

MC-TESTER results for decays of particle τ^- (PDG code 15).

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Results from **generator 1**.

Dataset: mc12.005107.pythia_Wtauhad.evgen.EVNT.v12000701
Testing tau- decays in W->tau->hadrons

- From directory:
/data/data2/atlas/users/ndavidso/testarea/13.0.30/MyTauValidationPackage/share
- Total number of analyzed decays: 149120
- Number of decay channels found: 50 + 8

Results from **generator 2**.

Dataset: mc12.005607.Zprime_tautau_pythia_SSM600.evgen.EVNT.v12003102
Testing tau- decays in Z'->tau tau

- From directory:
/data/data2/atlas/users/ndavidso/testarea/13.0.30/MyTauValidationPackage/share
- Total number of analyzed decays: 55696
- Number of decay channels found: 50 + 29

Found decay modes:

Decay channel	Branching Ratio \pm Rough Errors		Max. shape dif. param.
	Generator #1	Generator #2	
$\tau^- \rightarrow \pi^- \pi^0 \nu_\tau$	$0.6351 \pm 0.0206\%$	$1.6393 \pm 0.0543\%$	0.26299
$\tau^- \rightarrow \pi^- K_L^0 \nu_\tau$	$0.5767 \pm 0.0197\%$	$0.4004 \pm 0.0268\%$	0.00000
$\tau^- \rightarrow K^- \pi^0 \nu_\tau$	$0.5573 \pm 0.0193\%$	$0.4812 \pm 0.0294\%$	0.00000
$\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$	$0.5546 \pm 0.0193\%$	$0.3860 \pm 0.0263\%$	0.00000
$\tau^- \rightarrow K^- \nu_\tau$	$0.5070 \pm 0.0184\%$	$0.7379 \pm 0.0364\%$	0.00000
$\tau^- \rightarrow \pi^- \pi^0 \nu_\tau$	$28.2122 \pm 0.1375\%$	$23.4990 \pm 0.2054\%$	0.13444
$\tau^- \rightarrow \pi^- \pi^- \pi^+ \pi^0 \nu_\tau$	$7.0145 \pm 0.0686\%$	$3.5173 \pm 0.0795\%$	0.22988
$\tau^- \rightarrow \pi^- \pi^0 \pi^0 \nu_\tau$	$13.1438 \pm 0.0939\%$	$8.7924 \pm 0.1256\%$	0.28462
$\tau^- \rightarrow \pi^- \nu_\tau$	$6.4472 \pm 0.0658\%$	$10.2144 \pm 0.1354\%$	0.00000
$\tau^- \rightarrow \pi^- \pi^- \pi^+ \nu_\tau$	$12.9037 \pm 0.0930\%$	$7.2537 \pm 0.1141\%$	0.25389
$\tau^- \rightarrow K_S^0 \pi^- \pi^0 \nu_\tau$	$0.4097 \pm 0.0166\%$	$0.2226 \pm 0.0200\%$	0.05973
$\tau^- \rightarrow \pi^- K_L^0 \pi^0 \nu_\tau$	$0.4044 \pm 0.0165\%$	$0.2208 \pm 0.0199\%$	0.11714
$\tau^- \rightarrow \pi^- \gamma \nu_\tau$	$0.7283 \pm 0.0221\%$	$1.0252 \pm 0.0429\%$	0.00000
$\tau^- \rightarrow \pi^- \pi^0 \pi^0 \pi^0 \nu_\tau$	$1.5853 \pm 0.0326\%$	$1.0701 \pm 0.0438\%$	0.11726
$\tau^- \rightarrow \pi^- \pi^- \pi^+ \pi^0 \pi^0 \nu_\tau$	$0.2293 \pm 0.0124\%$	$0.4309 \pm 0.0278\%$	0.40235
$\tau^- \rightarrow K^- K^+ \pi^- \nu_\tau$	$0.2119 \pm 0.0119\%$	$0.3322 \pm 0.0244\%$	0.26623
$\tau^- \rightarrow K^- K_L^0 \pi^0 \nu_\tau$	$0.1348 \pm 0.0095\%$	$0.0664 \pm 0.0109\%$	0.12511
$\tau^- \rightarrow \pi^- \pi^0 \gamma \nu_\tau$	$0.1200 \pm 0.0090\%$	$0.1077 \pm 0.0139\%$	0.55538
$\tau^- \rightarrow K^- K_S^0 \pi^0 \nu_\tau$	$0.1113 \pm 0.0086\%$	$0.0664 \pm 0.0109\%$	0.00000
$\tau^- \rightarrow K_S^0 \pi^- K_L^0 \nu_\tau$	$0.1106 \pm 0.0086\%$	$0.0557 \pm 0.0100\%$	0.00000
$\tau^- \rightarrow \pi^- \pi^- \pi^- \pi^+ \pi^+ \nu_\tau$	$0.0832 \pm 0.0075\%$	$0.0557 \pm 0.0100\%$	0.23817
$\tau^- \rightarrow \pi^- \pi^- \pi^+ \pi^0 \pi^0 \pi^0 \nu_\tau$	$0.0811 \pm 0.0074\%$	$0.0790 \pm 0.0119\%$	0.24195
$\tau^- \rightarrow \pi^- \pi^0 \pi^0 \pi^0 \pi^0 \nu_\tau$	$0.0751 \pm 0.0071\%$	$0.1418 \pm 0.0160\%$	0.58857
$\tau^- \rightarrow K^- K_L^0 \nu_\tau$	$0.0704 \pm 0.0069\%$	$0.0808 \pm 0.0120\%$	0.00000
$\tau^- \rightarrow K^- K_S^0 \nu_\tau$	$0.0691 \pm 0.0068\%$	$0.0736 \pm 0.0115\%$	0.00000
$\tau^- \rightarrow K^- \pi^0 \pi^0 \nu_\tau$	$0.0664 \pm 0.0067\%$	$0.0162 \pm 0.0054\%$	0.00000
$\tau^- \rightarrow \pi^- \pi^- \pi^+ \gamma \nu_\tau$	$0.0597 \pm 0.0063\%$	$1.5046 \pm 0.0520\%$	0.01229
$\tau^- \rightarrow K_S^0 K_S^0 \pi^- \nu_\tau$	$0.0577 \pm 0.0062\%$	$0.0215 \pm 0.0062\%$	0.00000
$\tau^- \rightarrow \pi^- K_L^0 K_L^0 \nu_\tau$	$0.0510 \pm 0.0058\%$	$0.0215 \pm 0.0062\%$	0.00000
$\tau^- \rightarrow \pi^- \pi^- \pi^- \pi^+ \pi^+ \pi^0 \nu_\tau$	$0.0490 \pm 0.0057\%$	$0.0144 \pm 0.0051\%$	0.36704
$\tau^- \rightarrow \pi^- \pi^0 \pi^0 \gamma \nu_\tau$	$0.0483 \pm 0.0057\%$	$0.5889 \pm 0.0325\%$	0.00000
$\tau^- \rightarrow \nu_\tau \bar{\nu}_\mu \mu$	$0.0389 \pm 0.0051\%$	$15.7695 \pm 0.1683\%$	0.00000

$\tau^- \rightarrow \pi^- \gamma \mathcal{N}_\tau$	$0.0382 \pm 0.0051\%$	$0.0826 \pm 0.0122\%$	0.00000
$\tau^- \rightarrow \nu_\tau \bar{\nu}_e e^-$	$0.0295 \pm 0.0044\%$	$11.2701 \pm 0.1422\%$	0.00000
$\tau^- \rightarrow \pi^- \pi^- \pi^+ \pi^0 \gamma \mathcal{N}_\tau$	$0.0288 \pm 0.0044\%$	$0.5728 \pm 0.0321\%$	0.23404
$\tau^- \rightarrow K^- \gamma \mathcal{N}_\tau$	$0.0161 \pm 0.0033\%$	$0.0341 \pm 0.0078\%$	0.00000
$\tau^- \rightarrow \gamma \mathcal{N}_\tau \bar{\nu}_e e^-$	$0.0141 \pm 0.0031\%$	$5.3846 \pm 0.0983\%$	0.00000
$\tau^- \rightarrow K^- \pi^0 \gamma \mathcal{N}_\tau$	$0.0080 \pm 0.0023\%$	$0.0072 \pm 0.0036\%$	0.00000
$\tau^- \rightarrow K_S^0 \pi^- \gamma \mathcal{N}_\tau$	$0.0067 \pm 0.0021\%$	$0.0162 \pm 0.0054\%$	0.00000
$\tau^- \rightarrow \gamma \mathcal{N}_\tau \bar{\nu}_e e^-$	$0.0054 \pm 0.0019\%$	$1.2227 \pm 0.0469\%$	0.00000
$\tau^- \rightarrow \gamma \mathcal{N}_\tau \bar{\nu}_\mu \mu^-$	$0.0047 \pm 0.0018\%$	$1.6500 \pm 0.0544\%$	0.00000
$\tau^- \rightarrow \pi^- \gamma \mathcal{N}_\tau$	$0.0040 \pm 0.0016\%$	$0.0036 \pm 0.0025\%$	0.00000
$\tau^- \rightarrow \pi^- K_L^0 \gamma \mathcal{N}_\tau$	$0.0027 \pm 0.0013\%$	$0.0108 \pm 0.0044\%$	0.00000
$\tau^- \rightarrow \pi^- \pi^0 \pi^0 \pi^0 \gamma \mathcal{N}_\tau$	$0.0020 \pm 0.0012\%$	$0.0593 \pm 0.0103\%$	0.00000
$\tau^- \rightarrow \pi^- K_L^0 \pi^0 \gamma \mathcal{N}_\tau$	$0.0013 \pm 0.0009\%$	$0.0126 \pm 0.0048\%$	0.00000
$\tau^- \rightarrow K^- K^+ \pi^- \gamma \mathcal{N}_\tau$	$0.0007 \pm 0.0007\%$	$0.0144 \pm 0.0051\%$	0.00000
$\tau^- \rightarrow K_S^0 \pi^- \pi^0 \gamma \mathcal{N}_\tau$	$0.0007 \pm 0.0007\%$	$0.0251 \pm 0.0067\%$	0.00000
$\tau^- \rightarrow \pi^- \pi^- \pi^- \pi^+ \pi^+ \gamma \mathcal{N}_\tau$	$0.0007 \pm 0.0007\%$	$0.0180 \pm 0.0057\%$	0.00000
$\tau^- \rightarrow \pi^- \pi^- \pi^+ \gamma \mathcal{N}_\tau$	$0.0007 \pm 0.0007\%$	$0.1580 \pm 0.0168\%$	0.00000
$\tau^- \rightarrow \pi^- \pi^0 \gamma \mathcal{N}_\tau$	$0.0007 \pm 0.0007\%$	$0.0072 \pm 0.0036\%$	0.00000
Channels From First Generator Only:			
$\tau^- \rightarrow \gamma \tau^-$	$23.6548 \pm 0.1259\%$	-	-
$\tau^- \rightarrow K^- \pi^- \pi^+ \nu_\tau$	$0.7383 \pm 0.0223\%$	-	-
$\tau^- \rightarrow \gamma \tau^-$	$0.0872 \pm 0.0076\%$	-	-
$\tau^- \rightarrow \gamma \mathcal{N}_\tau$	$0.0027 \pm 0.0013\%$	-	-
$\tau^- \rightarrow K^- \pi^- \pi^+ \gamma \mathcal{N}_\tau$	$0.0027 \pm 0.0013\%$	-	-
$\tau^- \rightarrow K^- \gamma \mathcal{N}_\tau$	$0.0007 \pm 0.0007\%$	-	-
$\tau^- \rightarrow K^- K_L^0 \gamma \mathcal{N}_\tau$	$0.0007 \pm 0.0007\%$	-	-
$\tau^- \rightarrow K^- K_L^0 \pi^0 \gamma \mathcal{N}_\tau$	$0.0007 \pm 0.0007\%$	-	-
Channels From Second Generator Only:			
$\tau^- \rightarrow \gamma \mathcal{N}_\tau \bar{\nu}_e e^-$	-	$0.1706 \pm 0.01750\%$	-
$\tau^- \rightarrow \gamma \mathcal{N}_\tau \bar{\nu}_\mu \mu^-$	-	$0.0772 \pm 0.01177\%$	-
$\tau^- \rightarrow \pi^- \pi^- \pi^+ \pi^0 \pi^0 \gamma \mathcal{N}_\tau$	-	$0.0718 \pm 0.01136\%$	-
$\tau^- \rightarrow \pi^- \pi^- \pi^+ \pi^0 \gamma \mathcal{N}_\tau$	-	$0.0539 \pm 0.00983\%$	-
$\tau^- \rightarrow \pi^- \pi^0 \pi^0 \gamma \mathcal{N}_\tau$	-	$0.0305 \pm 0.00740\%$	-
$\tau^- \rightarrow K^- \pi^0 \pi^0 \pi^0 \nu_\tau$	-	$0.0251 \pm 0.00672\%$	-
$\tau^- \rightarrow \pi^- K_L^0 \pi^0 \pi^0 \nu_\tau$	-	$0.0180 \pm 0.00568\%$	-
$\tau^- \rightarrow K_S^0 \pi^- \pi^0 \pi^0 \nu_\tau$	-	$0.0180 \pm 0.00568\%$	-
$\tau^- \rightarrow \gamma \mathcal{N}_\tau \bar{\nu}_e e^-$	-	$0.0144 \pm 0.00508\%$	-
$\tau^- \rightarrow \pi^- \pi^- \pi^+ \pi^0 \pi^0 \pi^0 \gamma \mathcal{N}_\tau$	-	$0.0126 \pm 0.00475\%$	-
$\tau^- \rightarrow \pi^- \pi^- \pi^- \pi^+ \pi^+ \pi^0 \gamma \mathcal{N}_\tau$	-	$0.0090 \pm 0.00401\%$	-

$\tau^- \rightarrow \pi^- \pi^0 \pi^0 \pi^0 \gamma \nu_\tau$	-	$0.0090 \pm 0.00401 \%$	-
$\tau^- \rightarrow \pi^- \pi^- \pi^+ \pi^0 \pi^0 \gamma \nu_\tau$	-	$0.0072 \pm 0.00359 \%$	-
$\tau^- \rightarrow \pi^- \pi^- \pi^+ \gamma \nu_\tau$	-	$0.0072 \pm 0.00359 \%$	-
$\tau^- \rightarrow \gamma \gamma \gamma \nu_\tau \nu_e e^-$	-	$0.0054 \pm 0.00311 \%$	-
$\tau^- \rightarrow K^- \pi^0 \pi^0 \pi^0 \gamma \nu_\tau$	-	$0.0036 \pm 0.00254 \%$	-
$\tau^- \rightarrow K_S^0 K_S^0 \pi^- \gamma \nu_\tau$	-	$0.0036 \pm 0.00254 \%$	-
$\tau^- \rightarrow \pi^- \pi^- \pi^- \pi^+ \pi^+ \gamma \nu_\tau$	-	$0.0036 \pm 0.00254 \%$	-
$\tau^- \rightarrow \pi^- K_L^0 K_L^0 \gamma \nu_\tau$	-	$0.0036 \pm 0.00254 \%$	-
$\tau^- \rightarrow \pi^- \pi^0 \pi^0 \pi^0 \pi^0 \gamma \nu_\tau$	-	$0.0036 \pm 0.00254 \%$	-
$\tau^- \rightarrow K^- K_S^0 \gamma \nu_\tau$	-	$0.0018 \pm 0.00180 \%$	-
$\tau^- \rightarrow K^- \pi^0 \pi^0 \gamma \nu_\tau$	-	$0.0018 \pm 0.00180 \%$	-
$\tau^- \rightarrow K_S^0 \pi^- K_L^0 \gamma \nu_\tau$	-	$0.0018 \pm 0.00180 \%$	-
$\tau^- \rightarrow K^- K^+ \pi^- \gamma \nu_\tau$	-	$0.0018 \pm 0.00180 \%$	-
$\tau^- \rightarrow \gamma \gamma \gamma \gamma \nu_\tau \nu_e e^-$	-	$0.0018 \pm 0.00180 \%$	-
$\tau^- \rightarrow \pi^- \pi^- \pi^+ \pi^0 \nu_\tau e^+ e^-$	-	$0.0018 \pm 0.00180 \%$	-
$\tau^- \rightarrow \pi^- \nu_\tau \mu^+ \mu^-$	-	$0.0018 \pm 0.00180 \%$	-
$\tau^- \rightarrow \pi^- \pi^- \pi^- \pi^+ \pi^+ \pi^0 \gamma \nu_\tau$	-	$0.0018 \pm 0.00180 \%$	-
$\tau^- \rightarrow K^- K_S^0 \pi^0 \gamma \nu_\tau$	-	$0.0018 \pm 0.00180 \%$	-

Similarity coefficients: T1=61.239180 %, T2=10.874310 %

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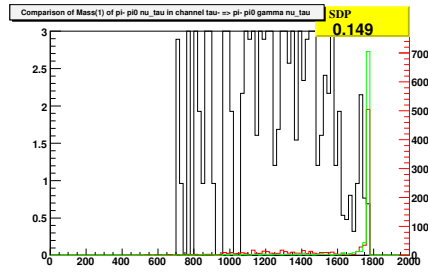
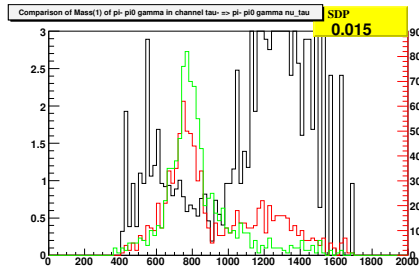
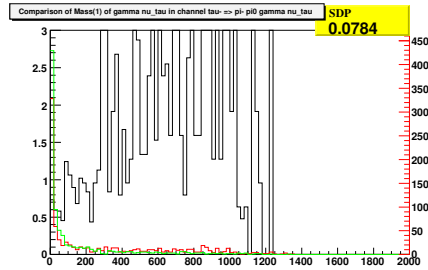
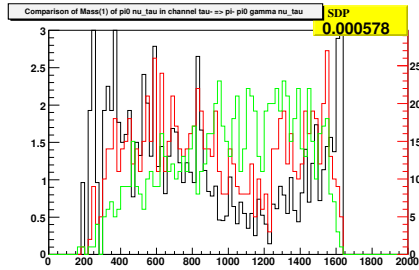
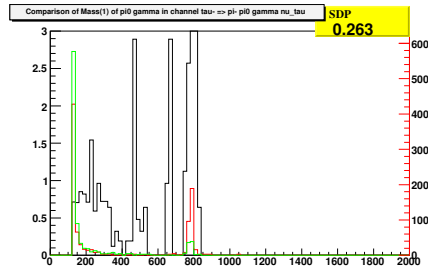
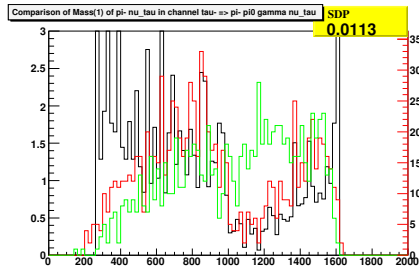
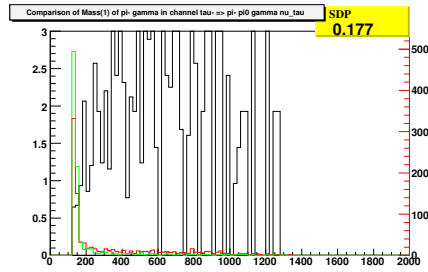
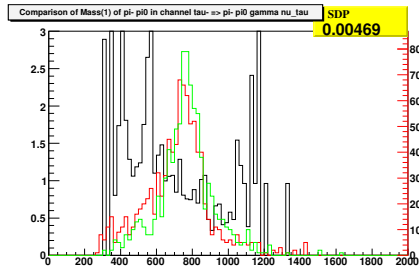
50 Decay Channel: $\tau^- \rightarrow \pi^- \pi^0 \gamma \gamma \nu_\tau$

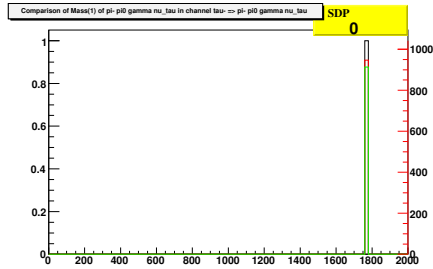
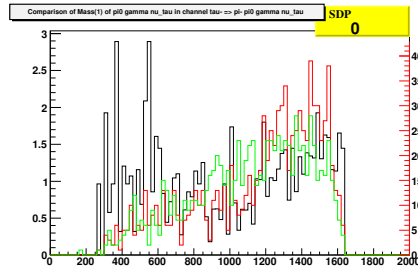
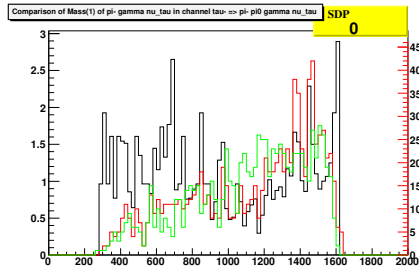
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1 Decay Channel: $\tau^- \rightarrow \pi^- \pi^0 \gamma \nu_\tau$

Number of events from generator 1: 947

Number of events from generator 2: 913

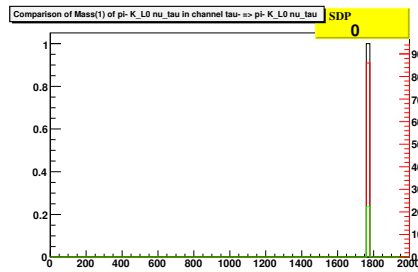
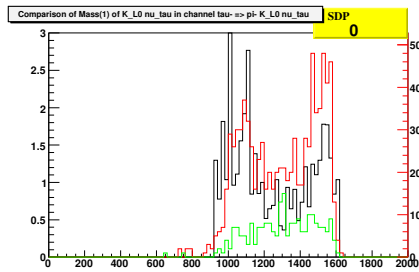
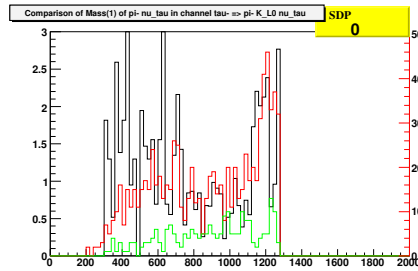
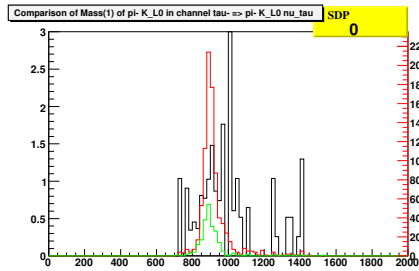




2 Decay Channel: $\tau^- \rightarrow \pi^- K_L^0 \nu_\tau$

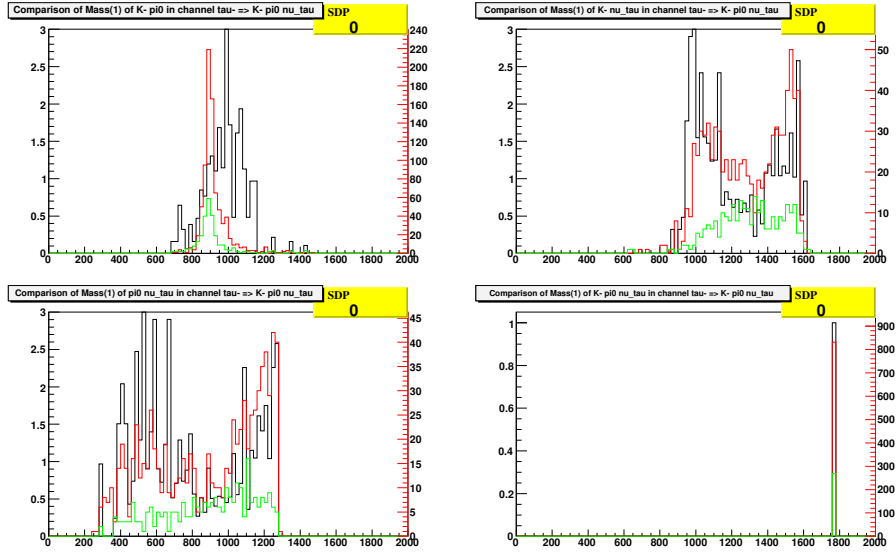
Number of events from generator 1: 860

Number of events from generator 2: 223



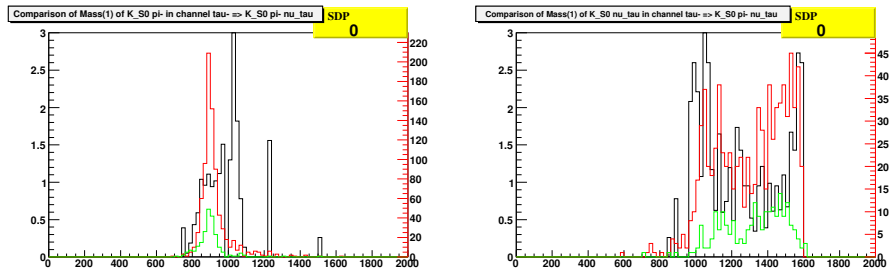
3 Decay Channel: $\tau^- \rightarrow K^- \pi^0 \nu_\tau$

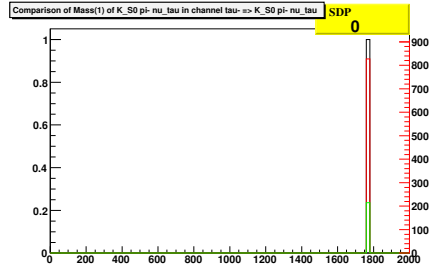
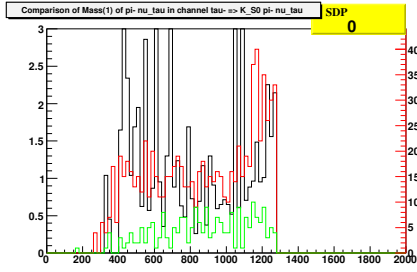
Number of events from generator 1: 831
 Number of events from generator 2: 268



4 Decay Channel: $\tau^- \rightarrow K_S^0 \pi^- \nu_\tau$

Number of events from generator 1: 827
 Number of events from generator 2: 215

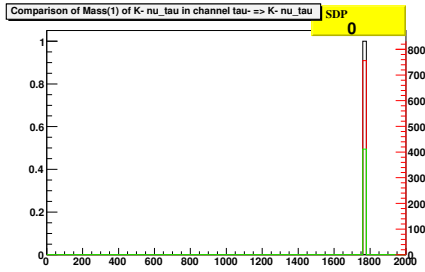




5 Decay Channel: $\tau^- \rightarrow K^- \nu_\tau$

Number of events from generator 1: 756

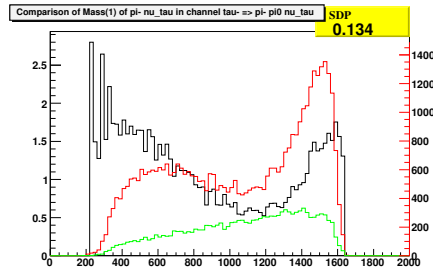
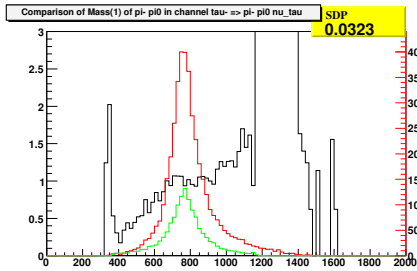
Number of events from generator 2: 411

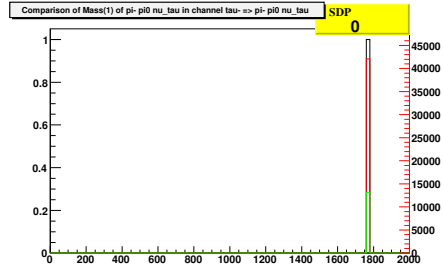
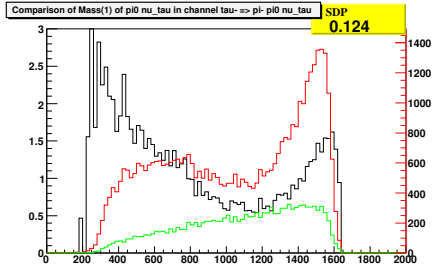


6 Decay Channel: $\tau^- \rightarrow \pi^- \pi^0 \nu_\tau$

Number of events from generator 1: 42070

Number of events from generator 2: 13088

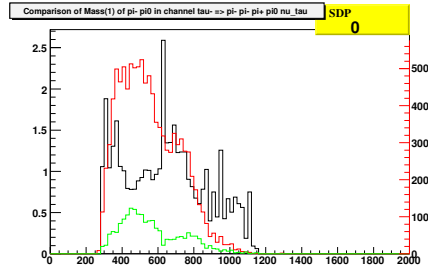
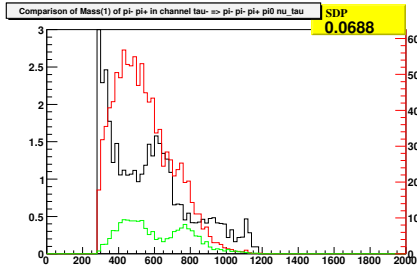
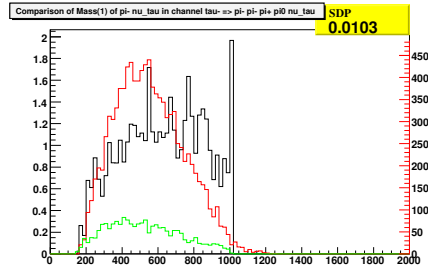
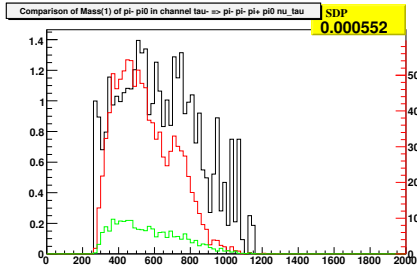
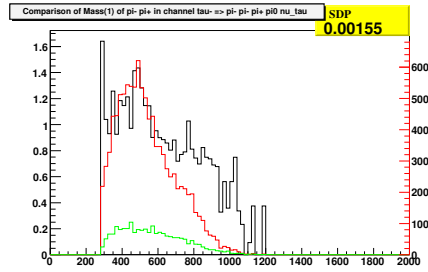
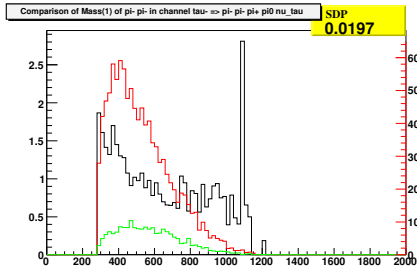


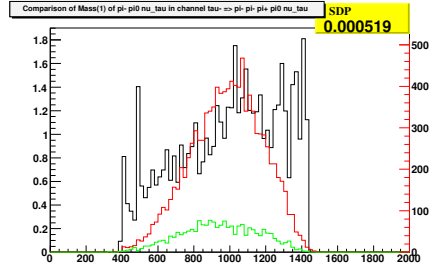
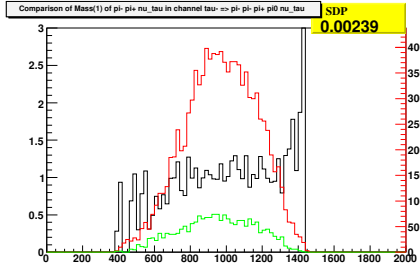
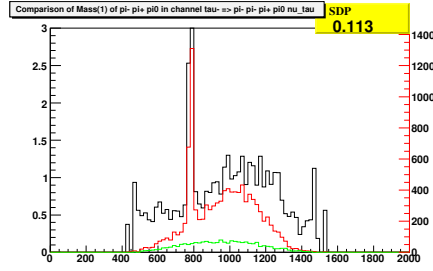
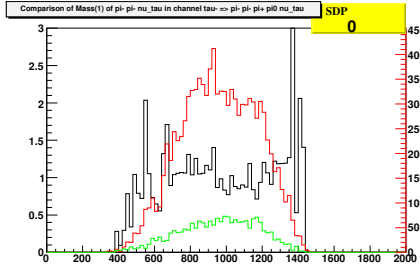
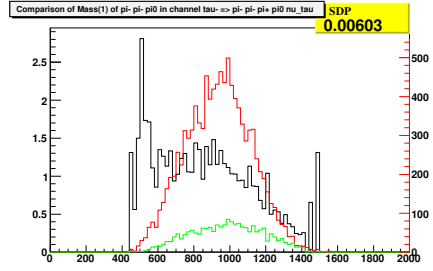
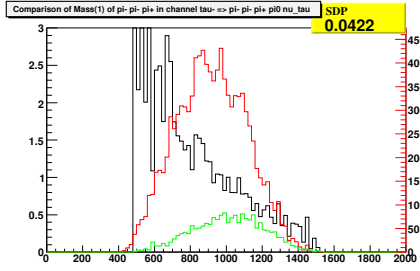
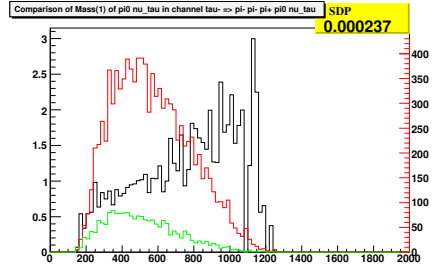
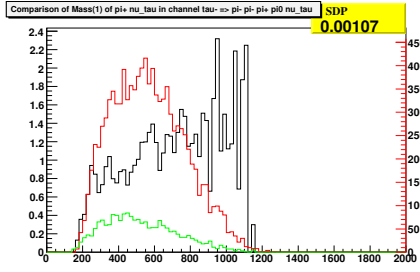
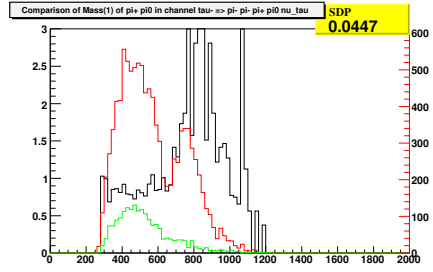
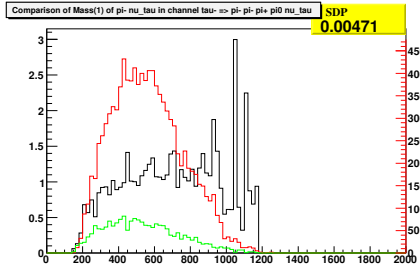


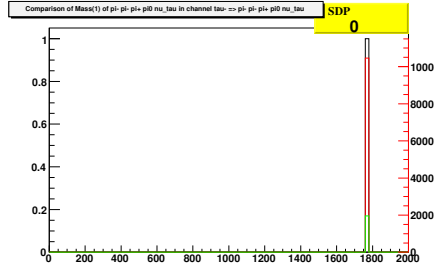
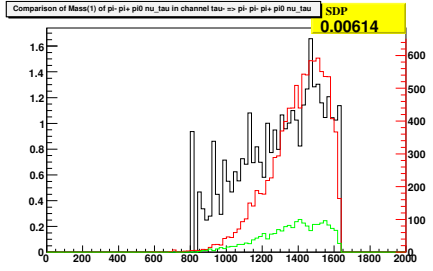
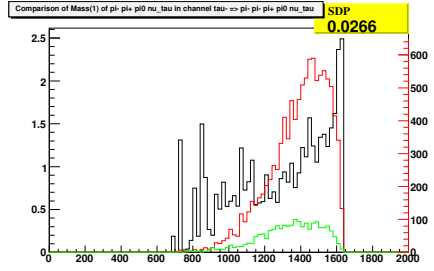
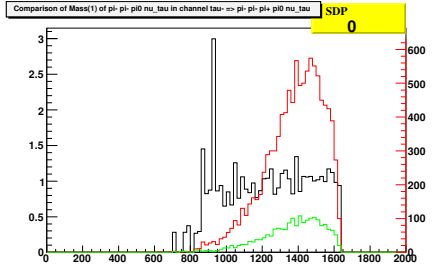
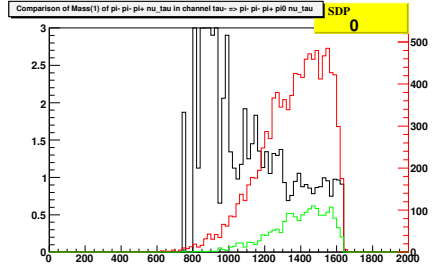
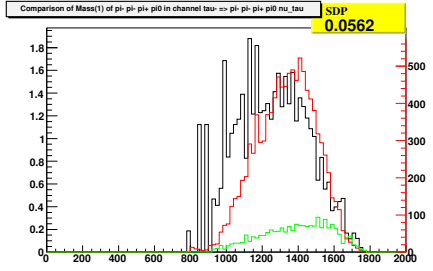
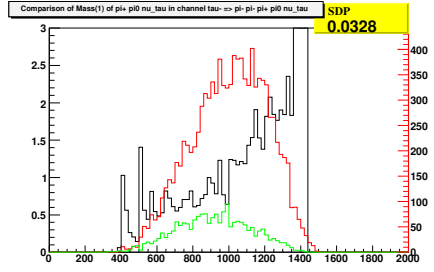
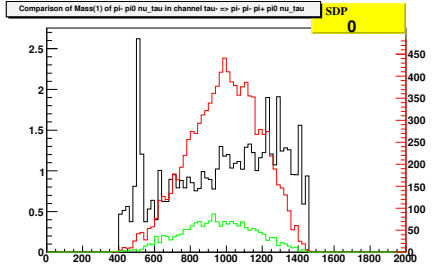
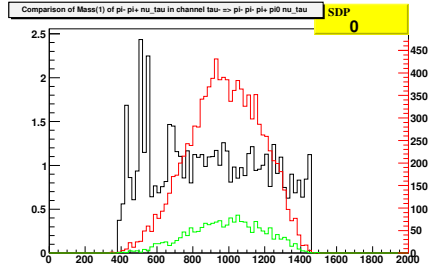
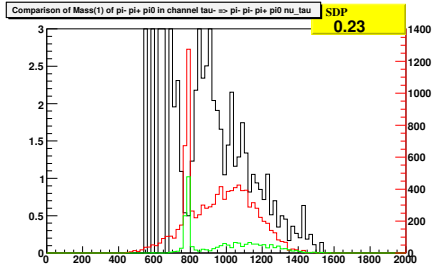
7 Decay Channel: $\tau^- \rightarrow \pi^- \pi^- \pi^+ \pi^0 \nu_\tau$

Number of events from generator 1: 10460

Number of events from generator 2: 1959



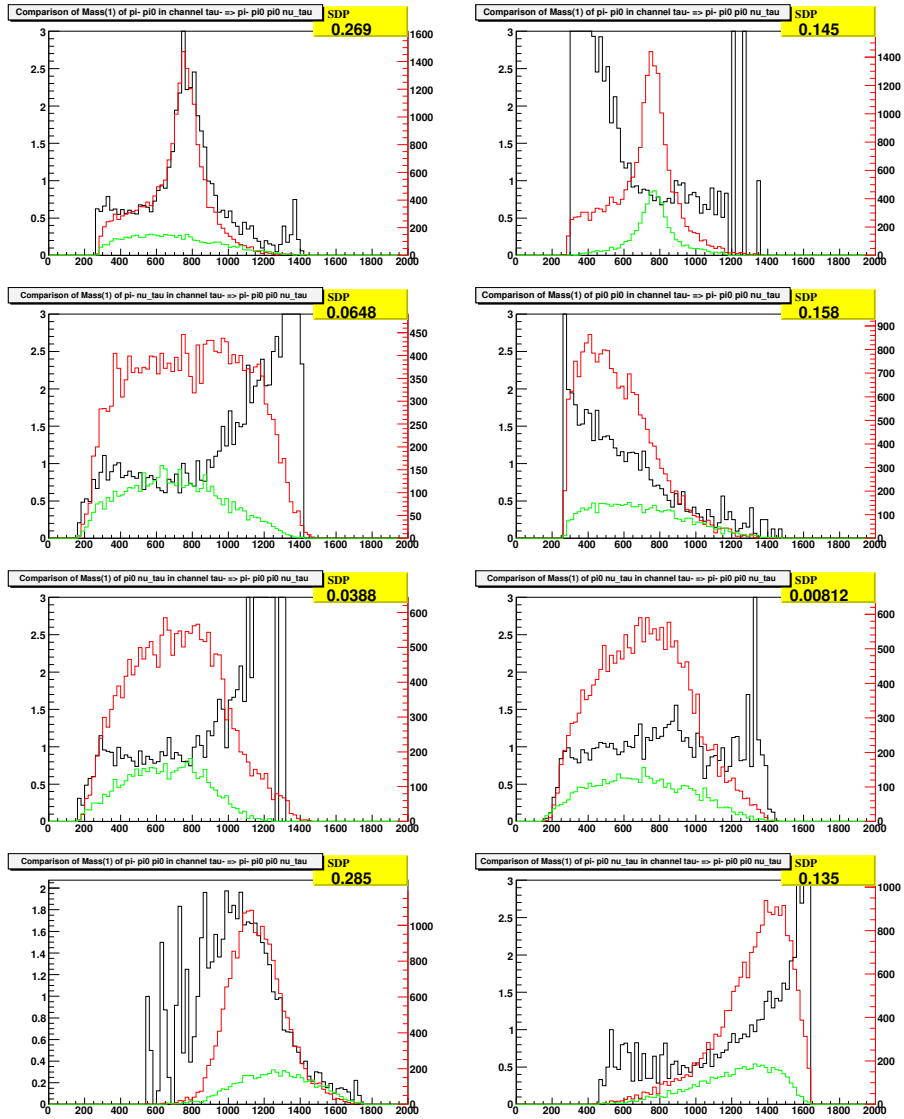


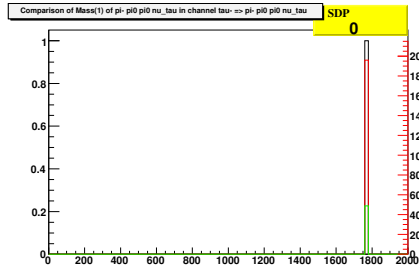
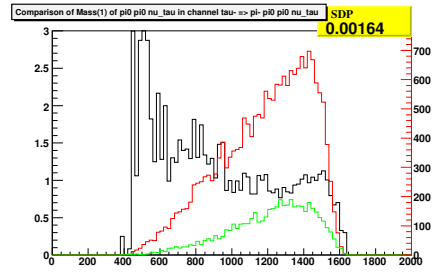
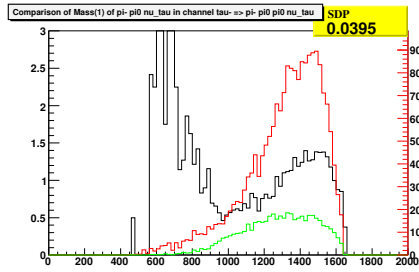


8 Decay Channel: $\tau^- \rightarrow \pi^- \pi^0 \pi^0 \nu_\tau$

Number of events from generator 1: 19600

Number of events from generator 2: 4897

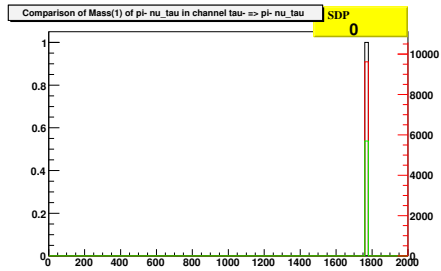




9 Decay Channel: $\tau^- \rightarrow \pi^- \nu_\tau$

Number of events from generator 1: 9614

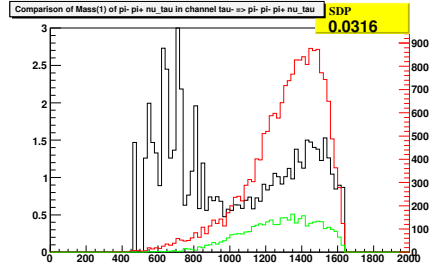
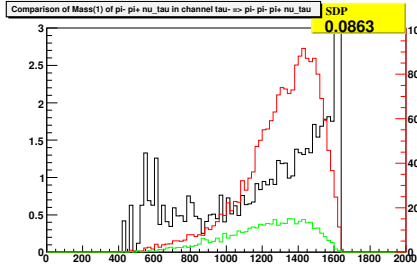
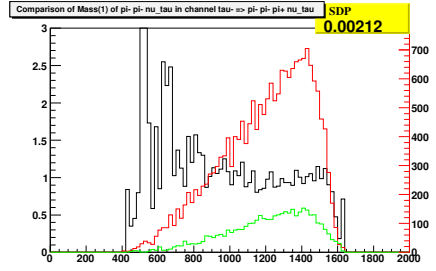
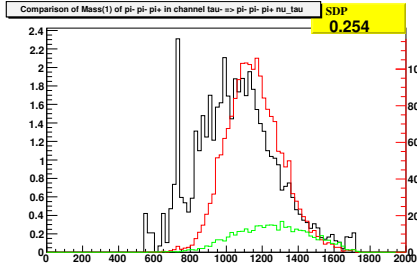
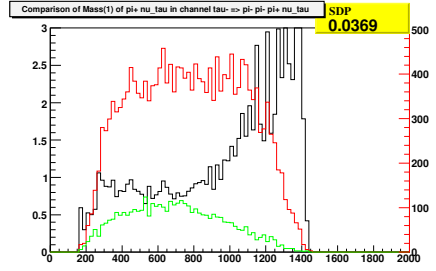
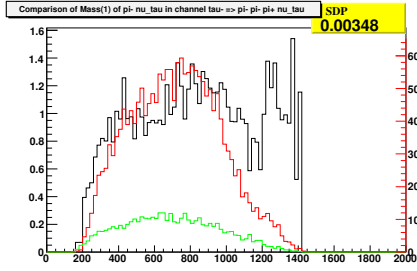
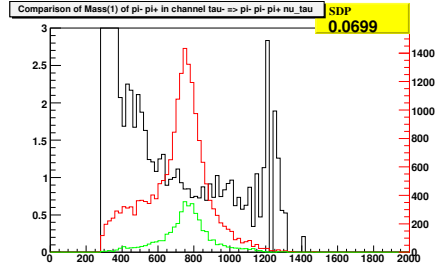
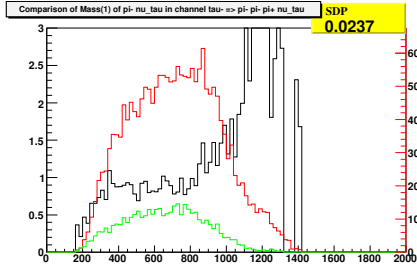
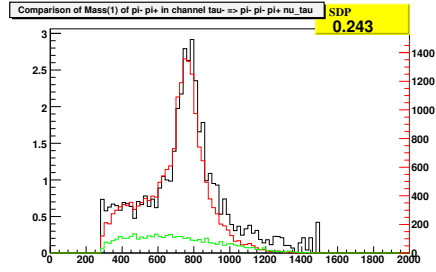
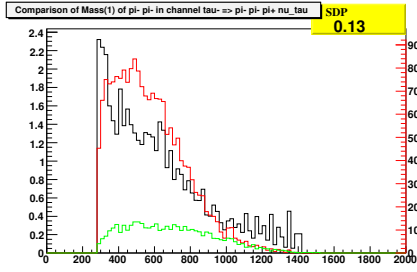
Number of events from generator 2: 5689

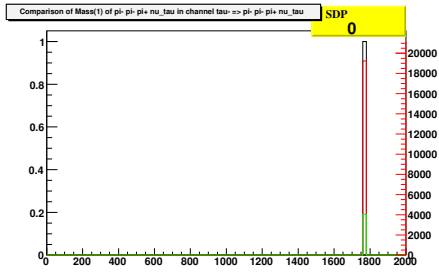


10 Decay Channel: $\tau^- \rightarrow \pi^- \pi^- \pi^+ \nu_\tau$

Number of events from generator 1: 19242

Number of events from generator 2: 4040

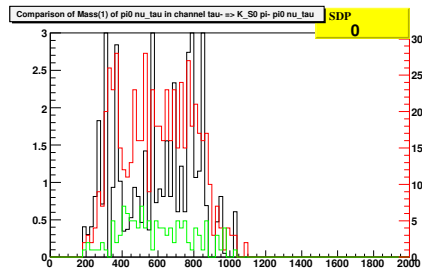
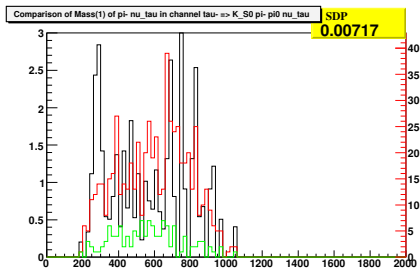
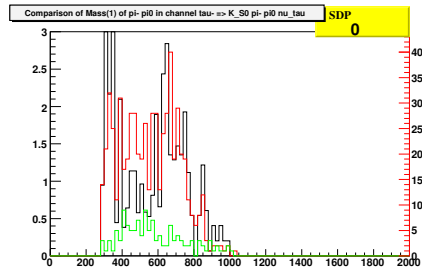
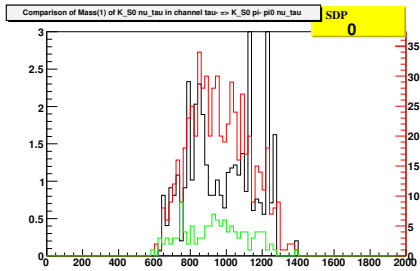
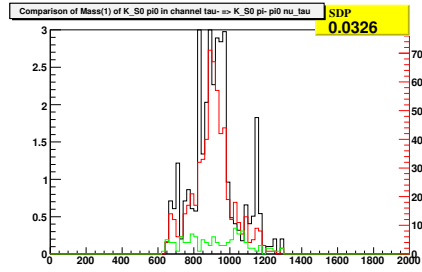
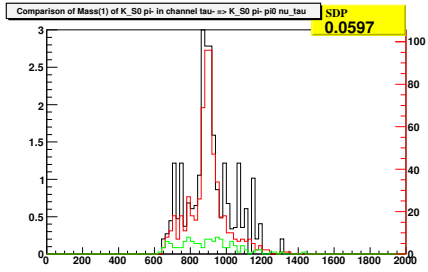


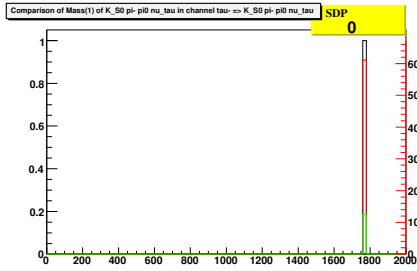
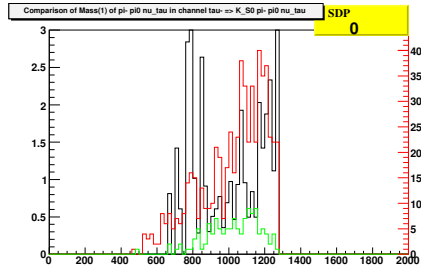
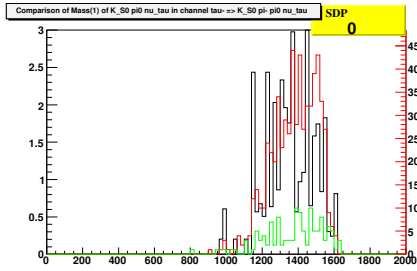
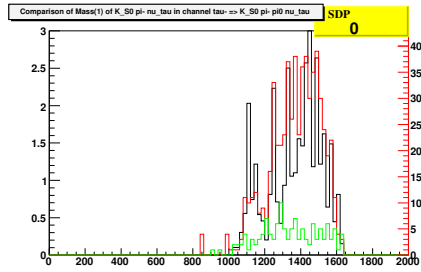
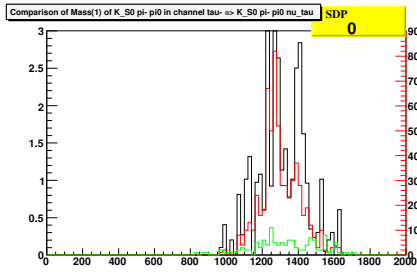


11 Decay Channel: $\tau^- \rightarrow K_S^0 \pi^- \pi^0 \nu_\tau$

Number of events from generator 1: 611

Number of events from generator 2: 124

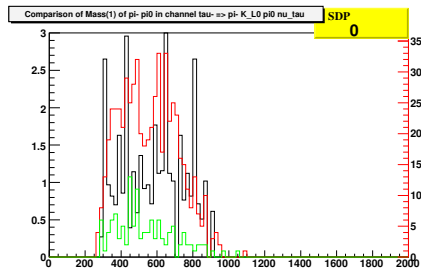
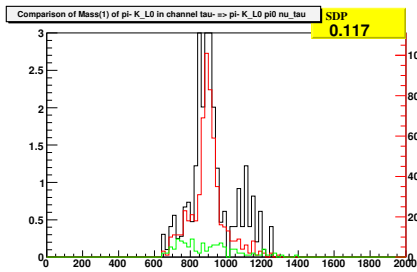


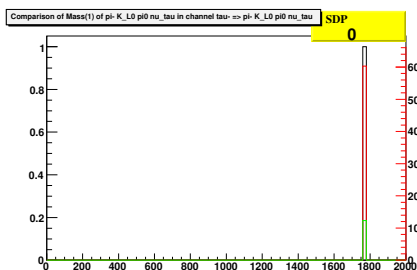
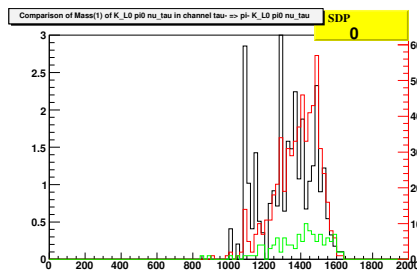
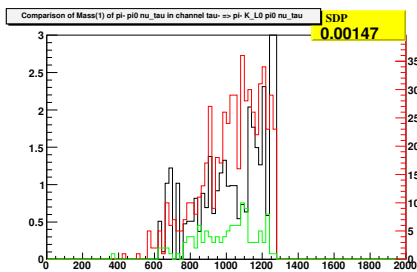
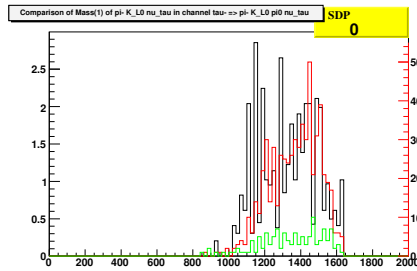
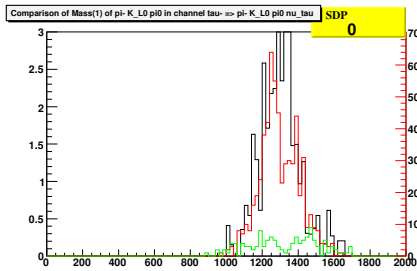
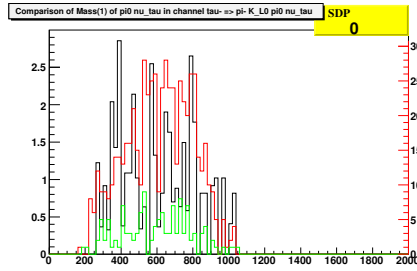
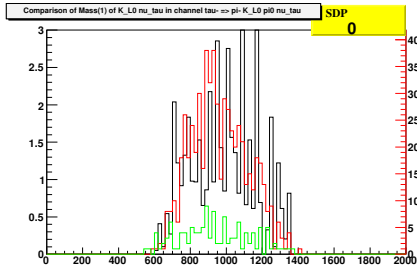
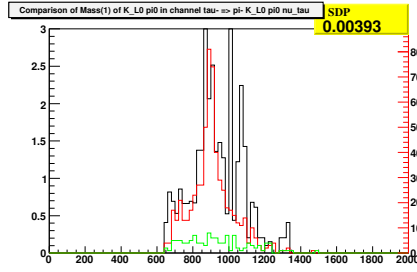
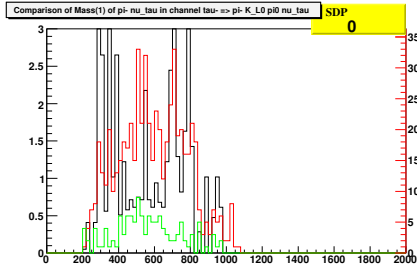


12 Decay Channel: $\tau^- \rightarrow \pi^- K_L^0 \pi^0 \nu_\tau$

Number of events from generator 1: 603

Number of events from generator 2: 123

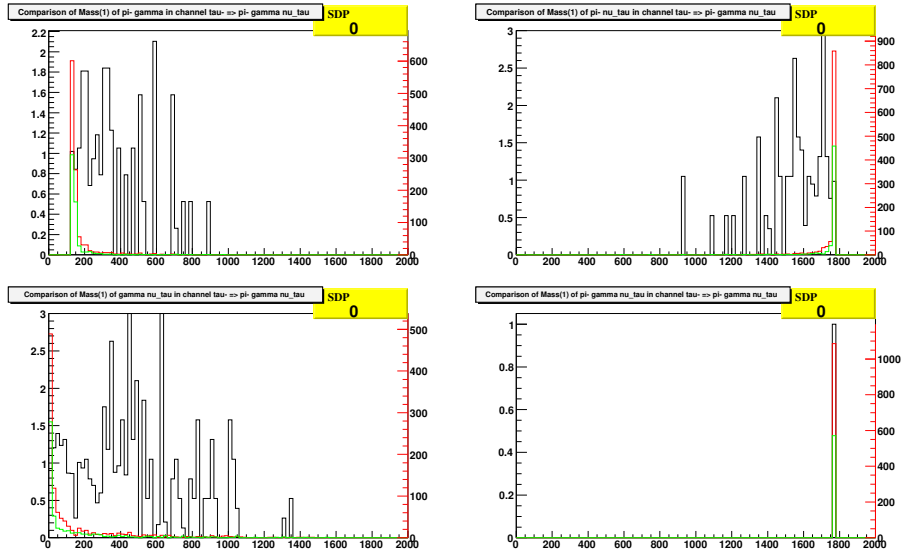




13 Decay Channel: $\tau^- \rightarrow \pi^- \gamma \nu_\tau$

Number of events from generator 1: 1086

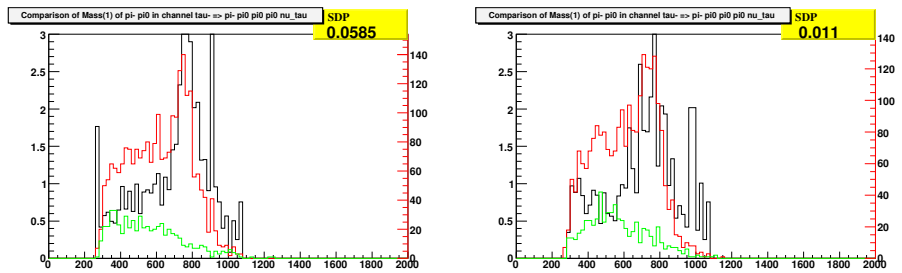
Number of events from generator 2: 571

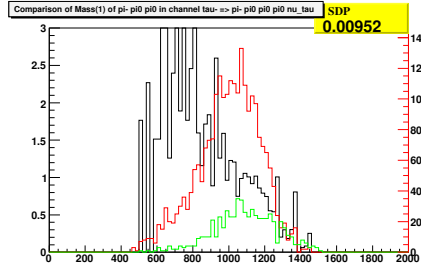
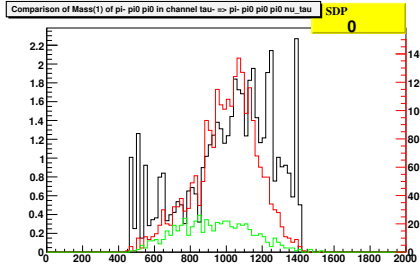
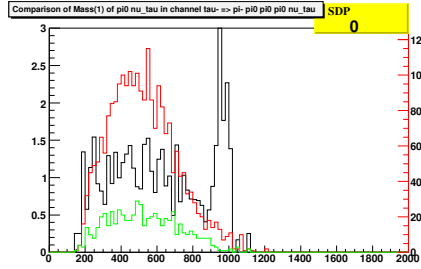
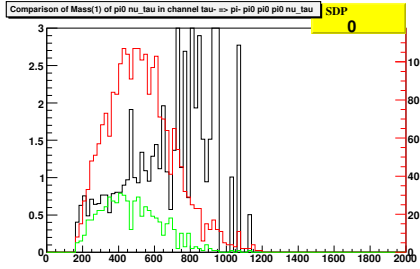
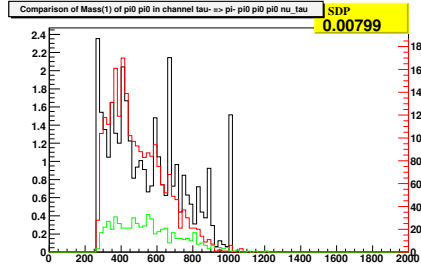
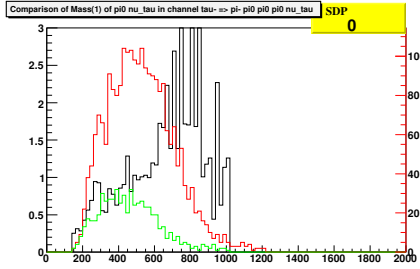
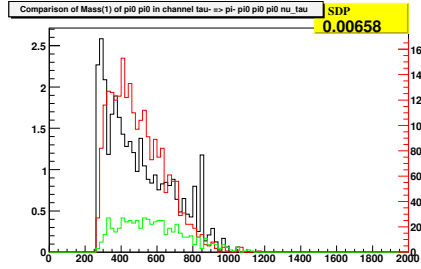
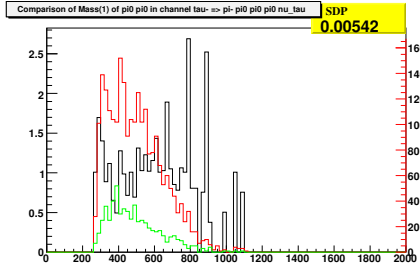
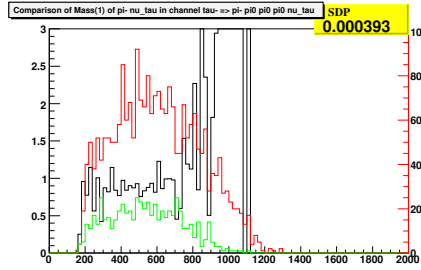
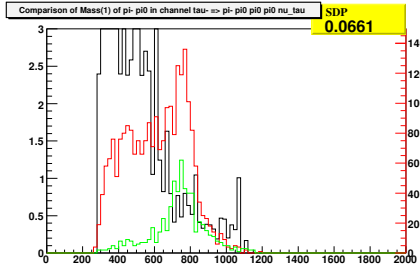


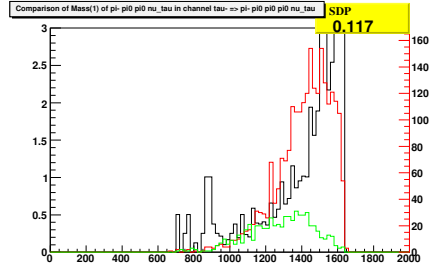
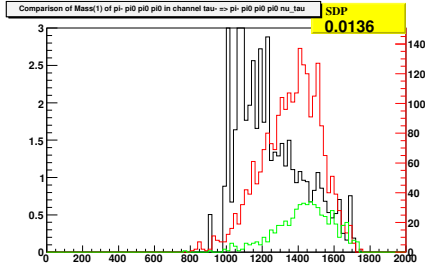
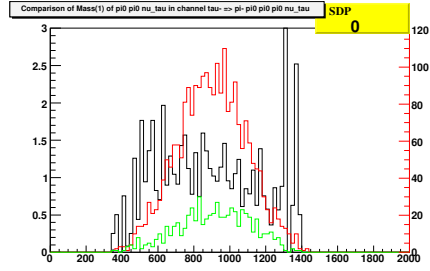
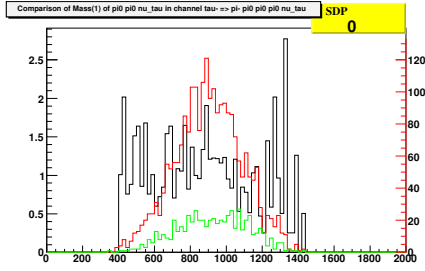
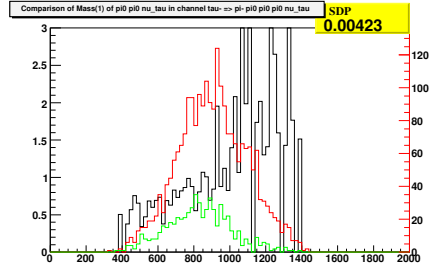
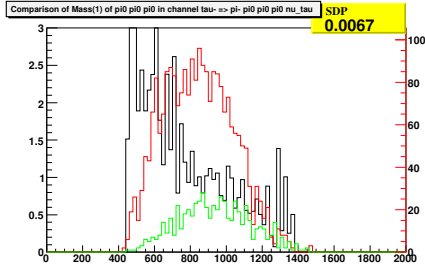
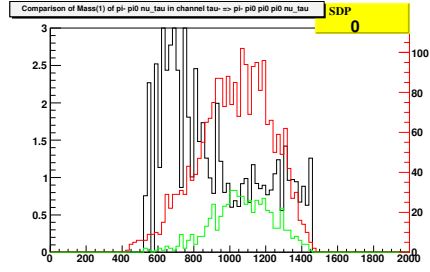
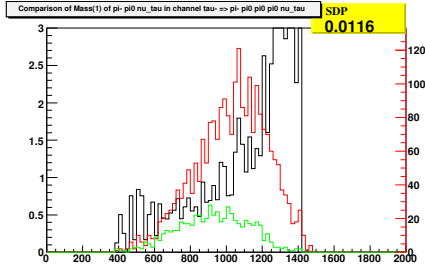
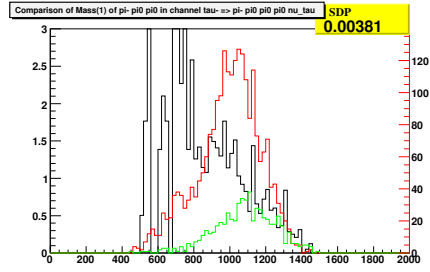
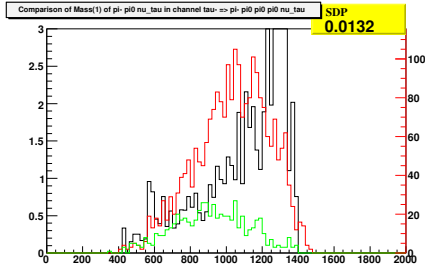
14 Decay Channel: $\tau^- \rightarrow \pi^- \pi^0 \pi^0 \pi^0 \nu_\tau$

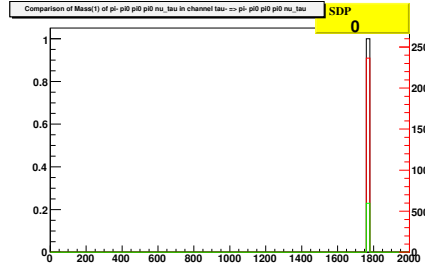
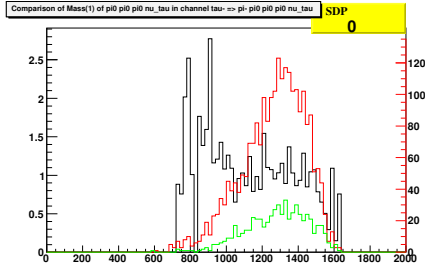
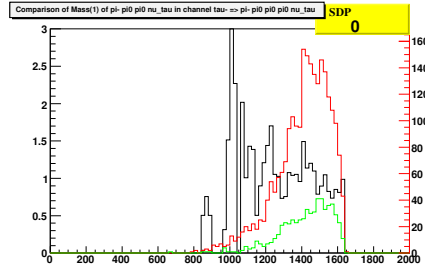
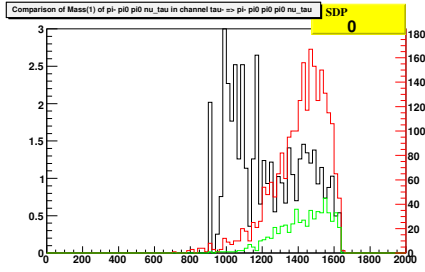
Number of events from generator 1: 2364

Number of events from generator 2: 596





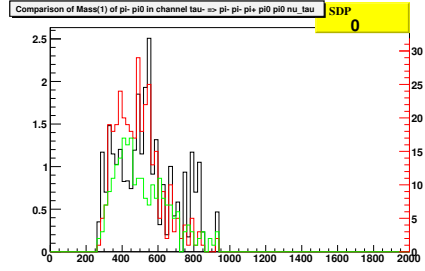
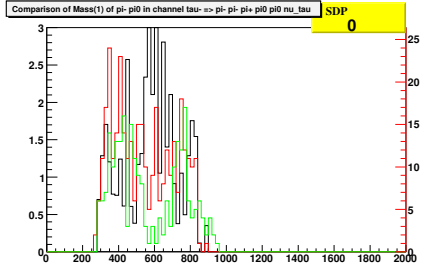
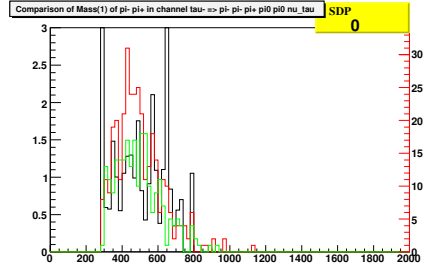
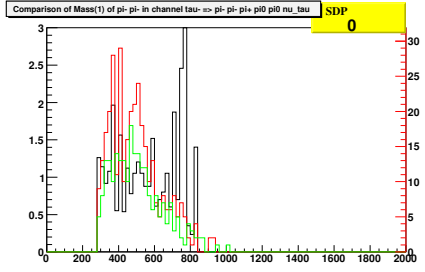


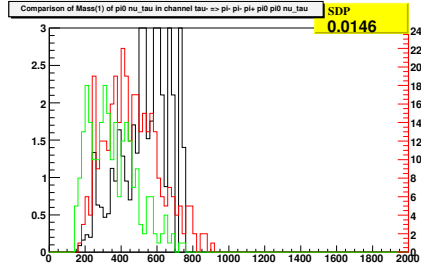
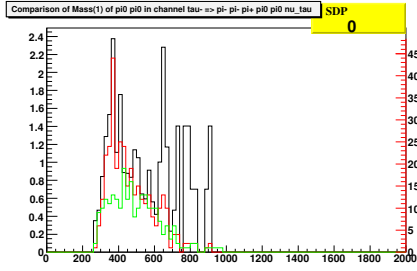
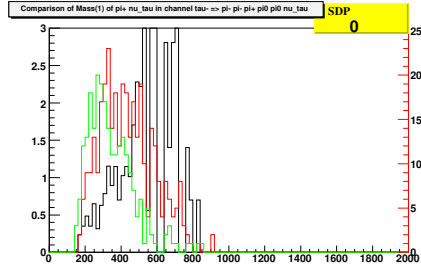
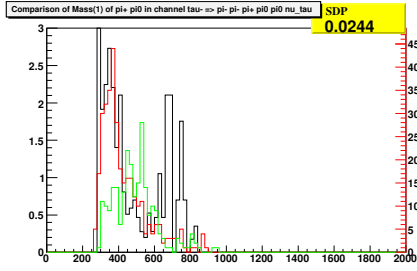
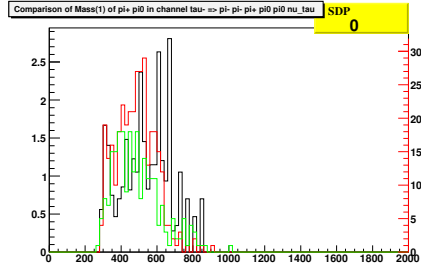
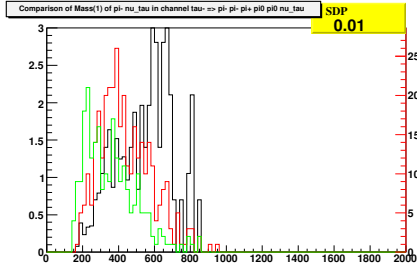
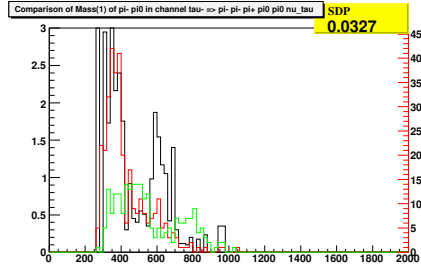
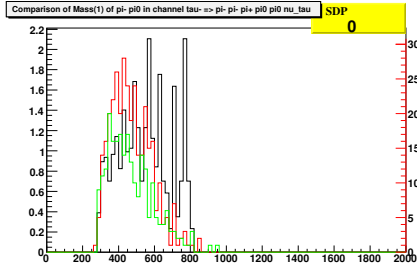
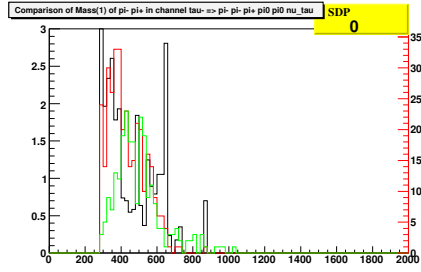
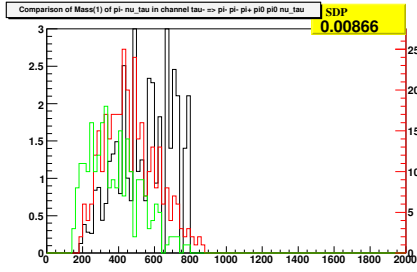


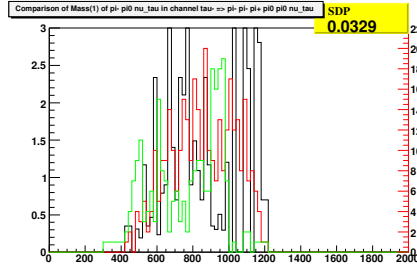
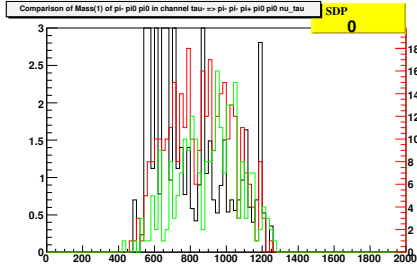
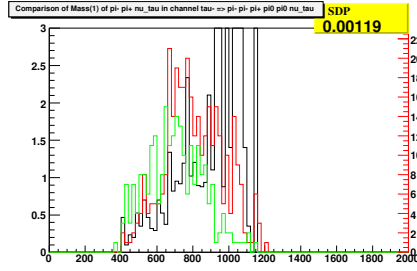
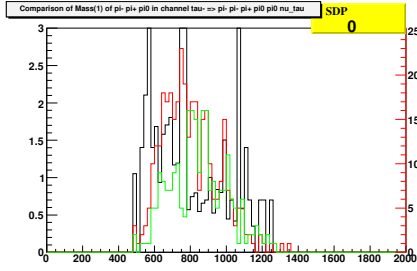
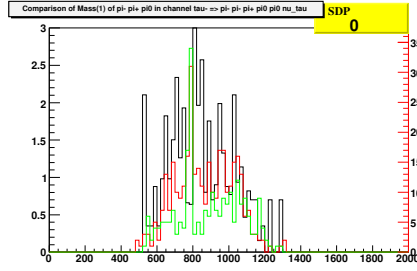
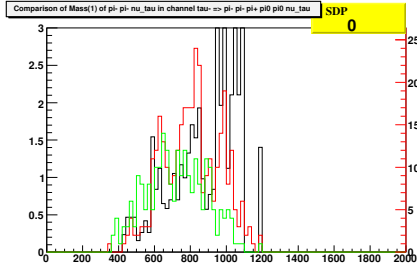
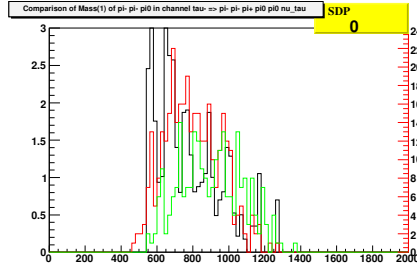
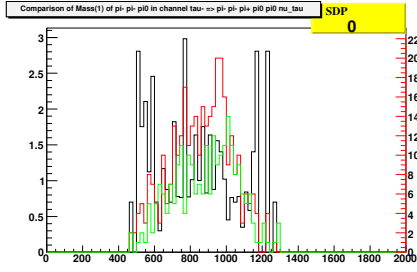
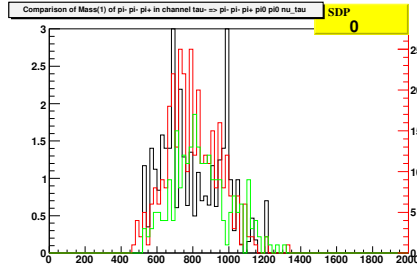
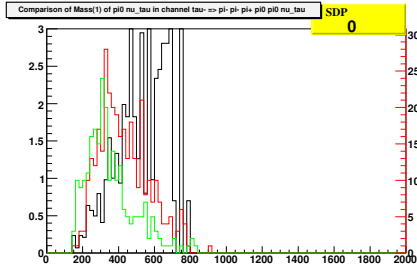
15 Decay Channel: $\tau^- \rightarrow \pi^- \pi^- \pi^+ \pi^0 \pi^0 \nu_\tau$

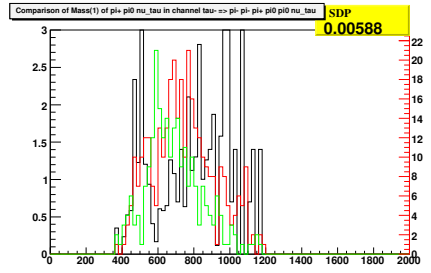
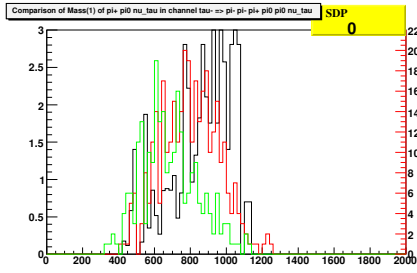
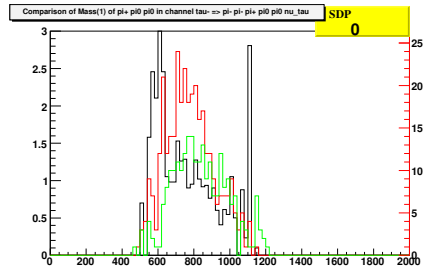
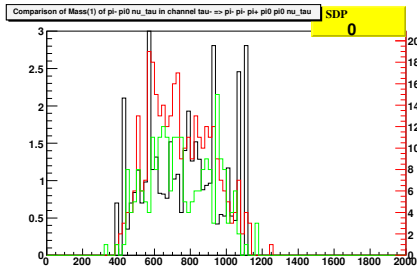
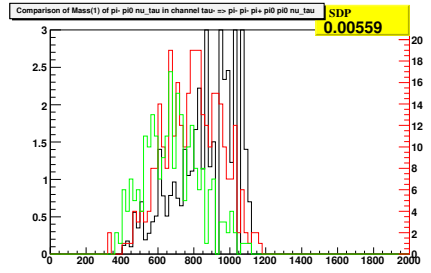
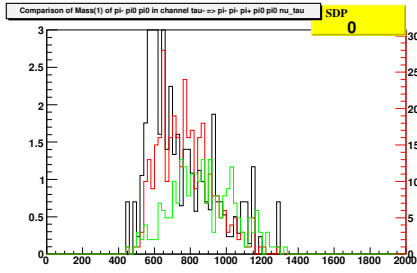
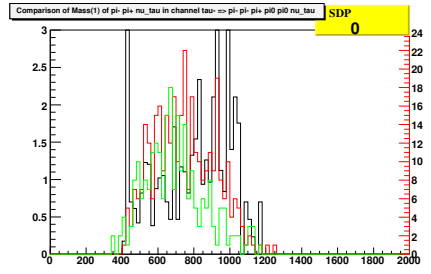
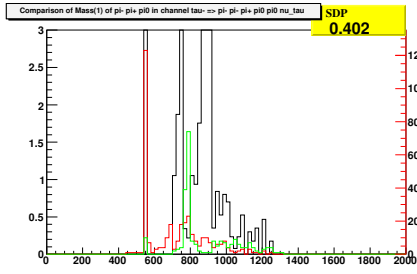
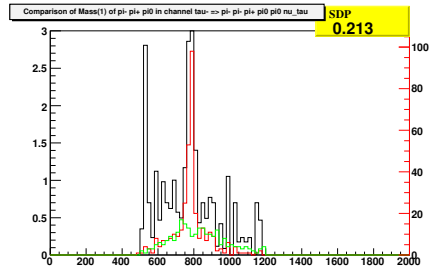
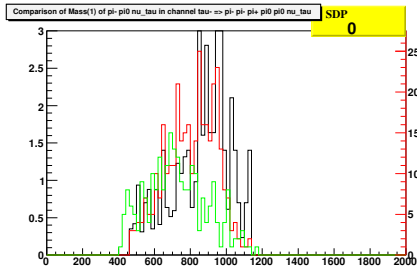
Number of events from generator 1: 342

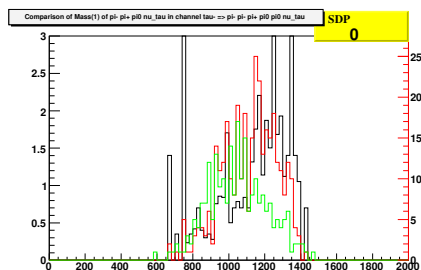
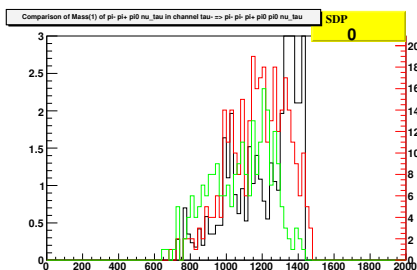
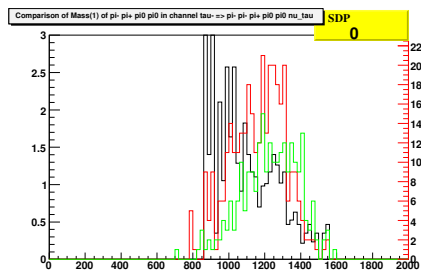
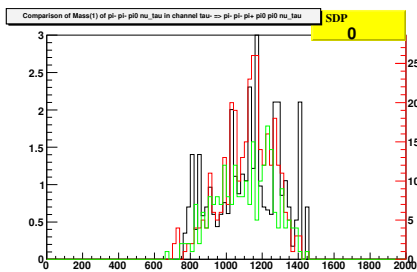
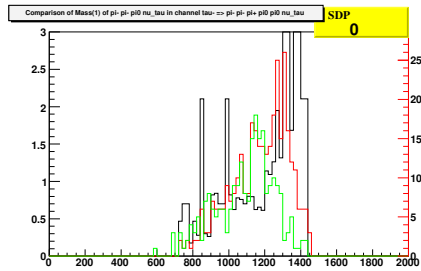
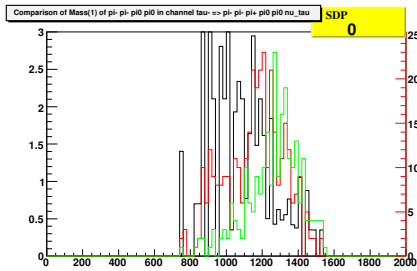
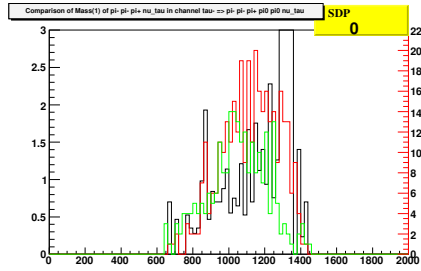
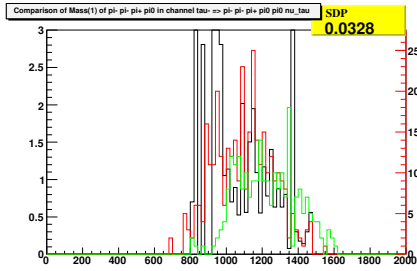
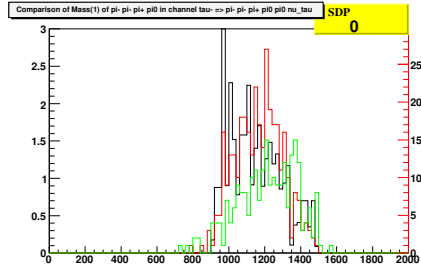
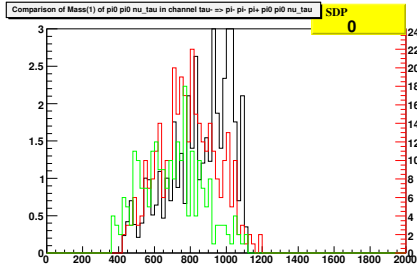
Number of events from generator 2: 240

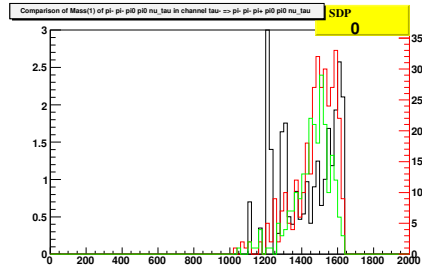
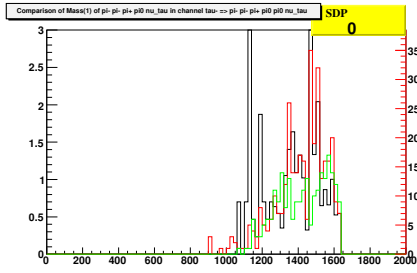
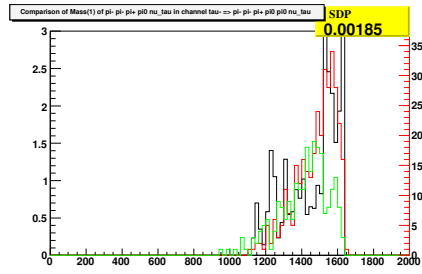
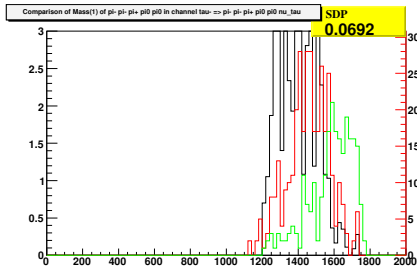
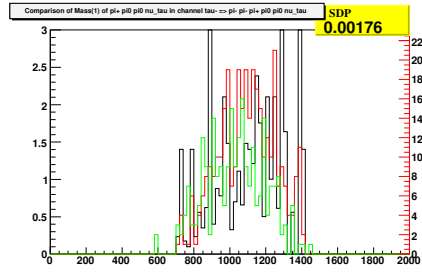
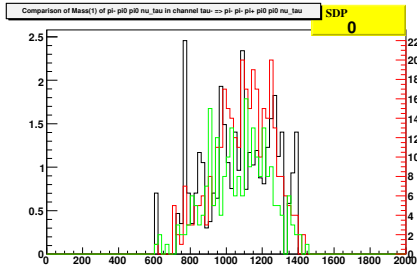
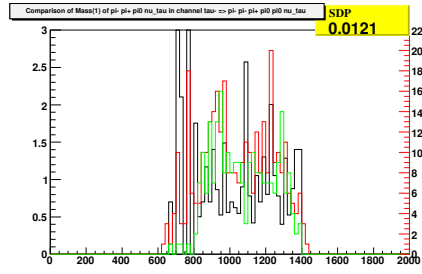
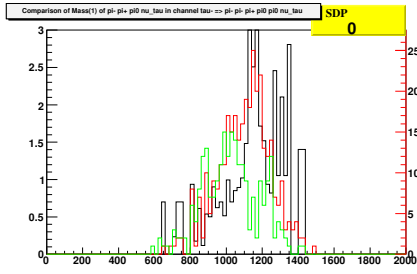
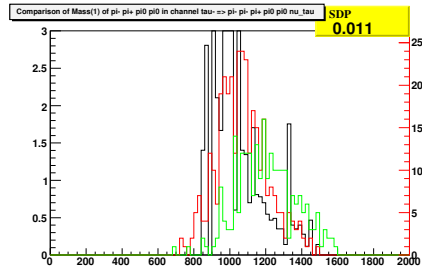
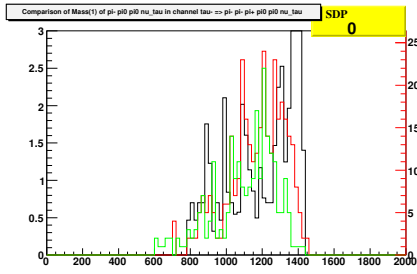


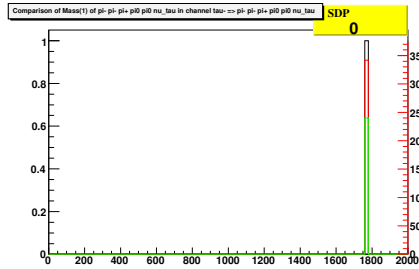
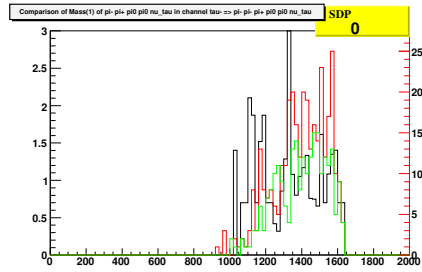
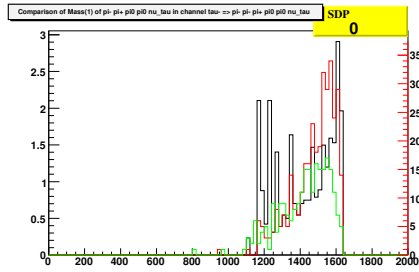








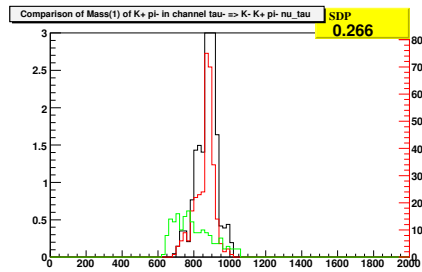
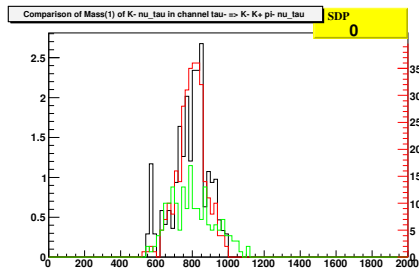
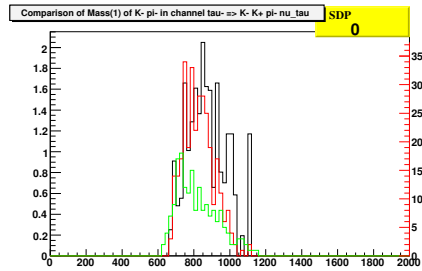
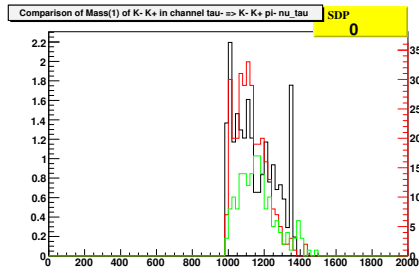


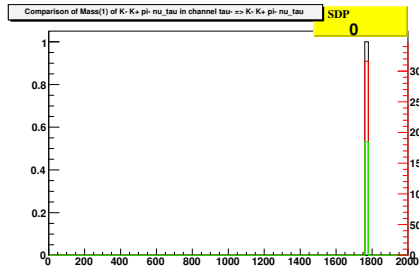
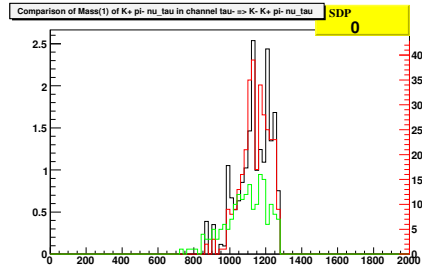
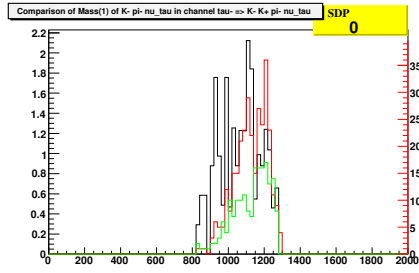
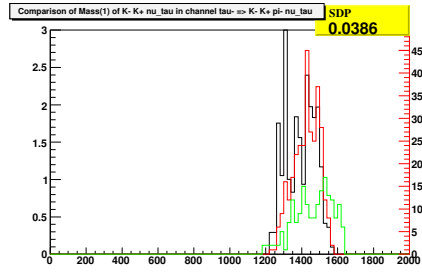
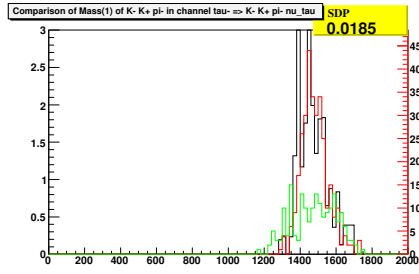
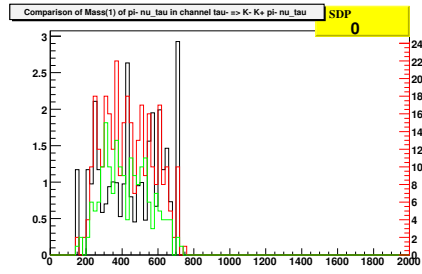
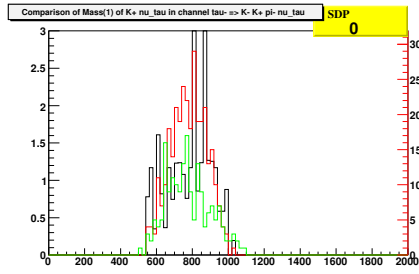


16 Decay Channel: $\tau^- \rightarrow K^- K^+ \pi^- \nu_\tau$

Number of events from generator 1: 316

Number of events from generator 2: 185

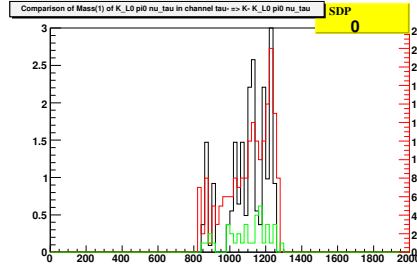
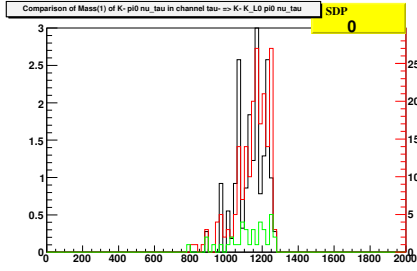
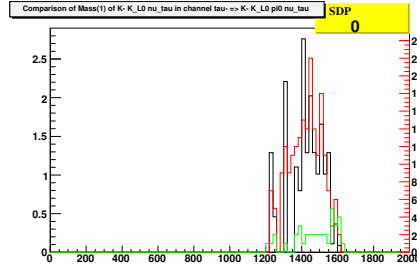
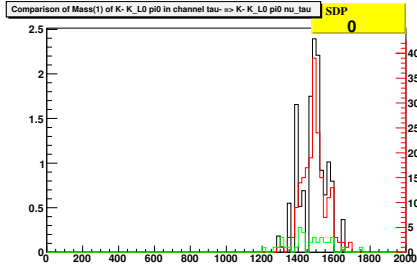
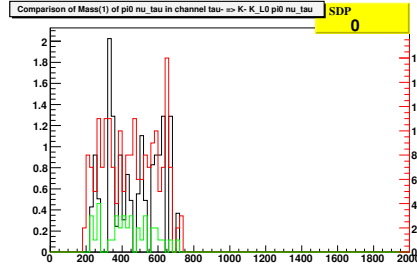
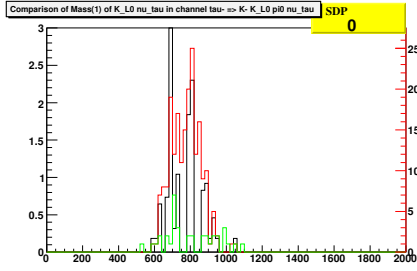
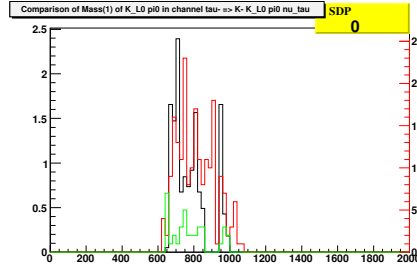
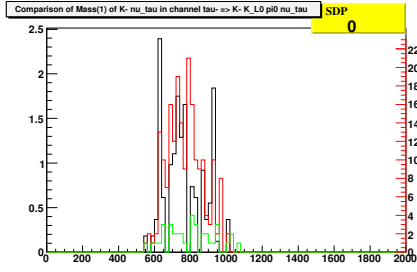
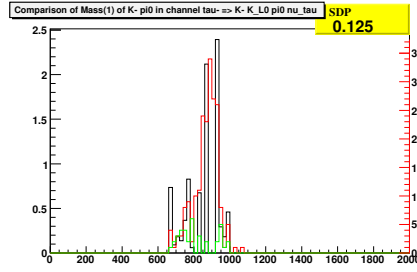
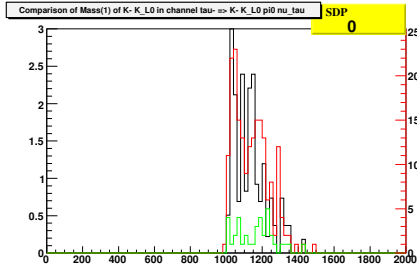


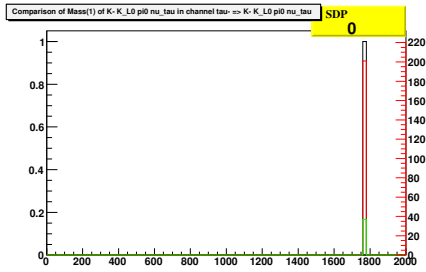


17 Decay Channel: $\tau^- \rightarrow K^- K_L^0 \pi^0 \nu_\tau$

Number of events from generator 1: 201

Number of events from generator 2: 37

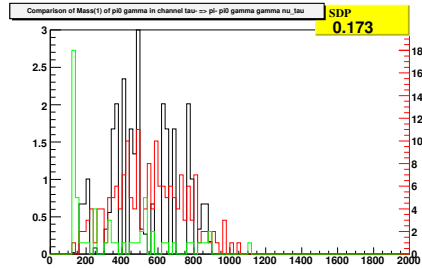
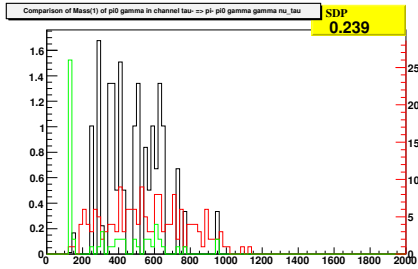
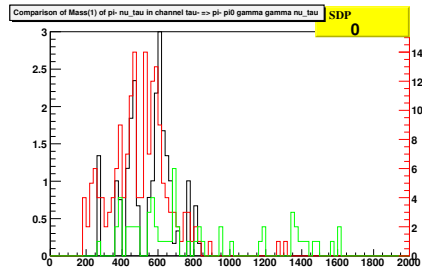
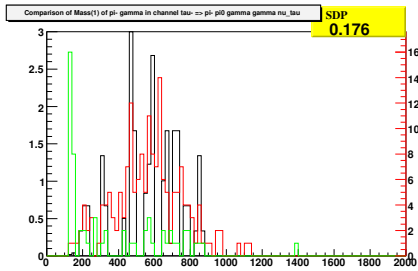
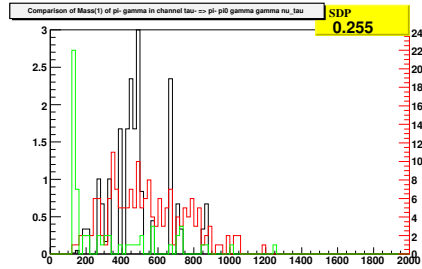
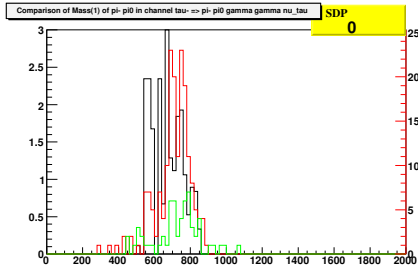


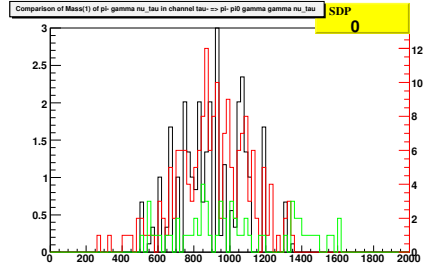
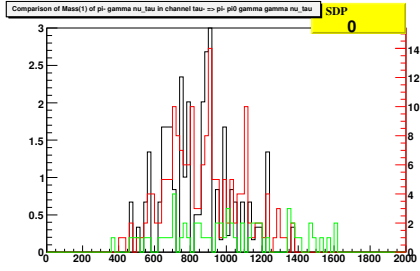
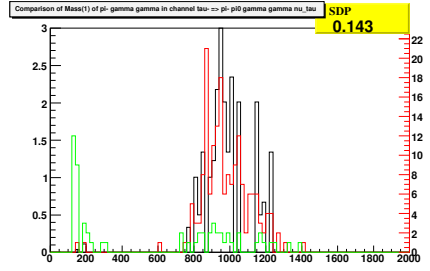
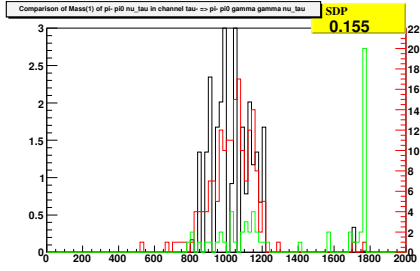
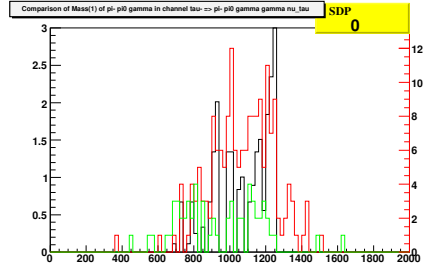
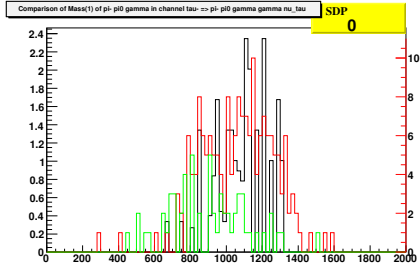
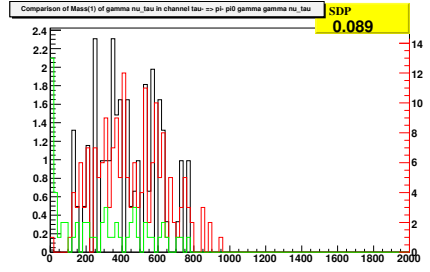
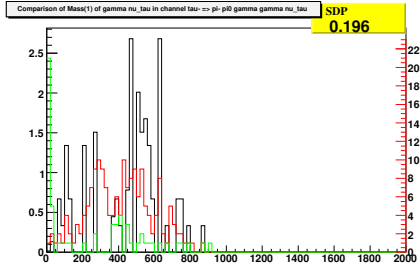
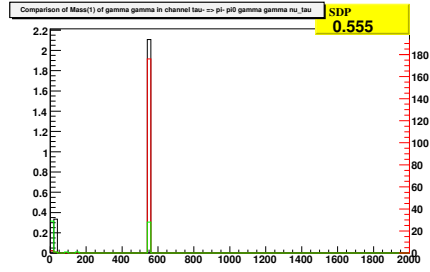
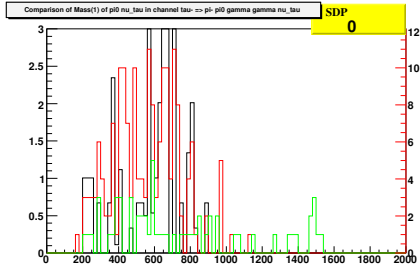


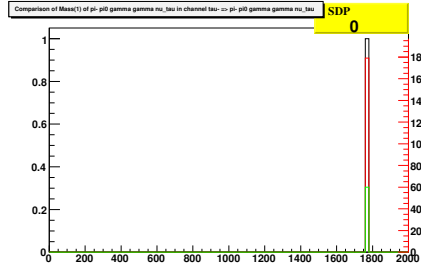
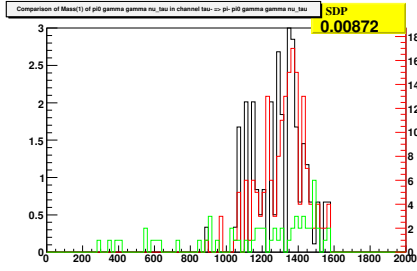
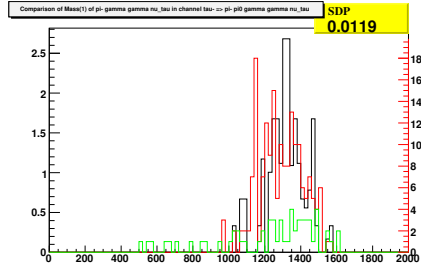
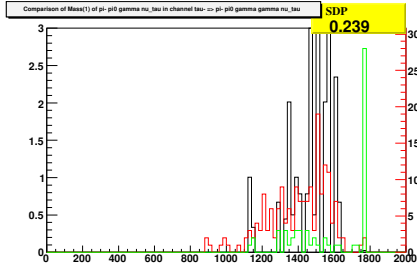
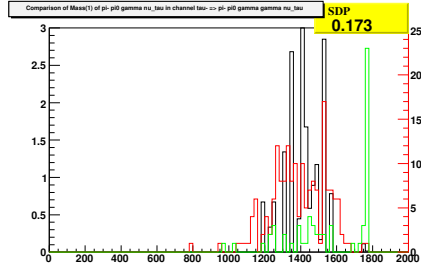
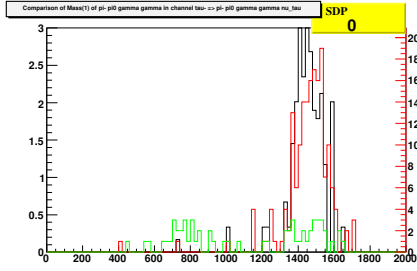
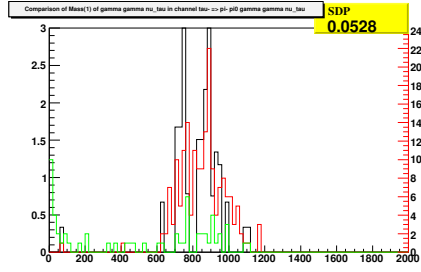
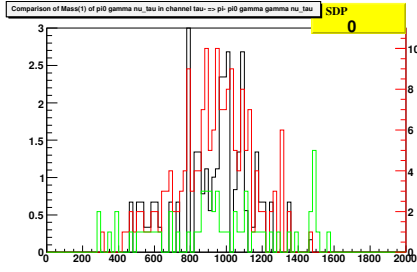
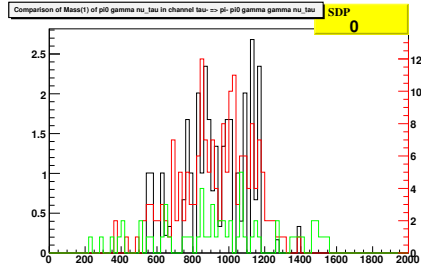
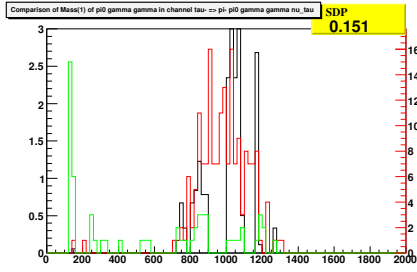
18 Decay Channel: $\tau^- \rightarrow \pi^- \pi^0 \gamma \nu_\tau$

Number of events from generator 1: 179

Number of events from generator 2: 60



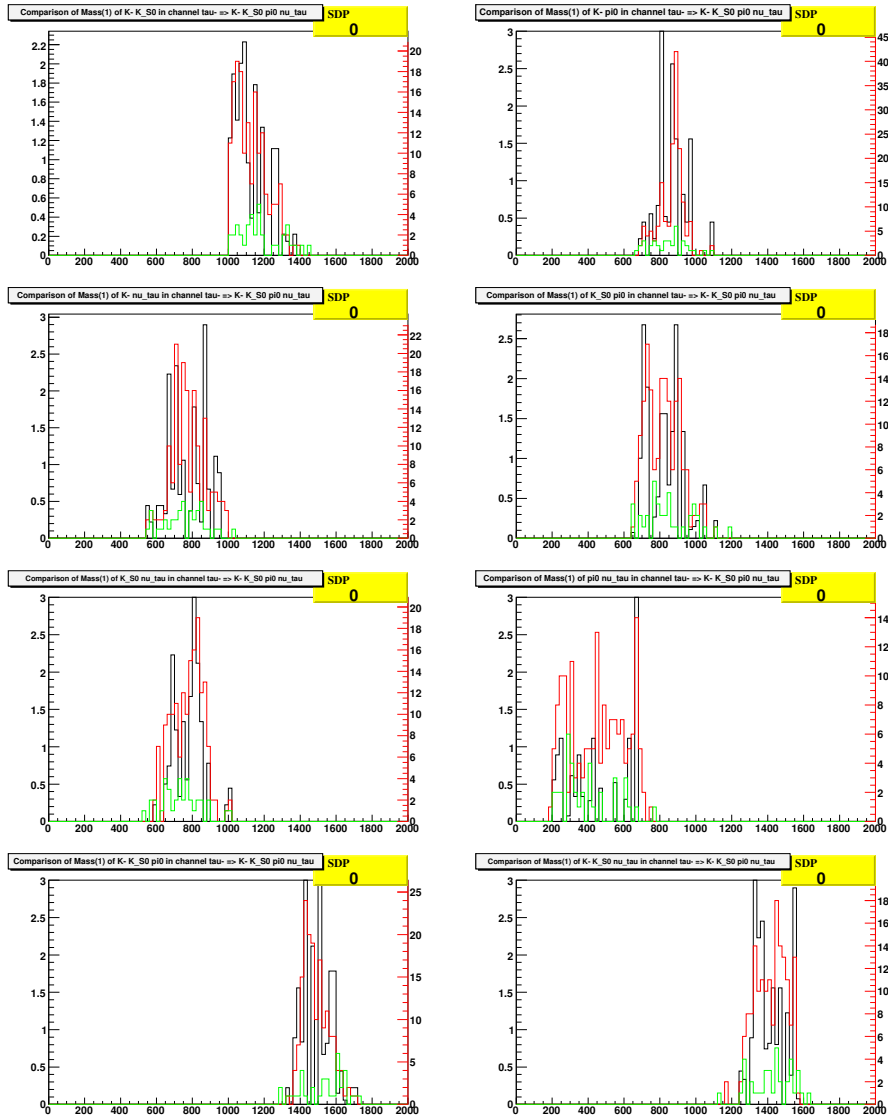


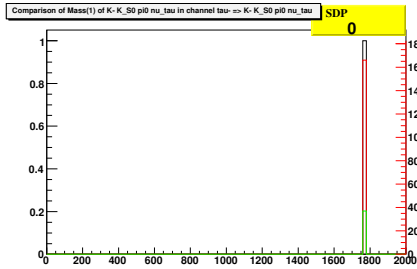
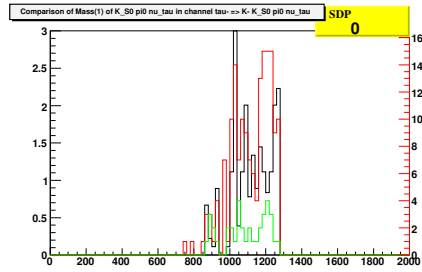
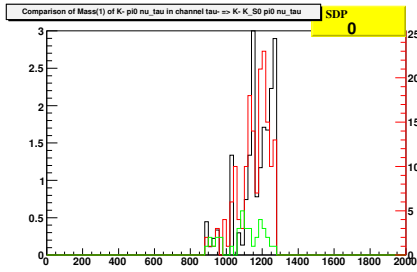


19 Decay Channel: $\tau^- \rightarrow K^- K_S^0 \pi^0 \nu_\tau$

Number of events from generator 1: 166

Number of events from generator 2: 37

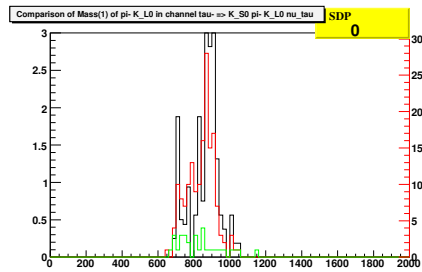
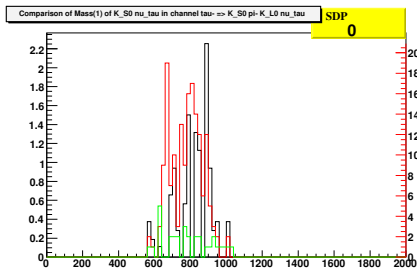
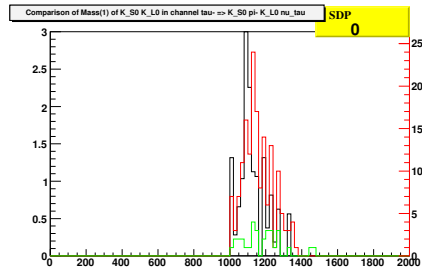
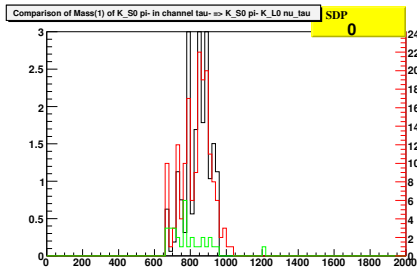


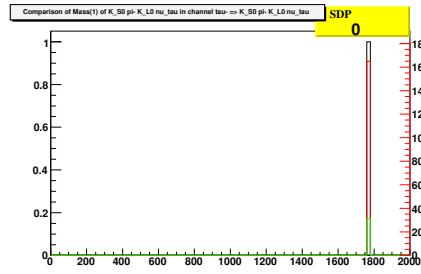
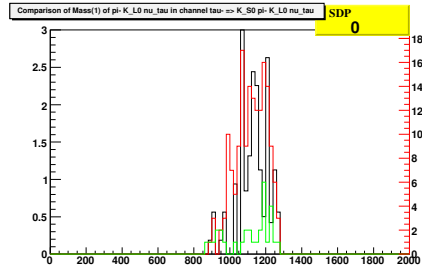
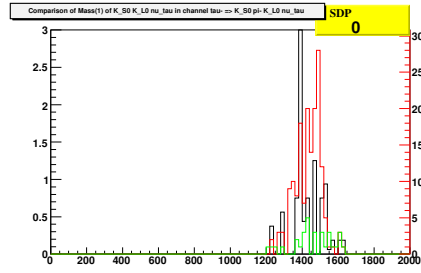
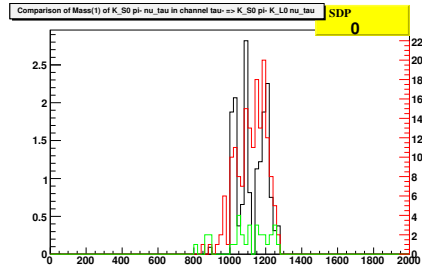
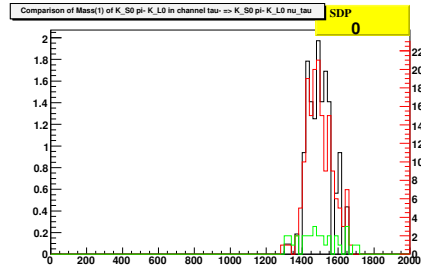
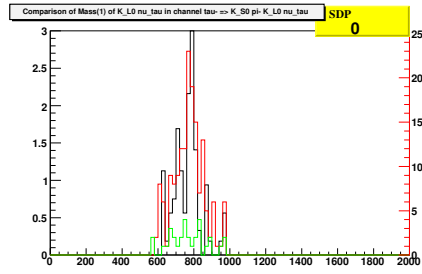
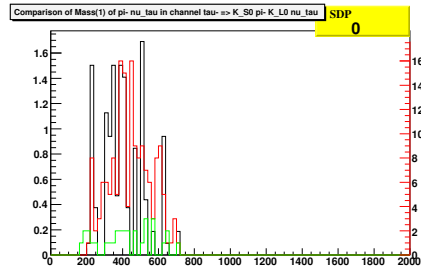


20 Decay Channel: $\tau^- \rightarrow K_S^0 \pi^- K_L^0 \nu_\tau$

Number of events from generator 1: 165

Number of events from generator 2: 31

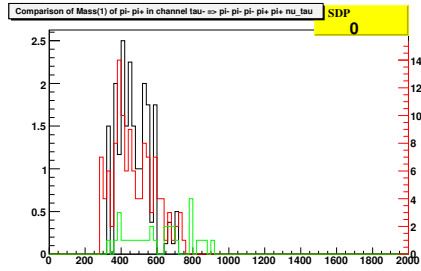
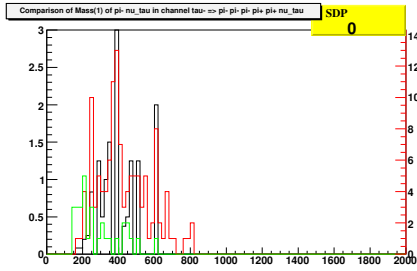
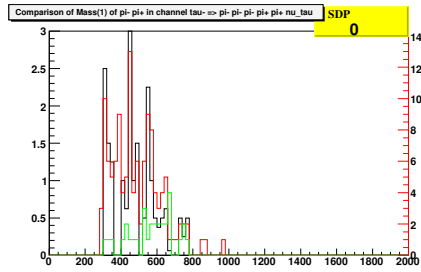
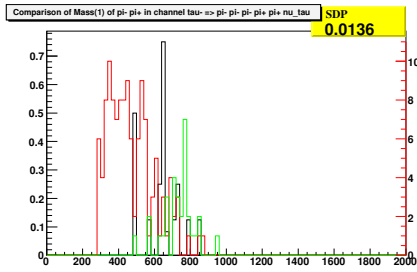
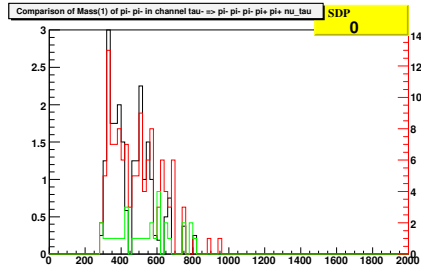
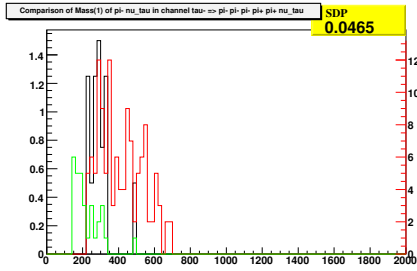
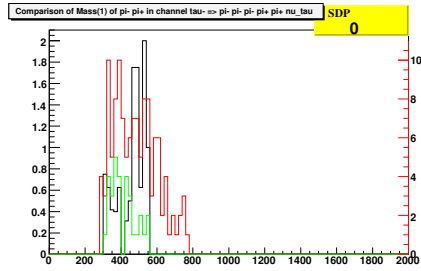
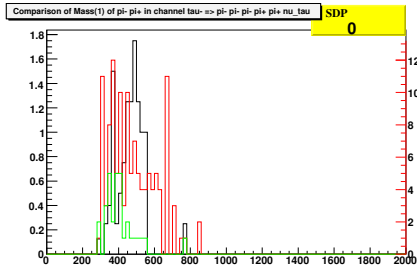
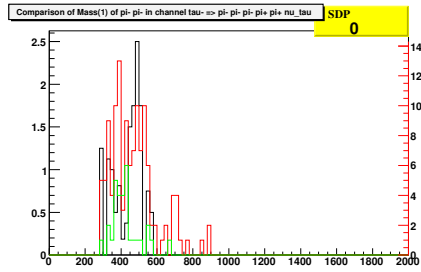
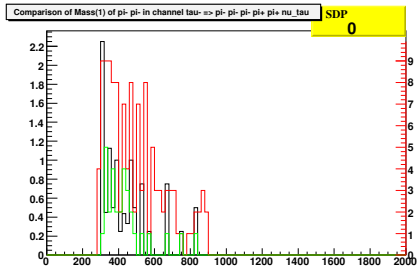


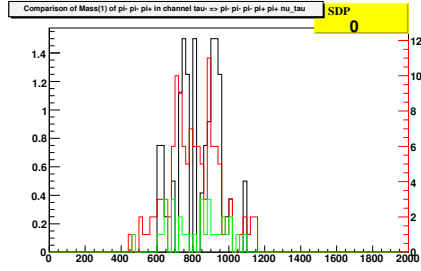
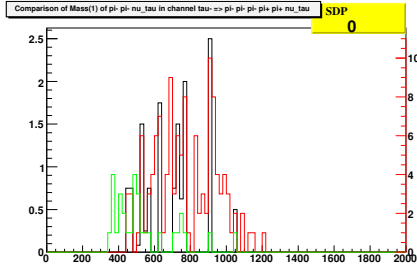
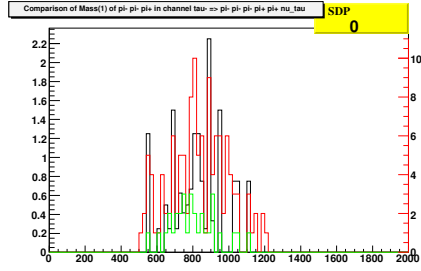
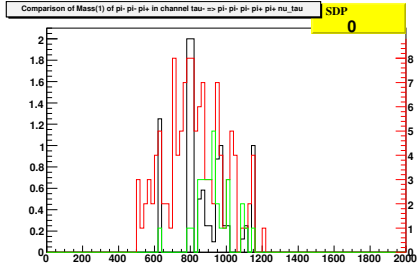
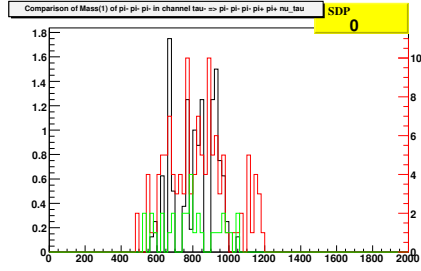
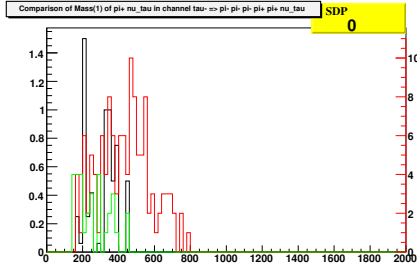
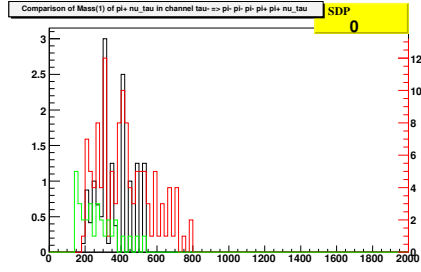
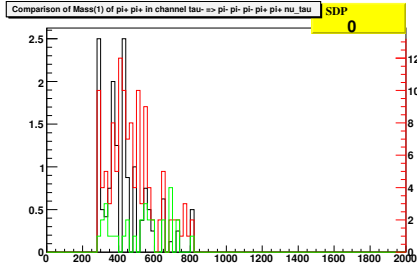
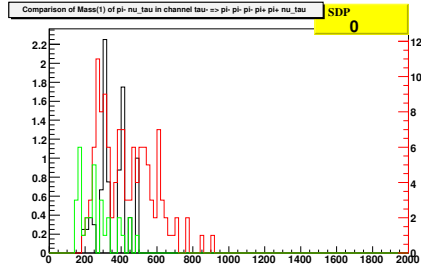
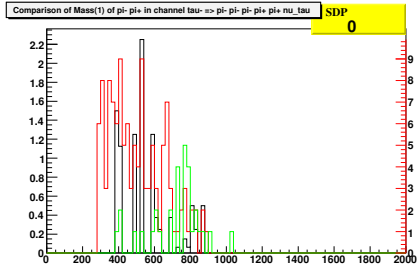


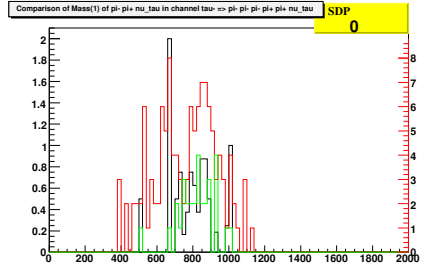
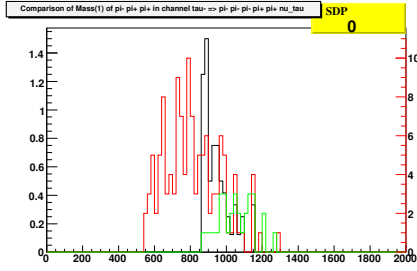
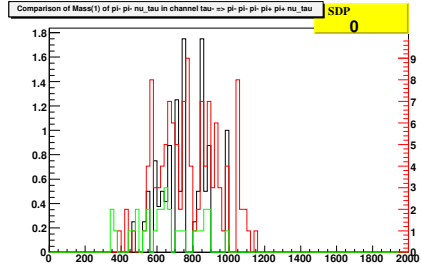
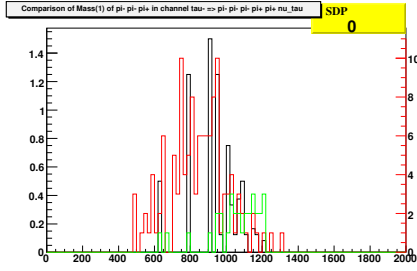
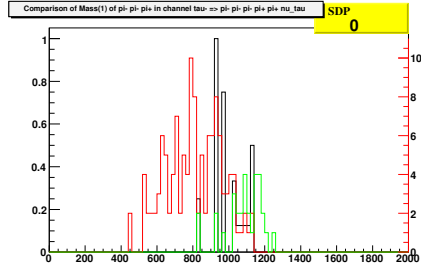
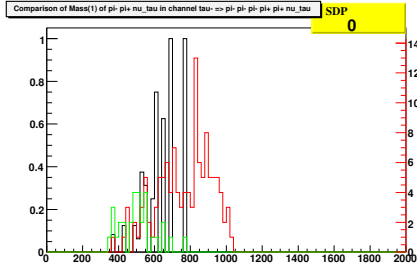
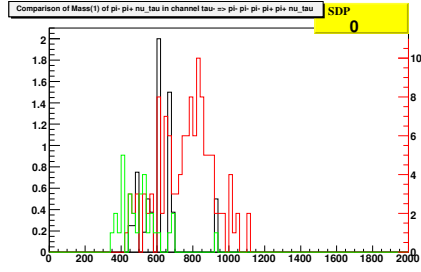
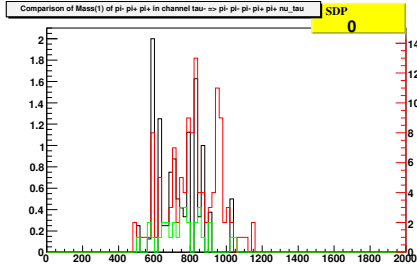
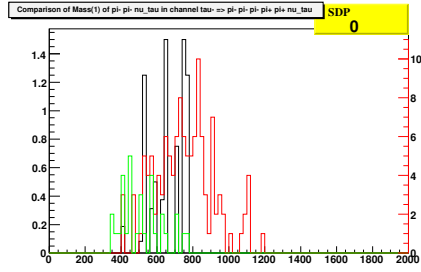
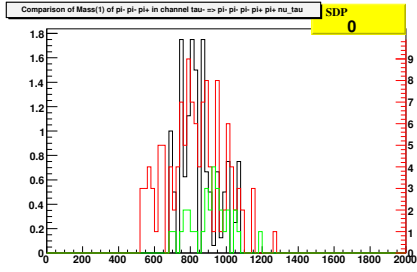
21 Decay Channel: $\tau^- \rightarrow \pi^- \pi^- \pi^- \pi^+ \pi^+ \nu_\tau$

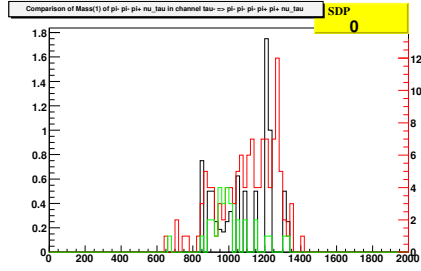
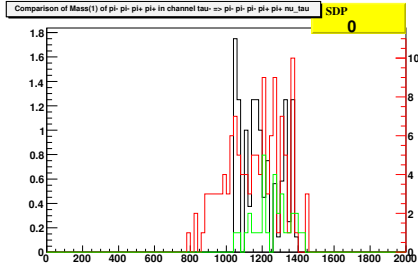
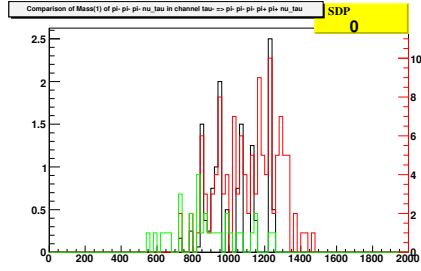
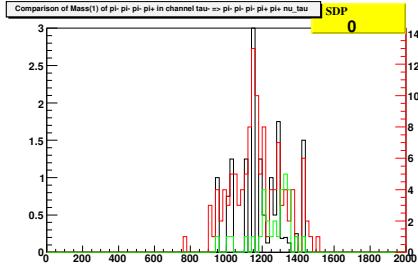
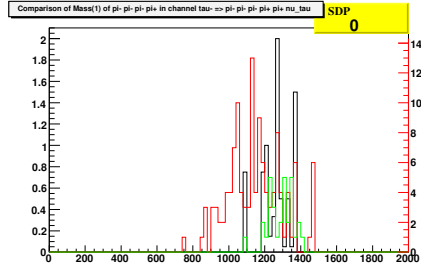
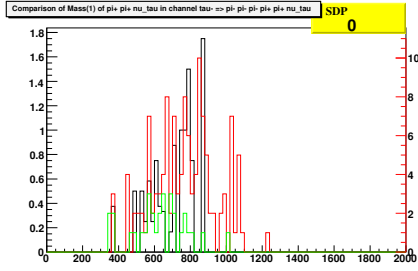
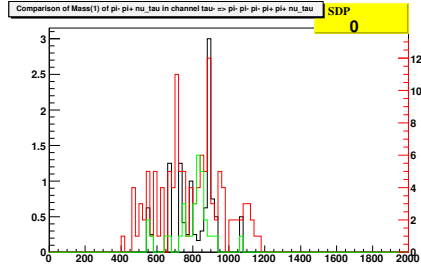
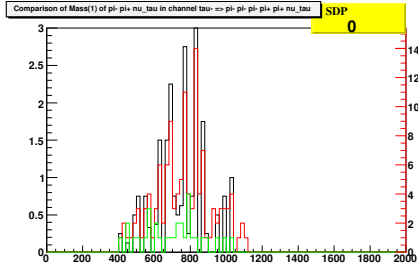
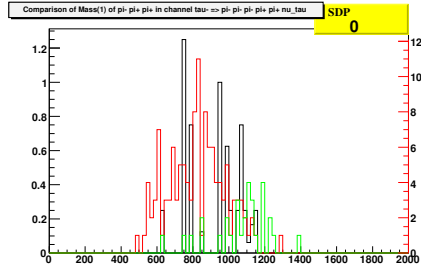
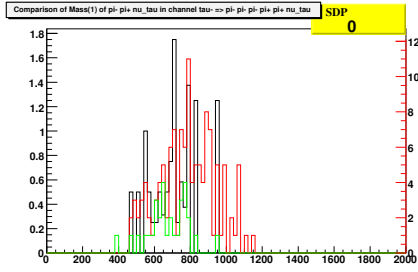
Number of events from generator 1: 124

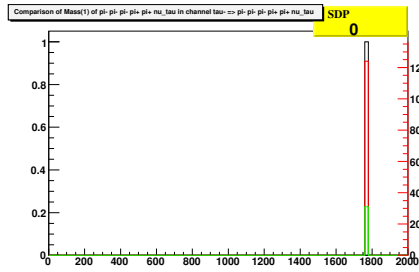
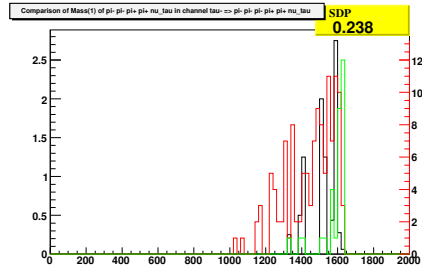
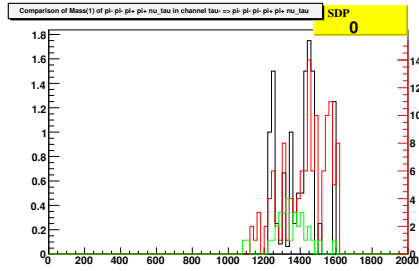
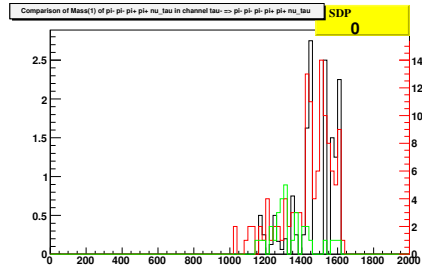
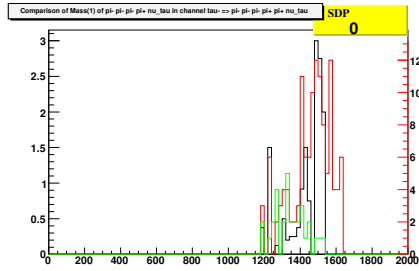
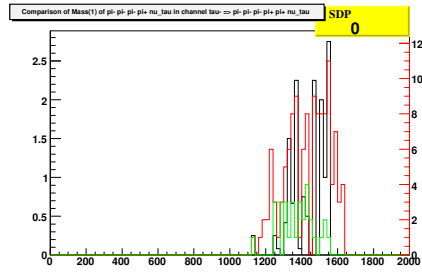
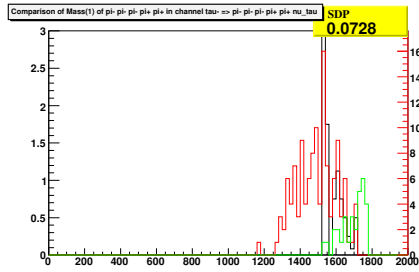
Number of events from generator 2: 31







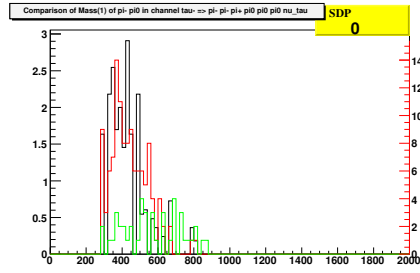
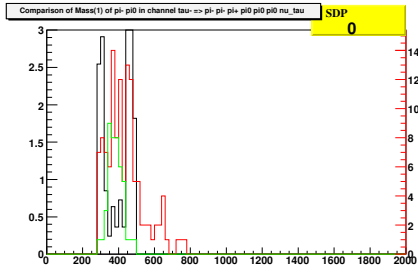
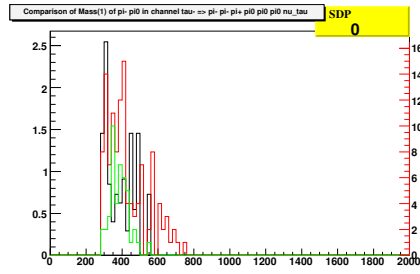
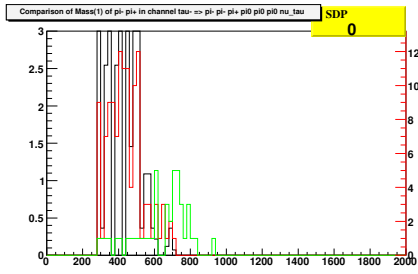
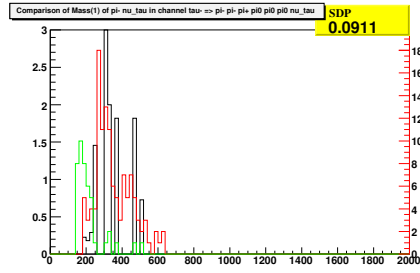
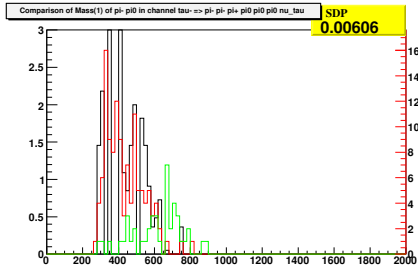
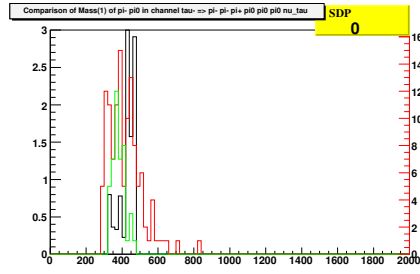
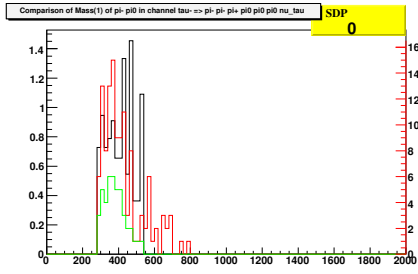
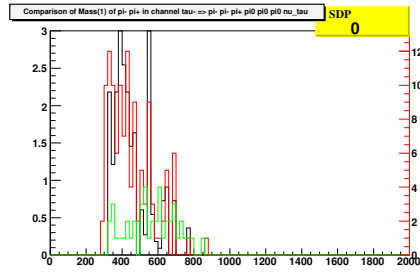
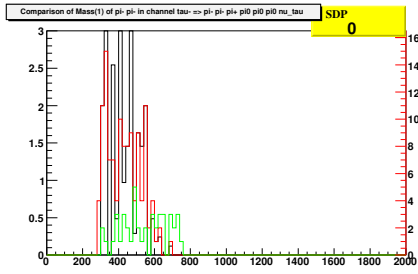


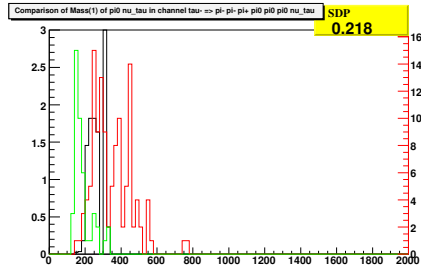
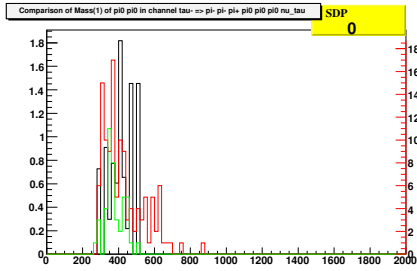
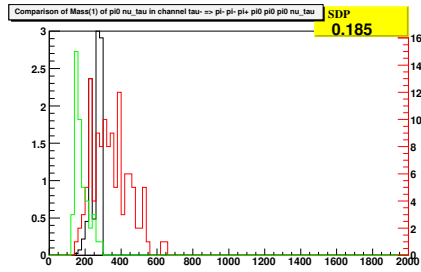
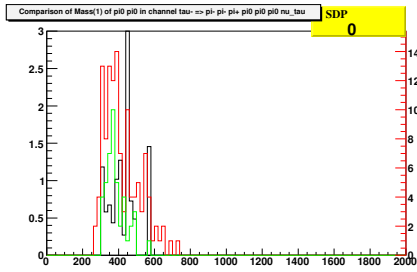
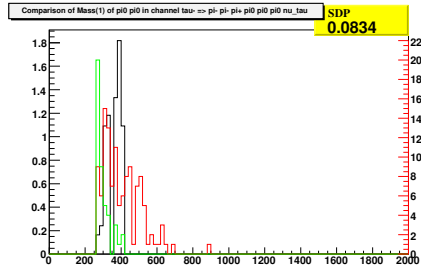
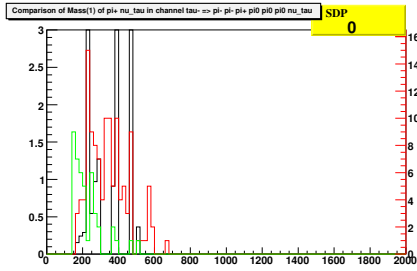
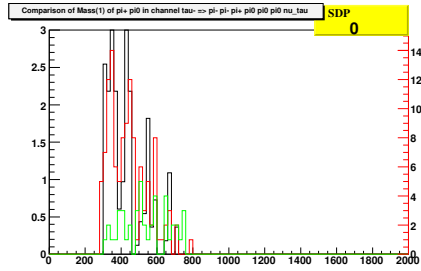
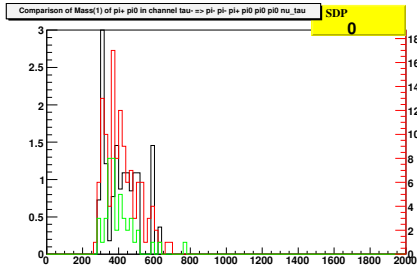
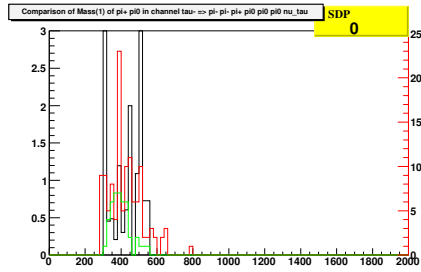
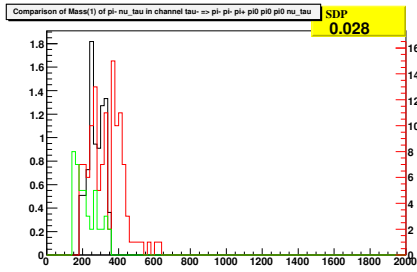


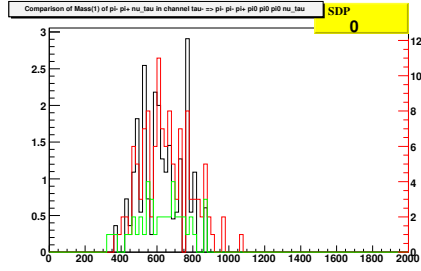
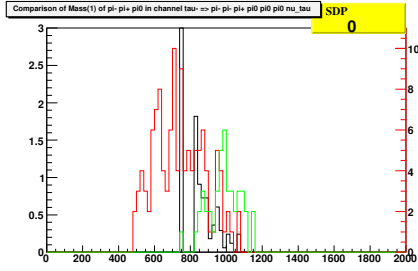
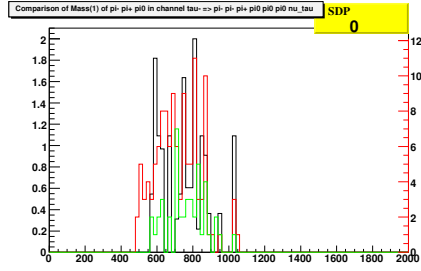
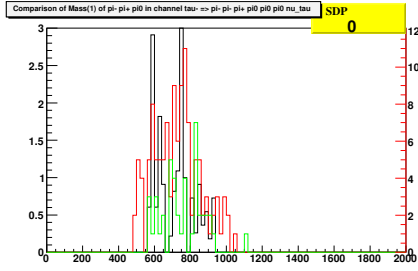
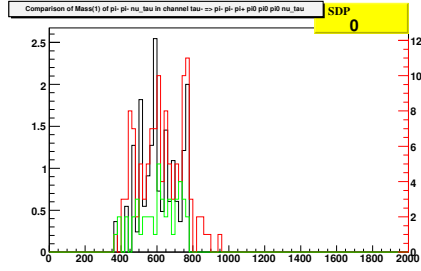
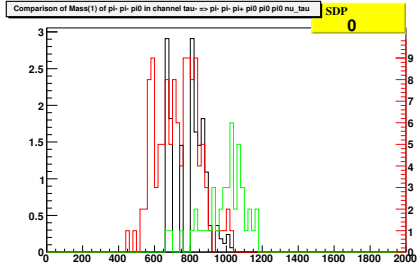
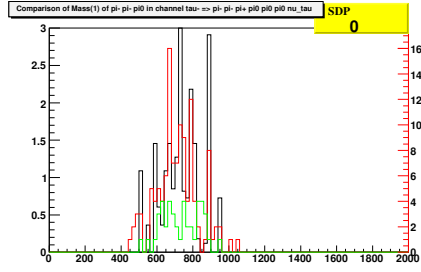
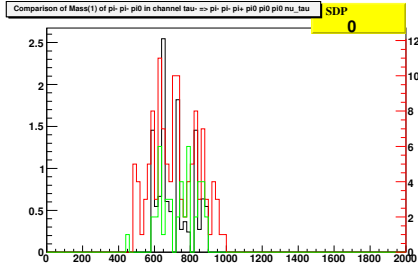
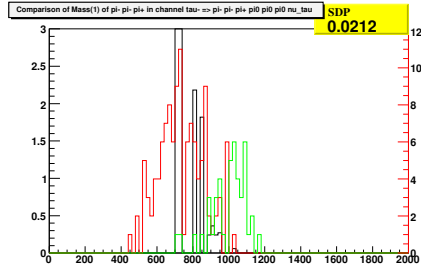
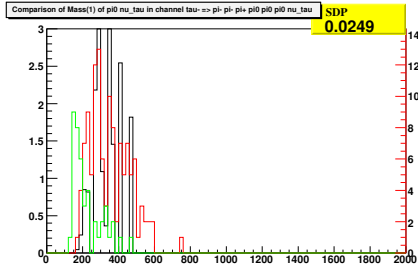
22 Decay Channel: $\tau^- \rightarrow \pi^- \pi^- \pi^+ \pi^0 \pi^0 \pi^0 \nu_\tau$

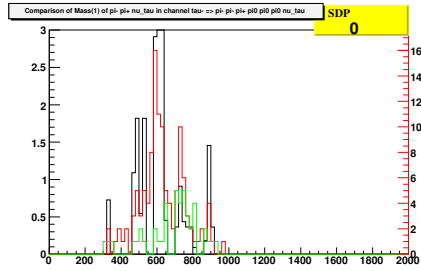
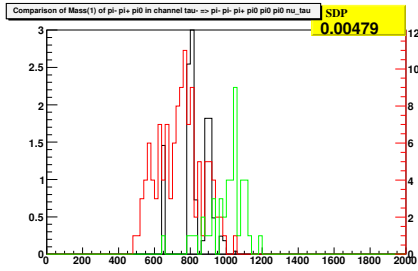
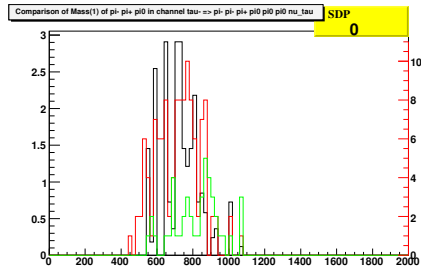
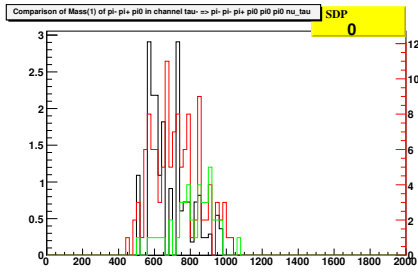
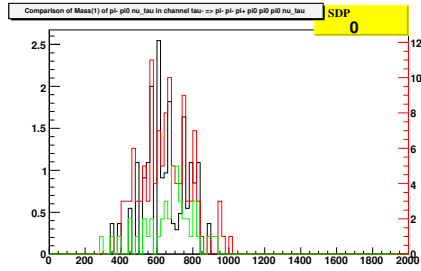
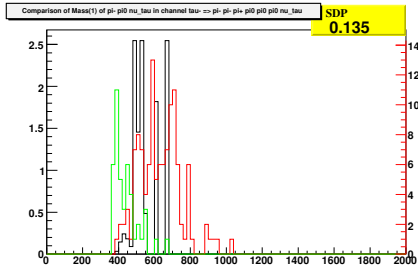
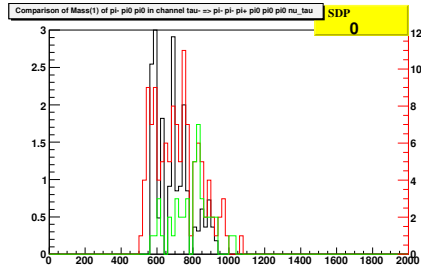
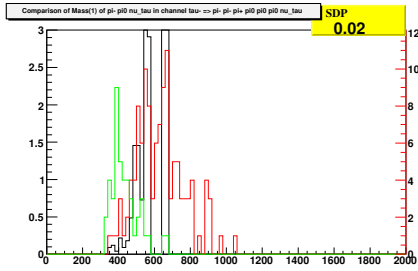
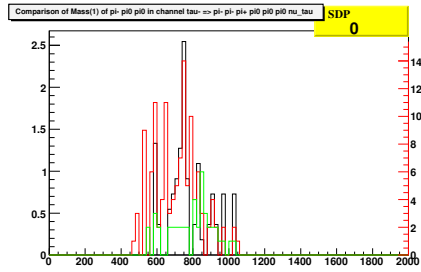
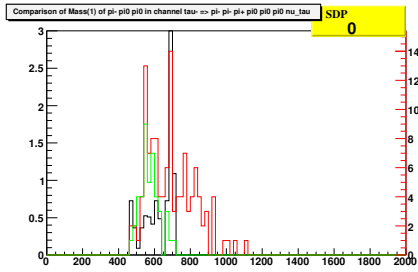
Number of events from generator 1: 121

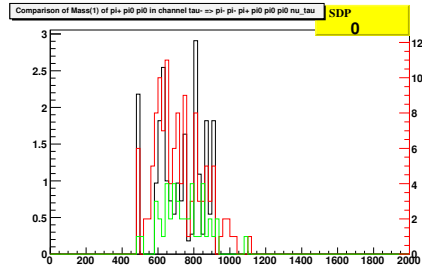
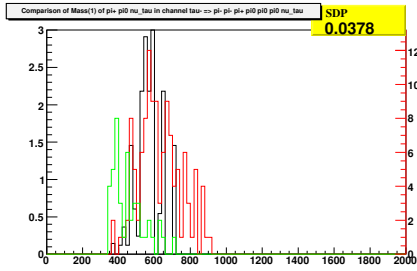
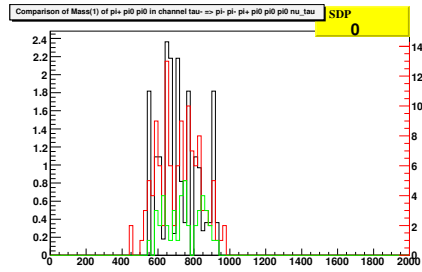
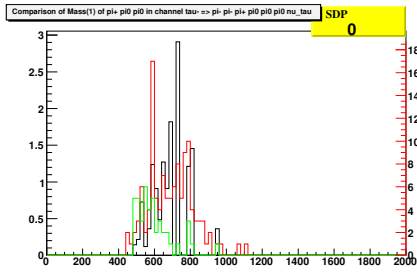
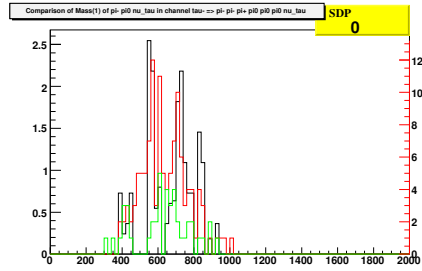
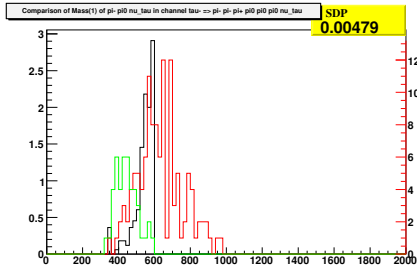
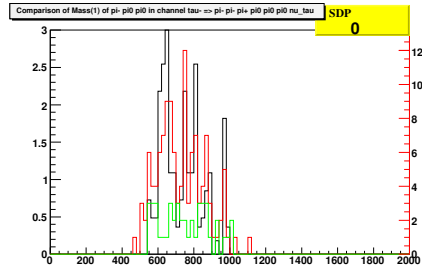
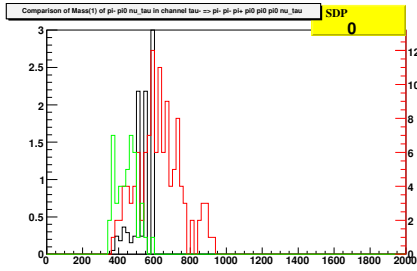
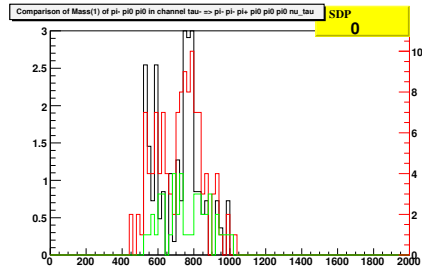
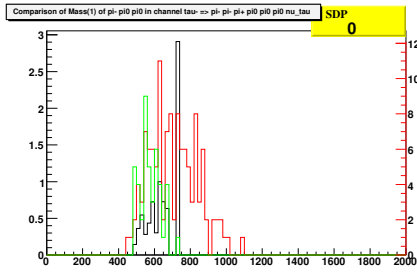
Number of events from generator 2: 44

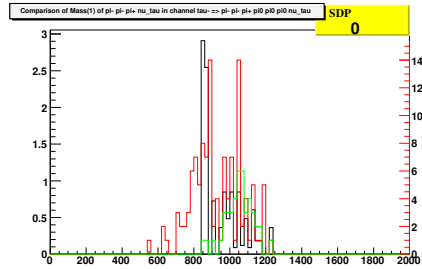
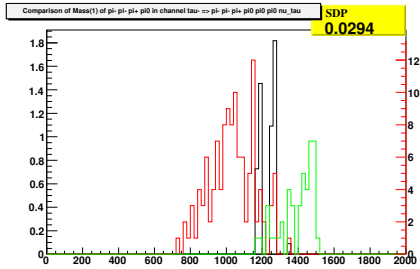
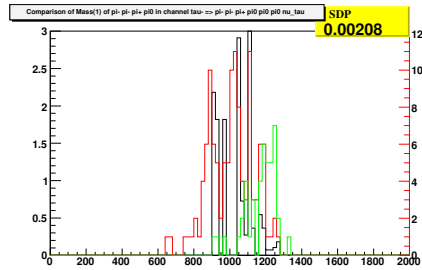
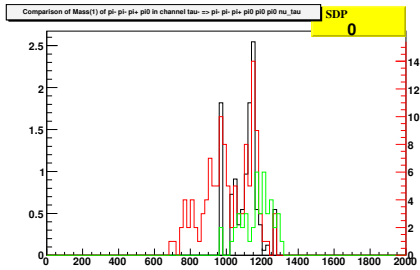
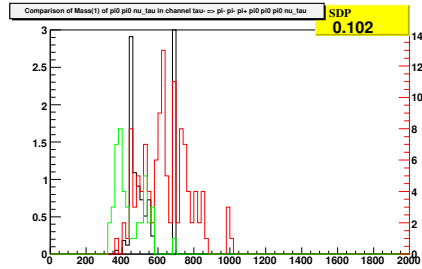
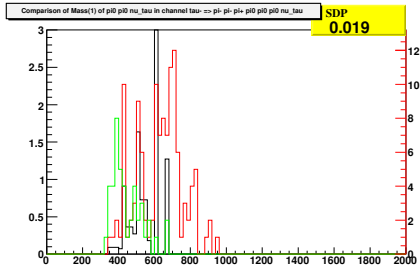
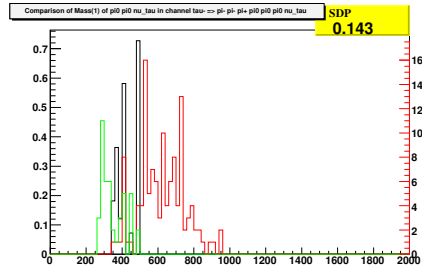
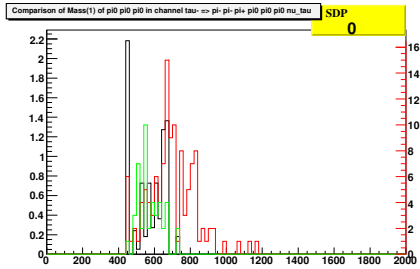
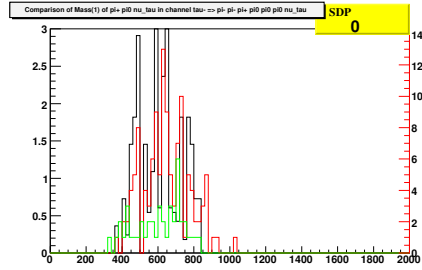
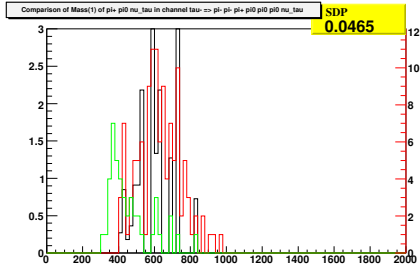


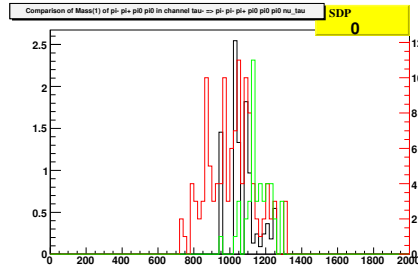
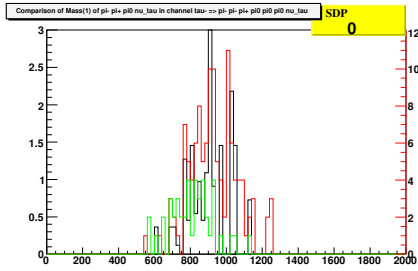
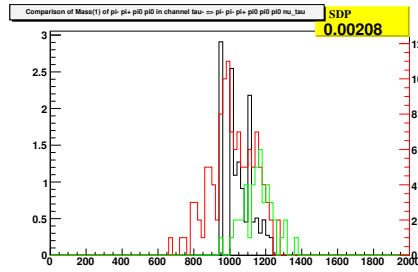
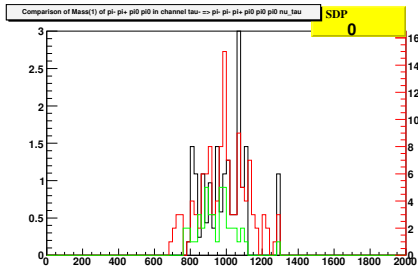
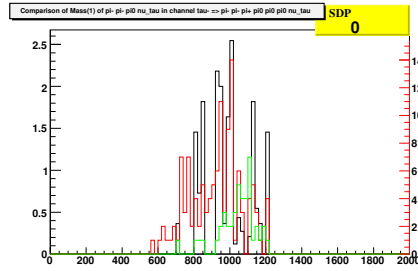
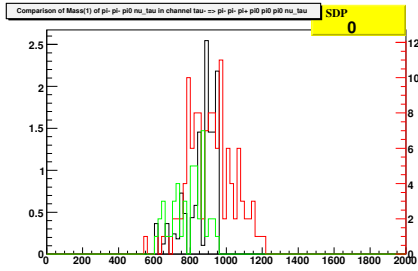
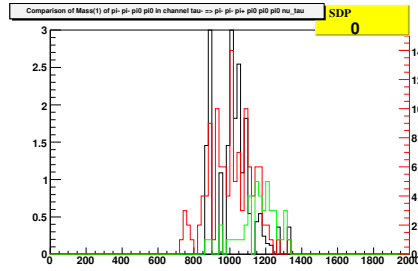
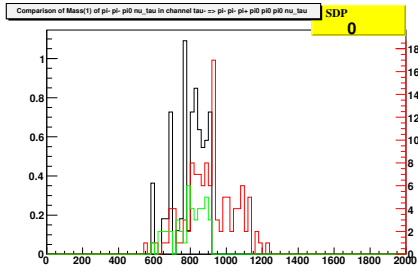
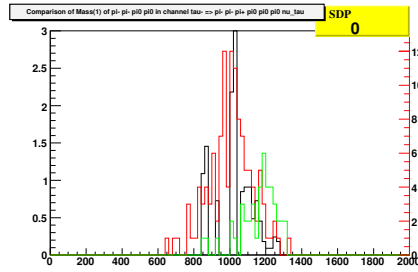
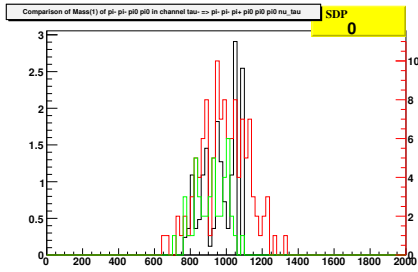


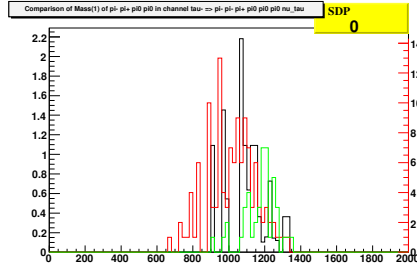
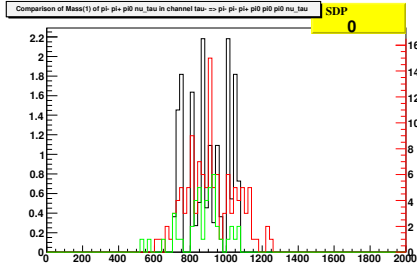
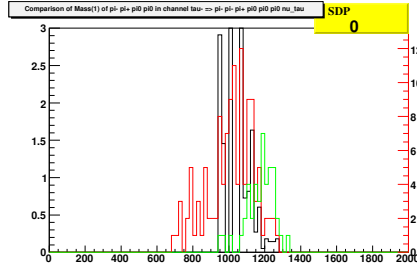
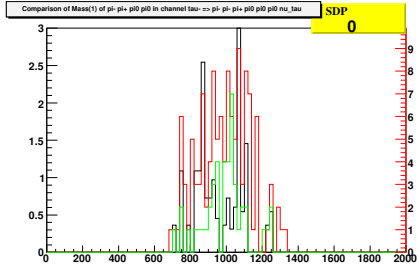
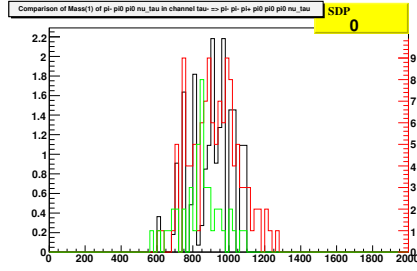
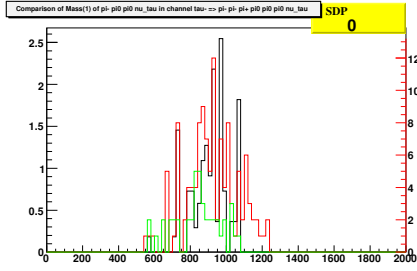
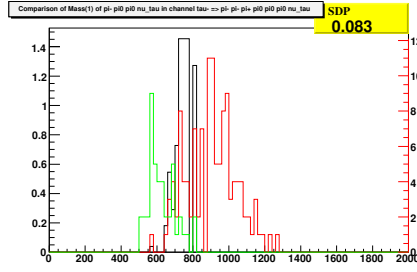
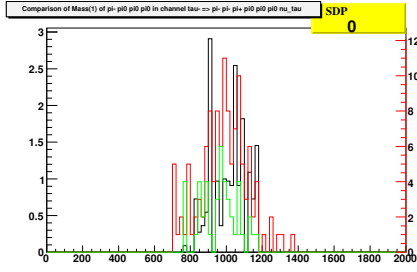
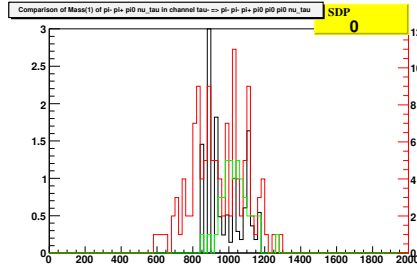
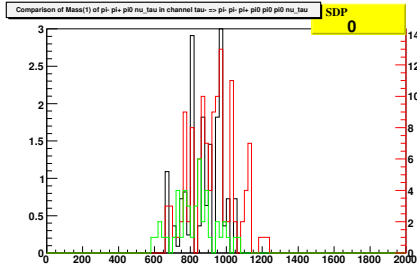


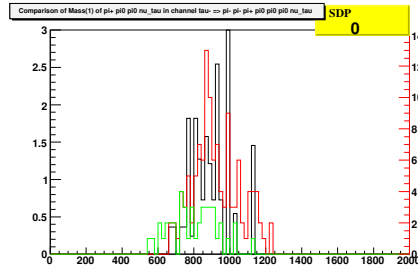
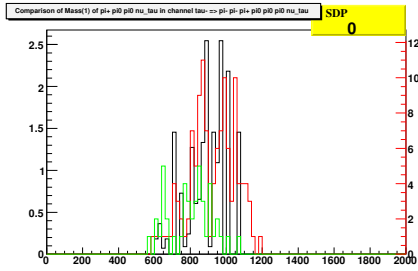
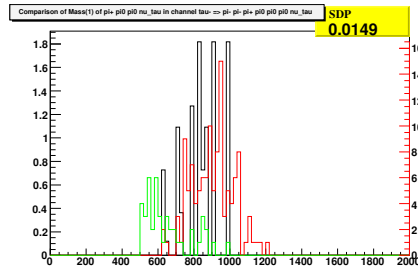
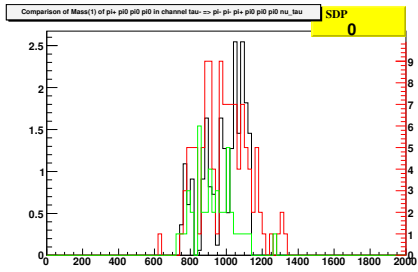
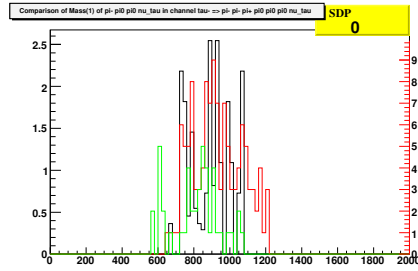
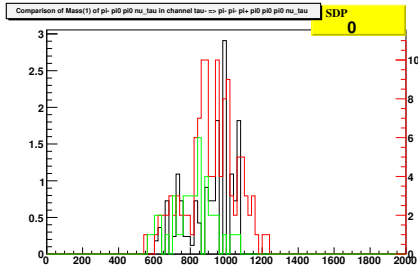
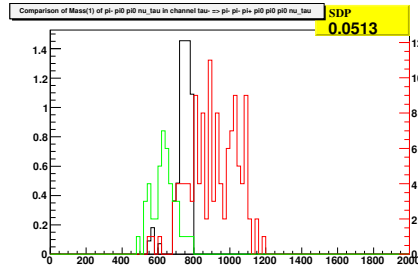
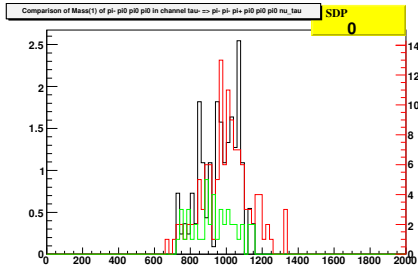
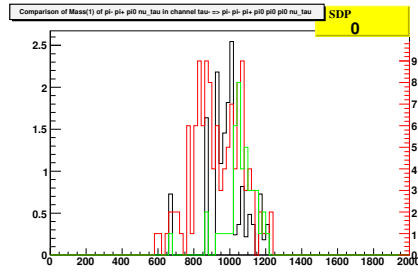
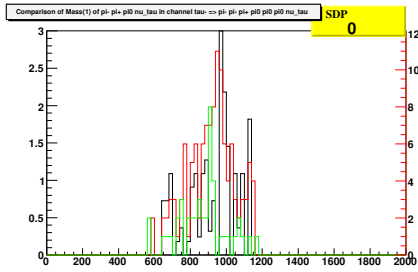


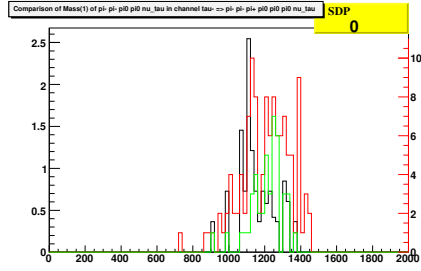
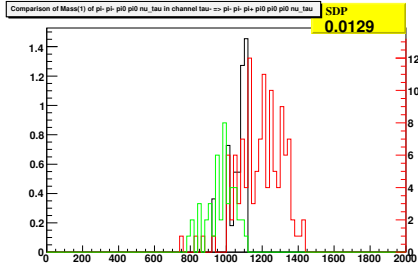
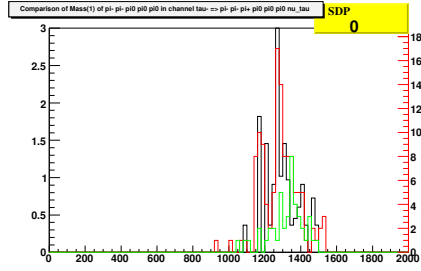
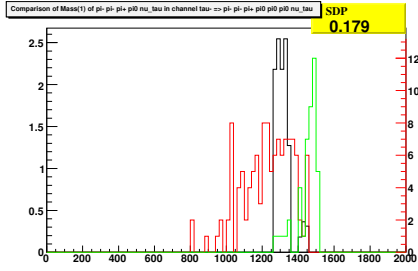
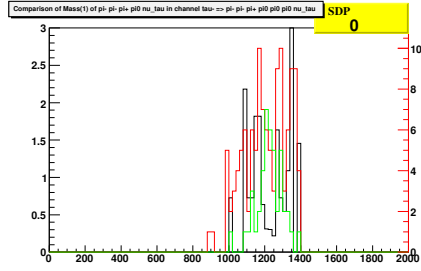
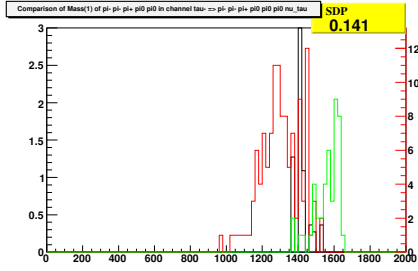
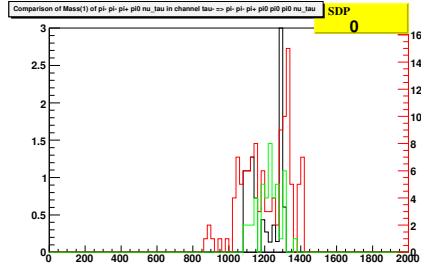
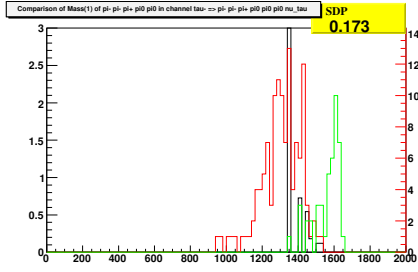
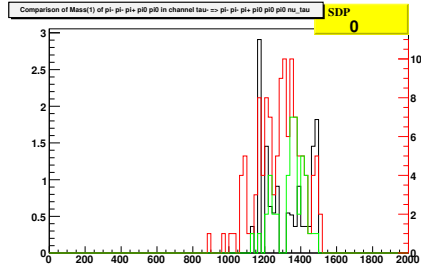
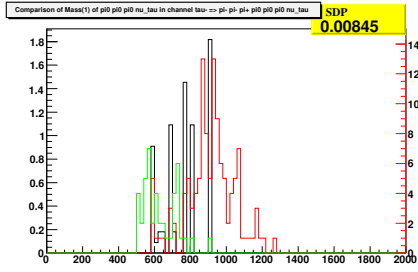


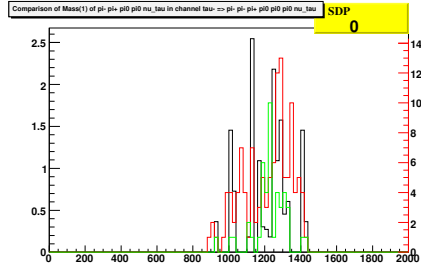
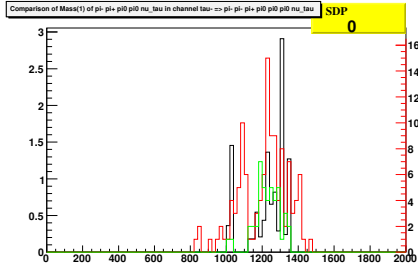
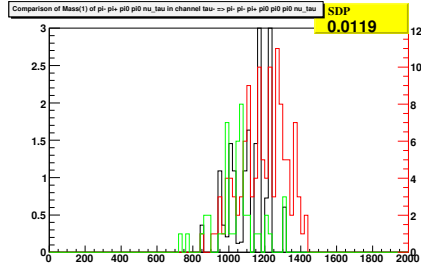
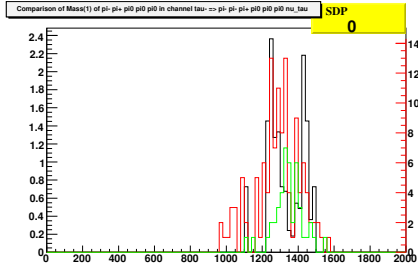
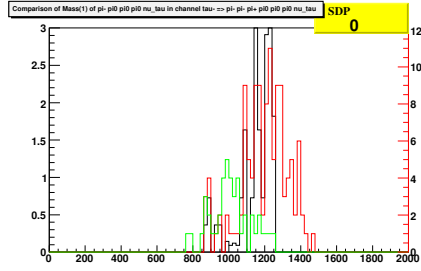
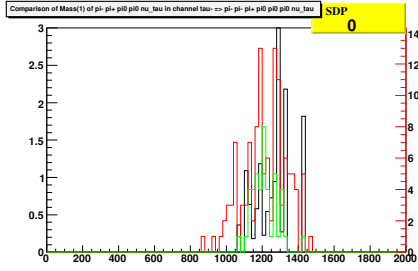
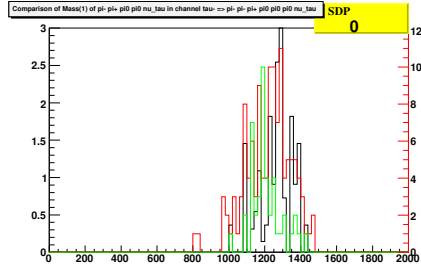
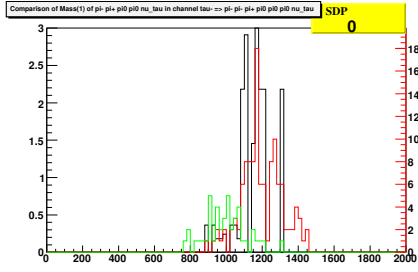
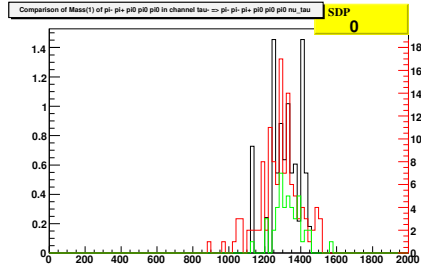
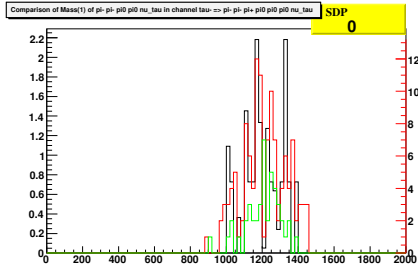


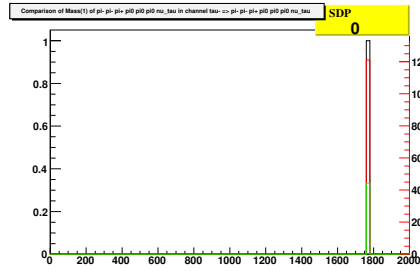
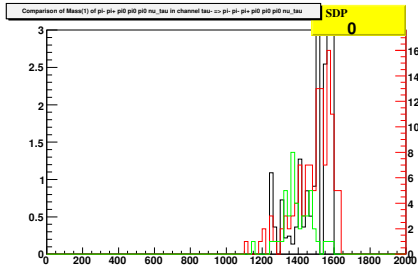
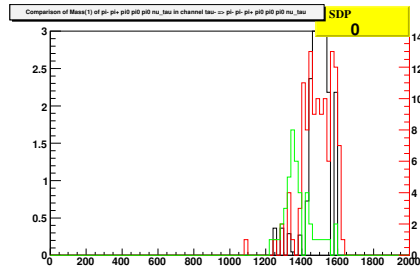
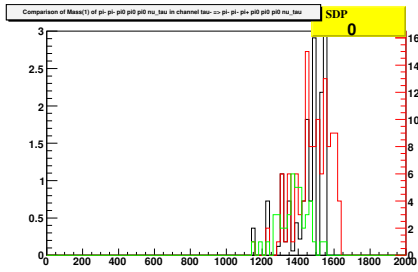
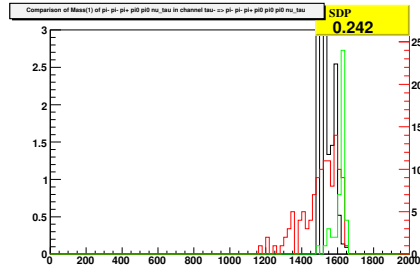
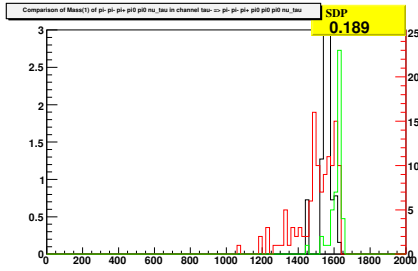
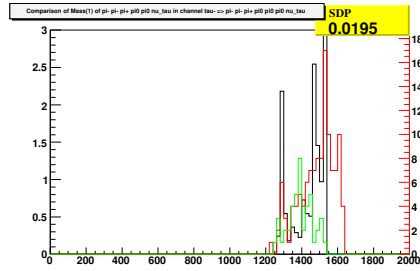
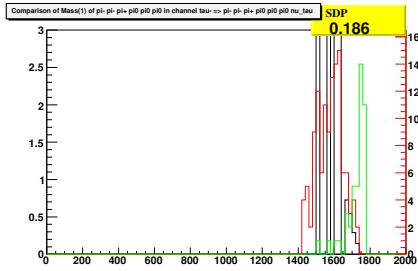
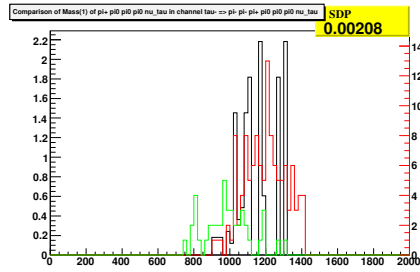
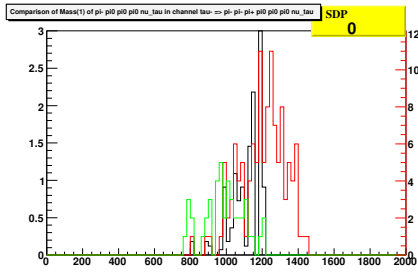








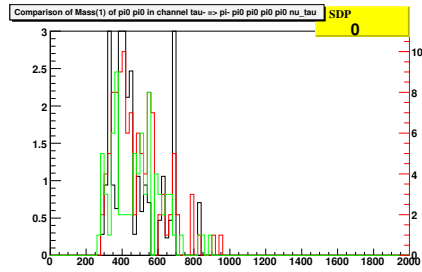
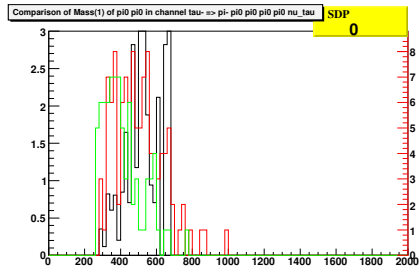
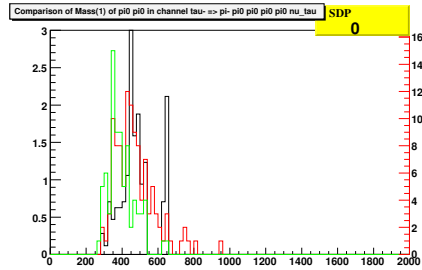
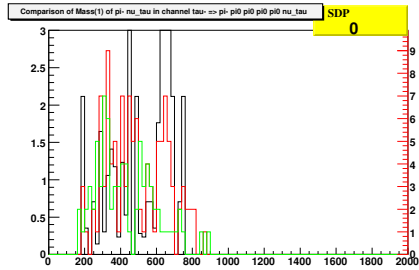
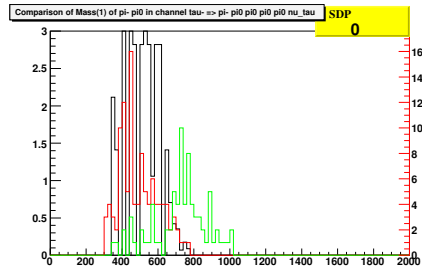
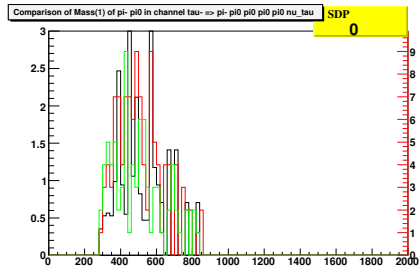
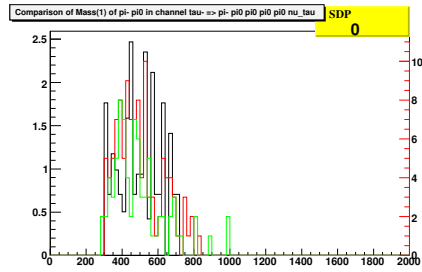
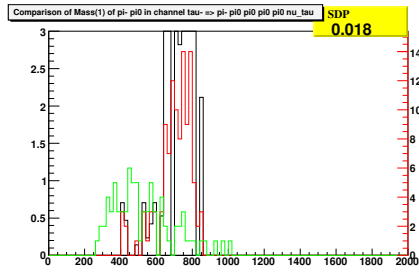


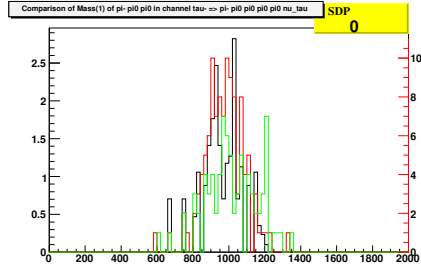
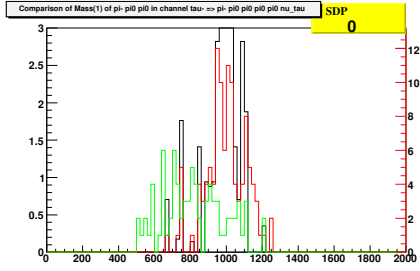
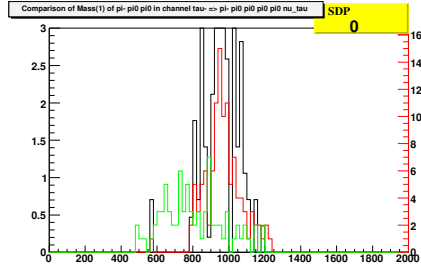
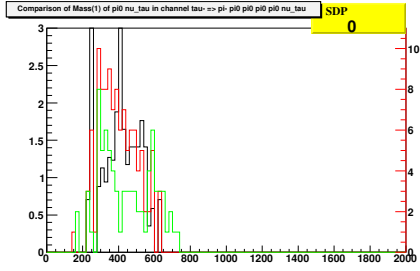
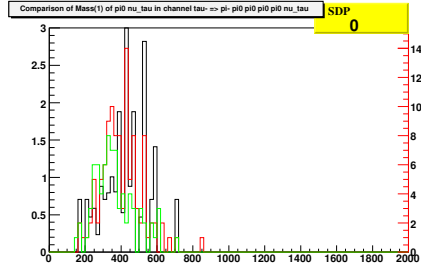
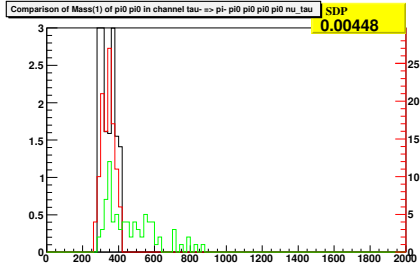
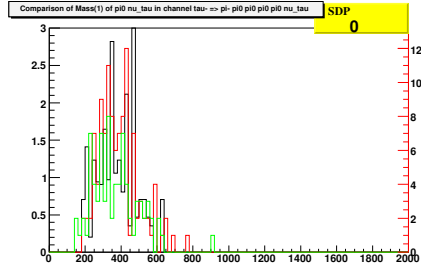
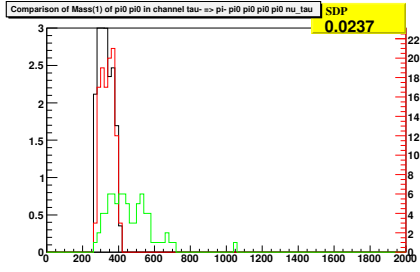
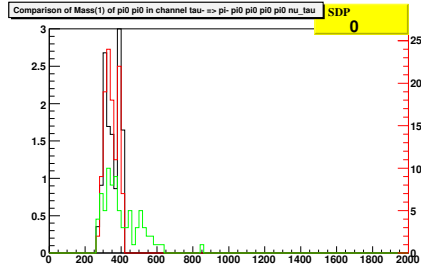
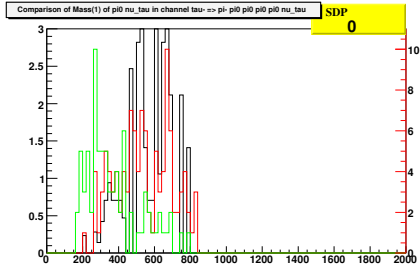


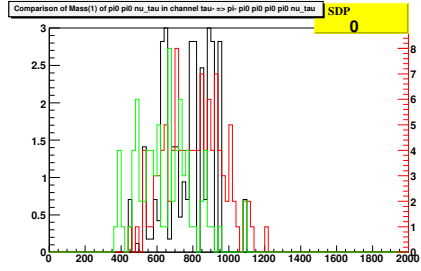
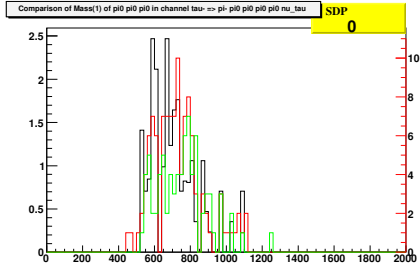
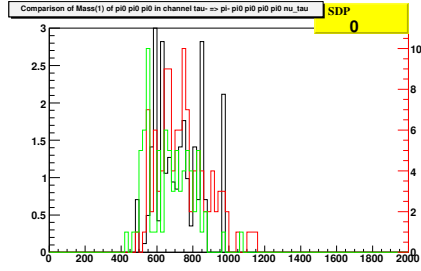
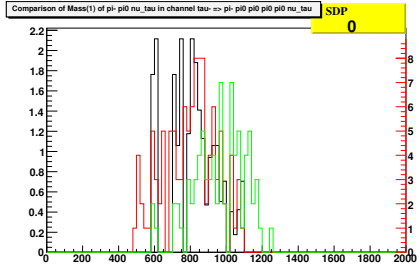
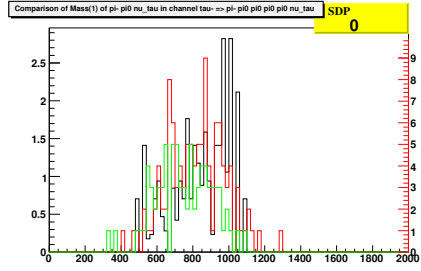
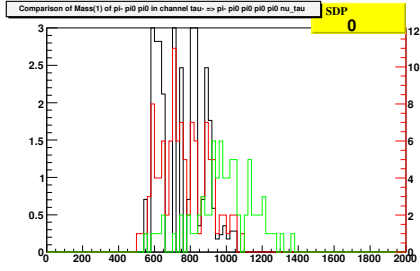
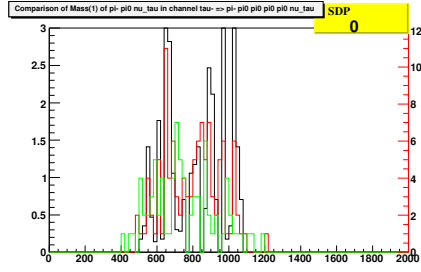
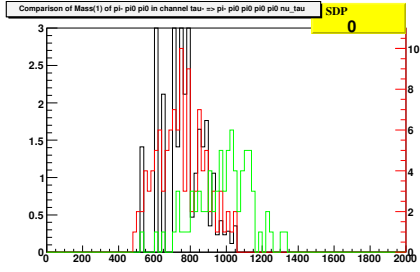
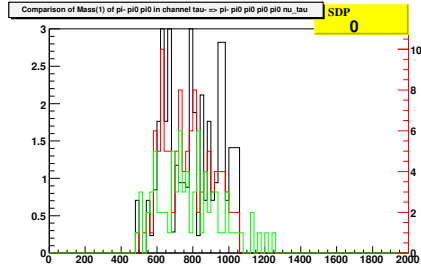
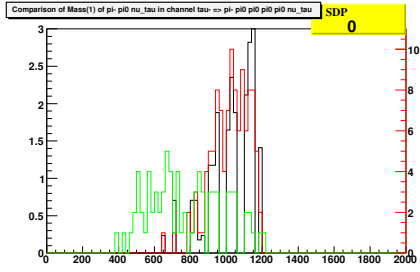
23 Decay Channel: $\tau^- \rightarrow \pi^- \pi^0 \pi^0 \pi^0 \nu_\tau$

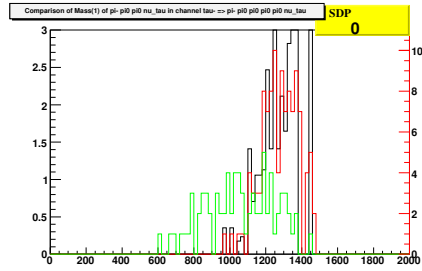
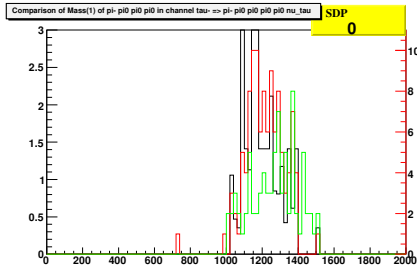
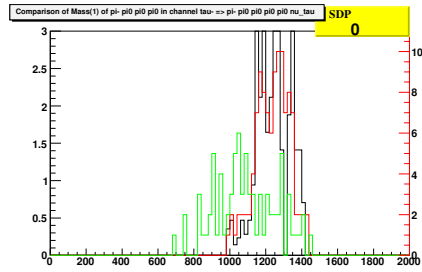
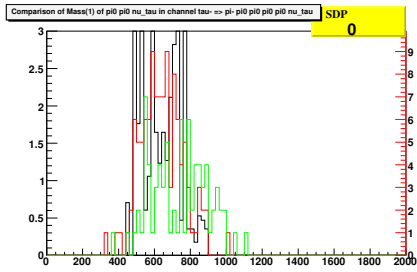
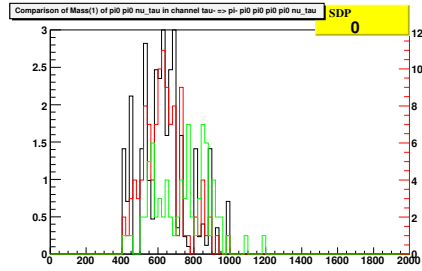
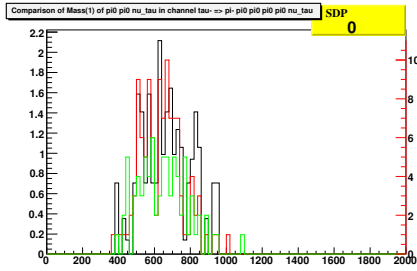
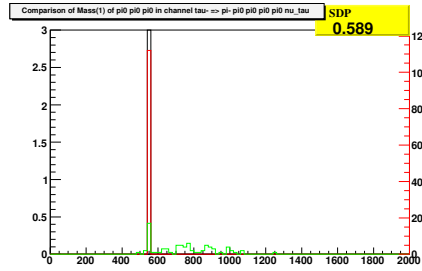
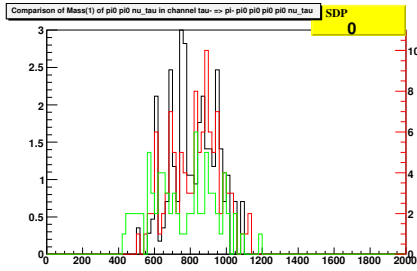
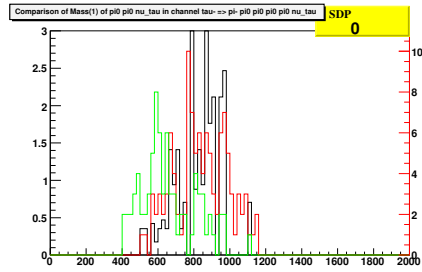
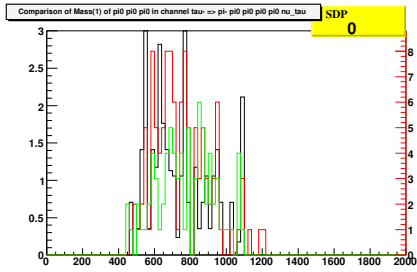
Number of events from generator 1: 112

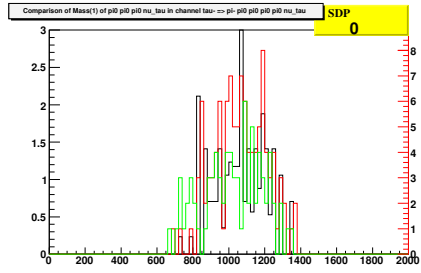
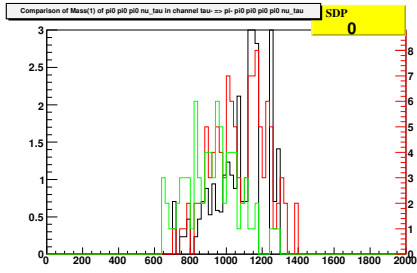
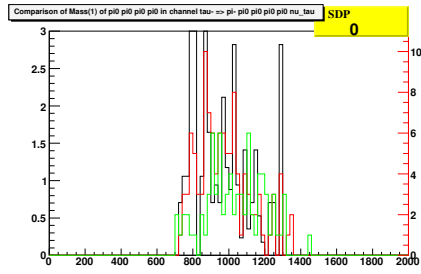
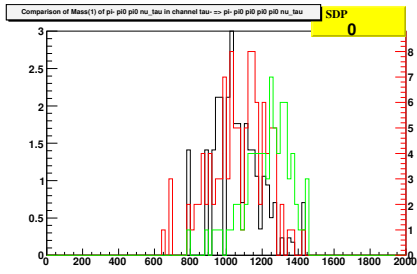
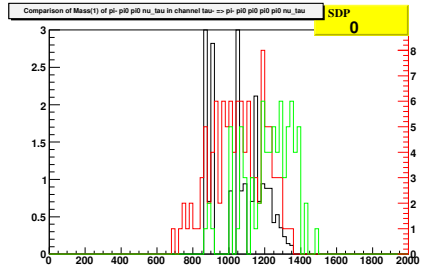
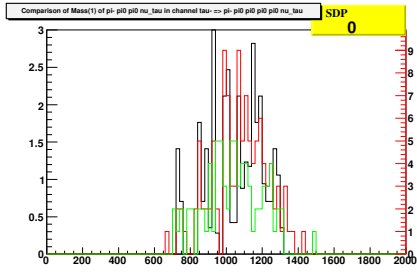
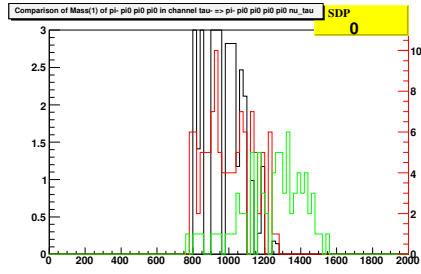
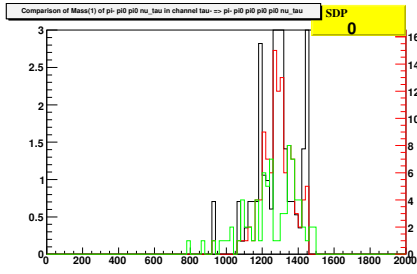
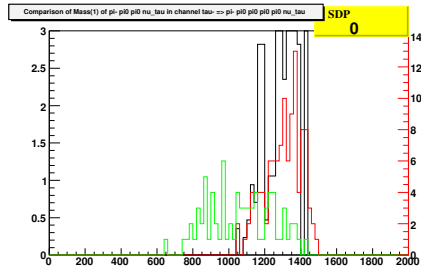
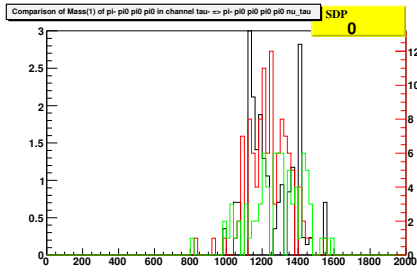
Number of events from generator 2: 79

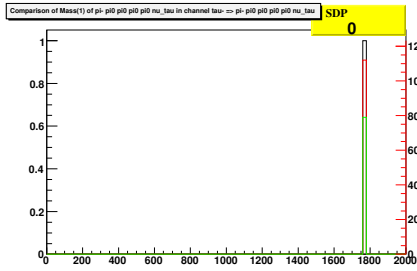
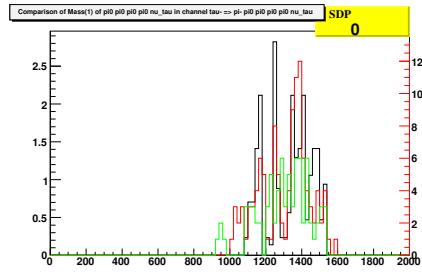
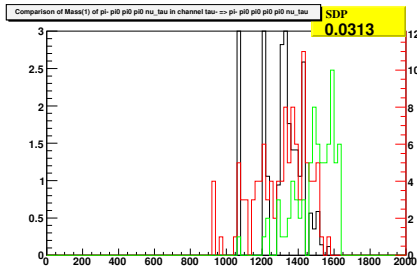
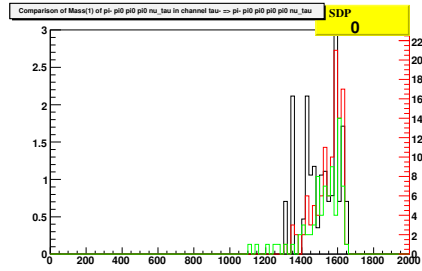
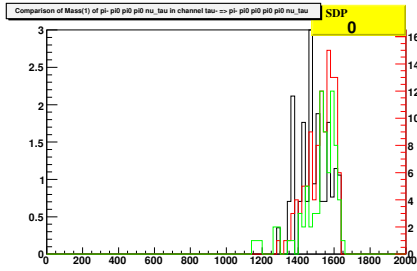
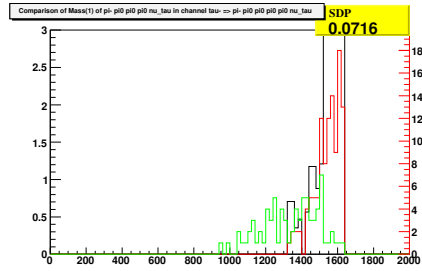
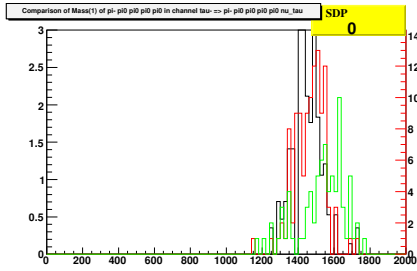
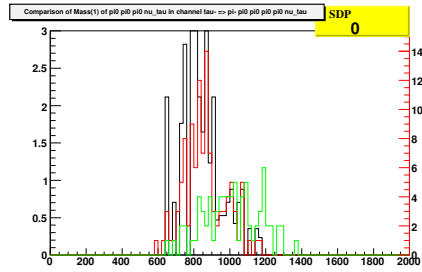
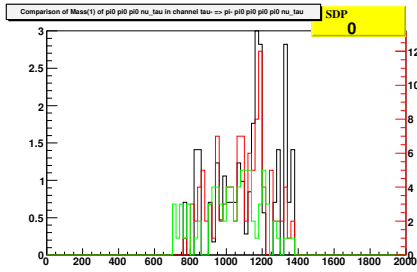








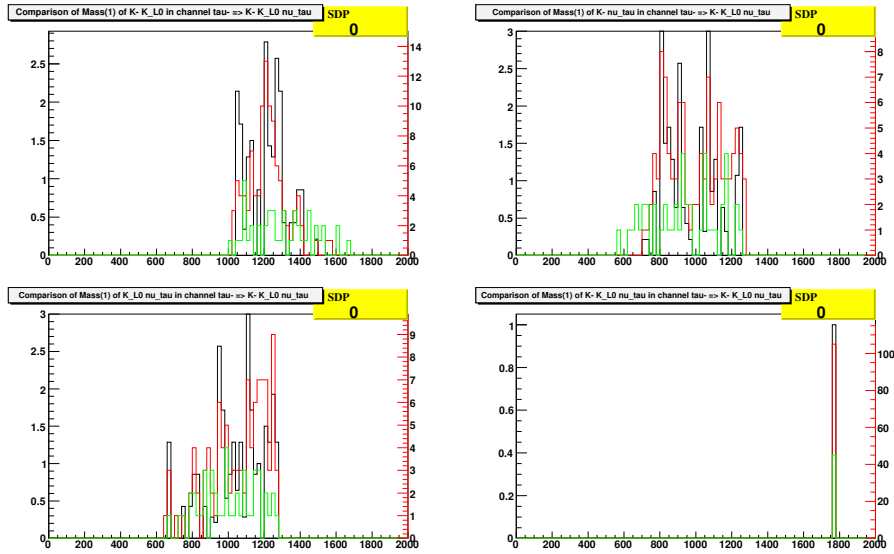




24 Decay Channel: $\tau^- \rightarrow K^- K_L^0 \nu_\tau$

Number of events from generator 1: 105

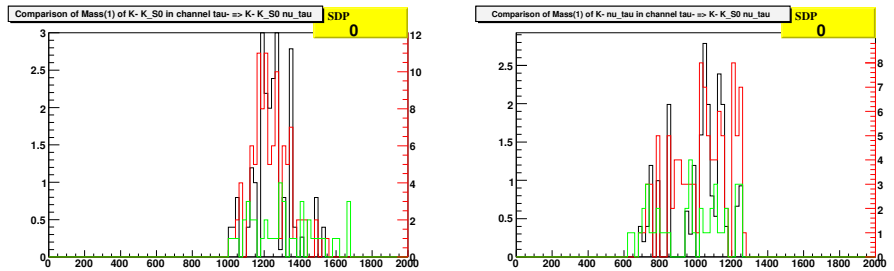
Number of events from generator 2: 45

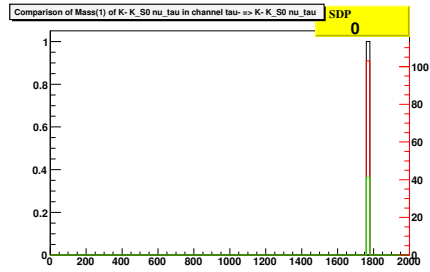
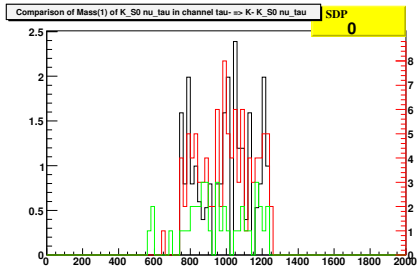


25 Decay Channel: $\tau^- \rightarrow K^- K_S^0 \nu_\tau$

Number of events from generator 1: 103

Number of events from generator 2: 41

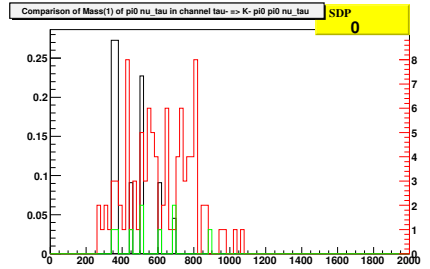
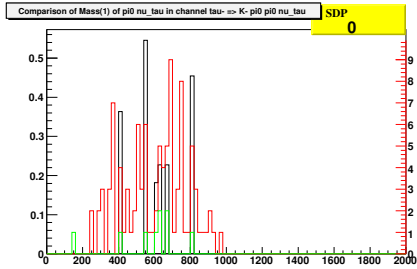
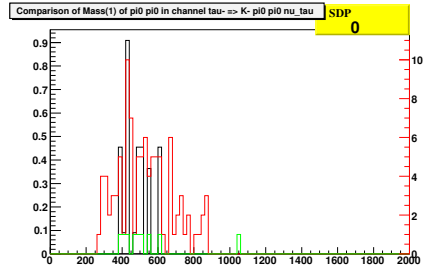
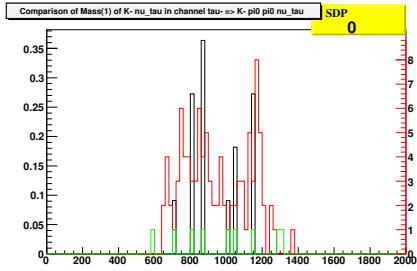
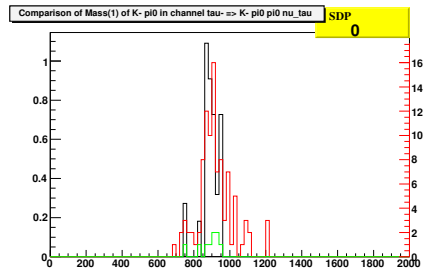
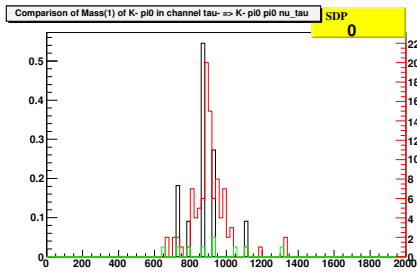


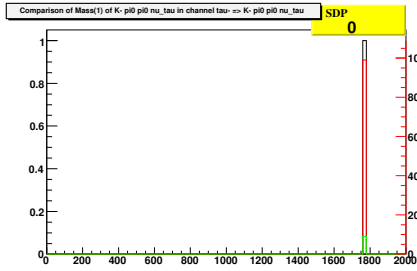
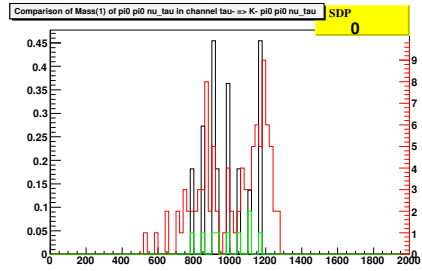
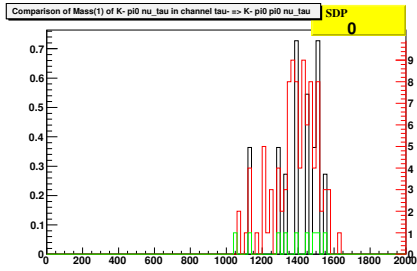
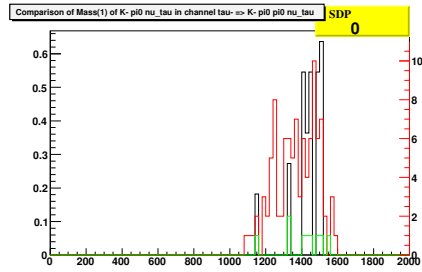
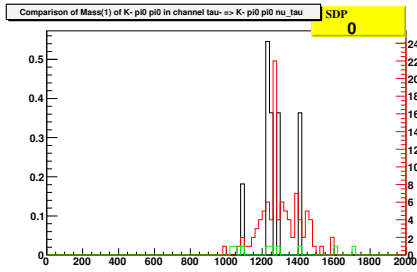


26 Decay Channel: $\tau^- \rightarrow K^- \pi^0 \pi^0 \nu_\tau$

Number of events from generator 1: 99

Number of events from generator 2: 9

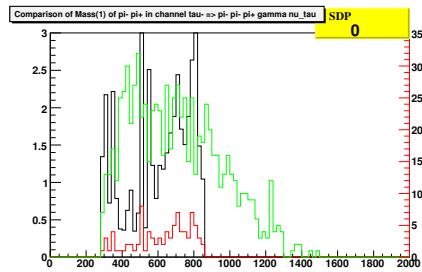
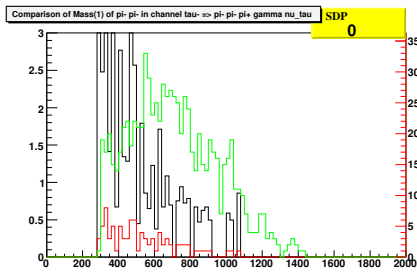


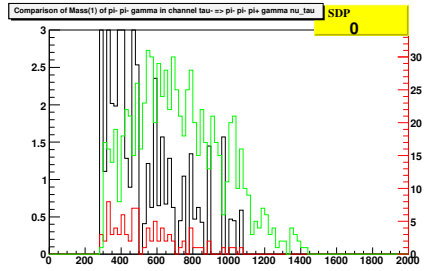
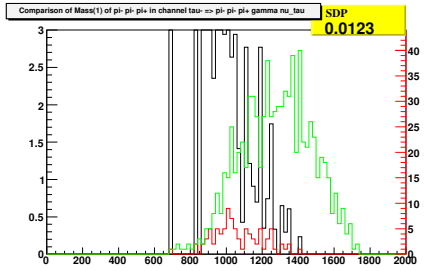
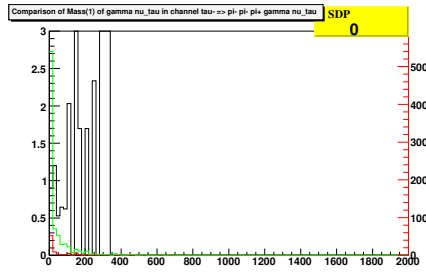
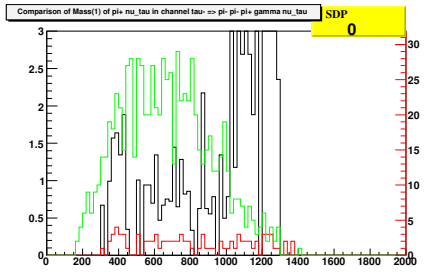
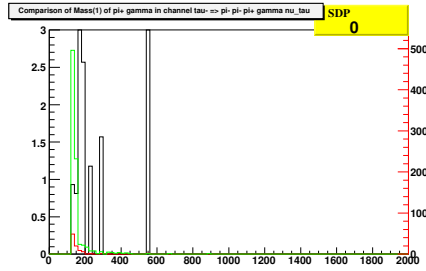
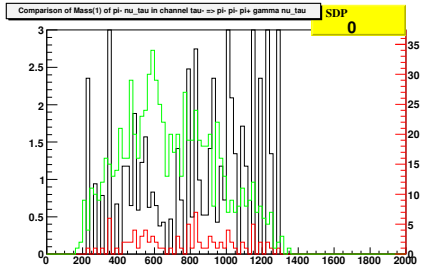
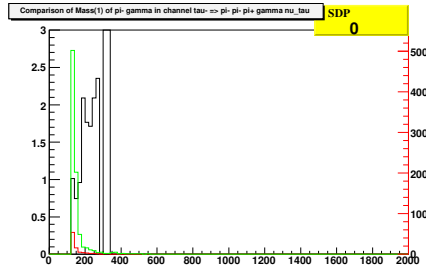
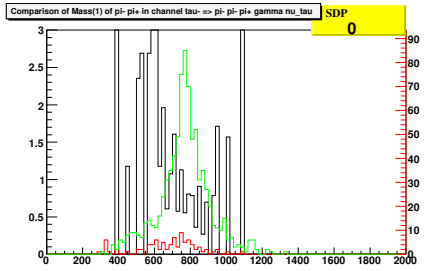
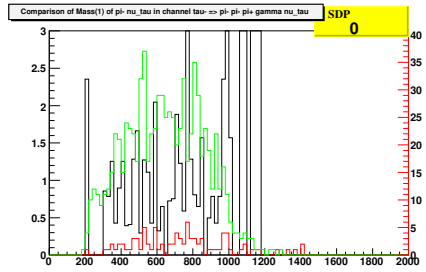
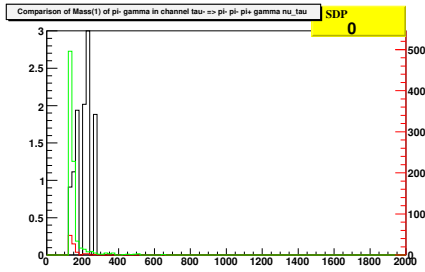


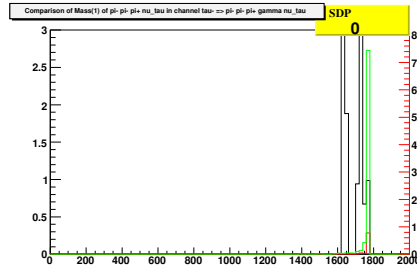
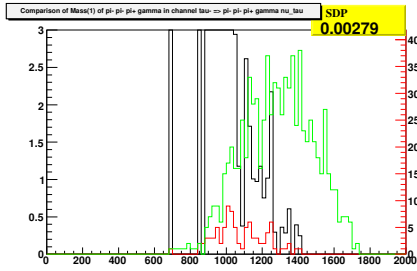
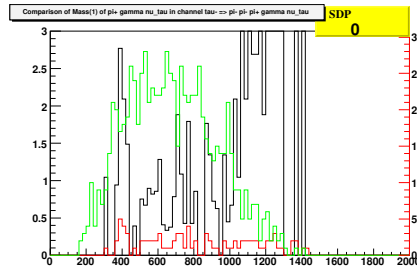
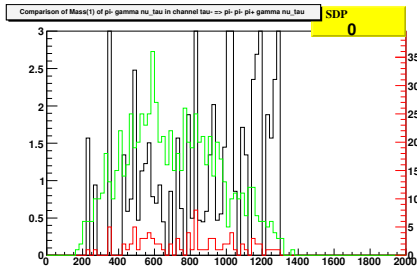
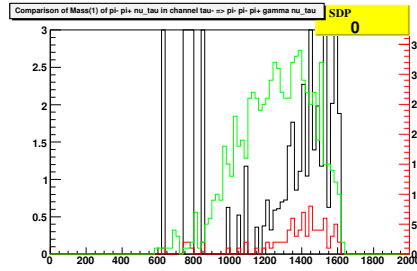
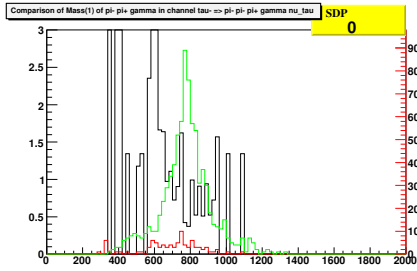
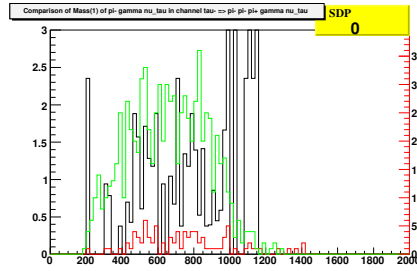
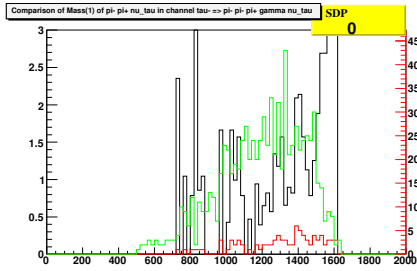
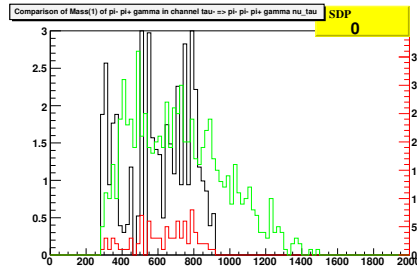
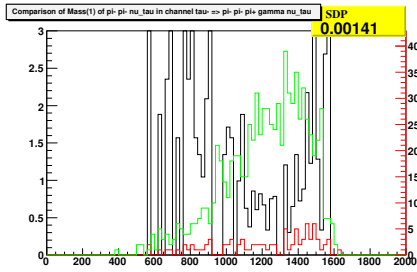
27 Decay Channel: $\tau^- \rightarrow \pi^- \pi^- \pi^+ \gamma \nu_\tau$

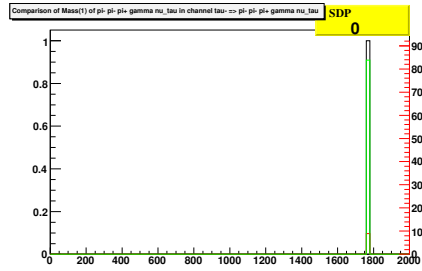
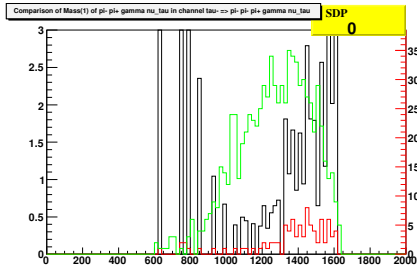
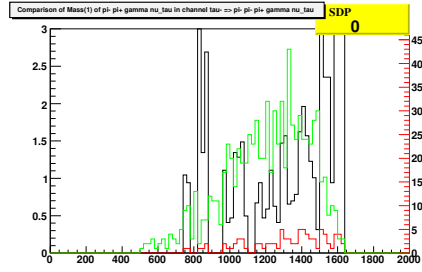
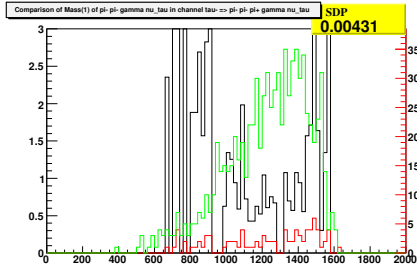
Number of events from generator 1: 89

Number of events from generator 2: 838





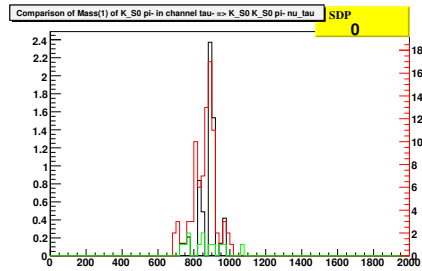
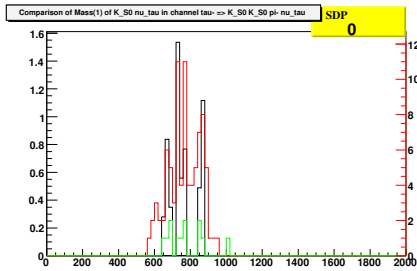
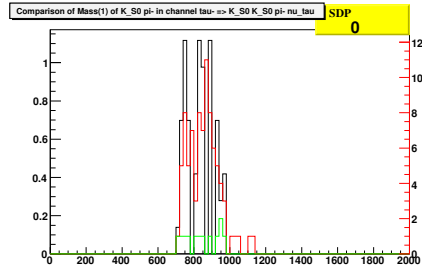
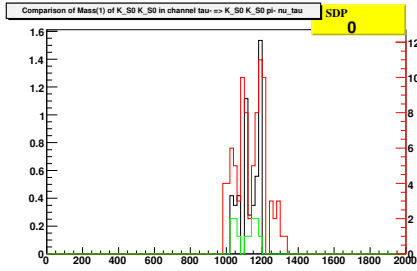


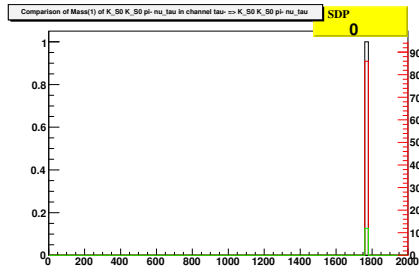
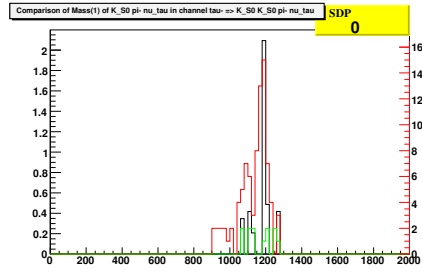
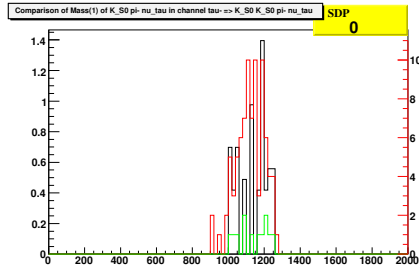
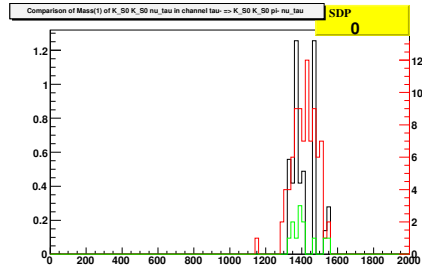
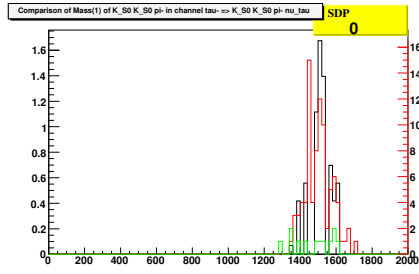
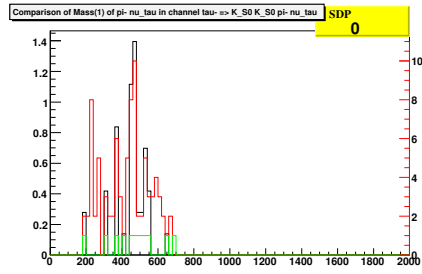
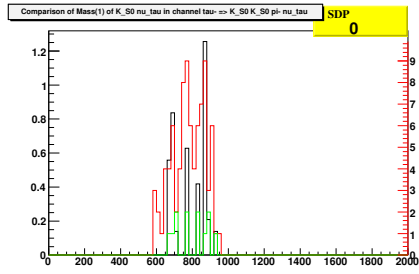


28 Decay Channel: $\tau^- \rightarrow K_S^0 K_S^0 \pi^- \nu_\tau$

Number of events from generator 1: 86

Number of events from generator 2: 12

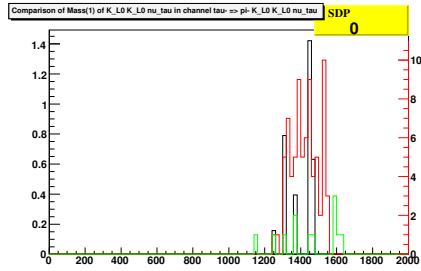
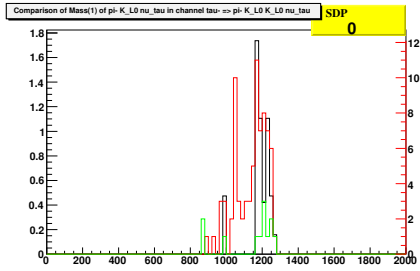
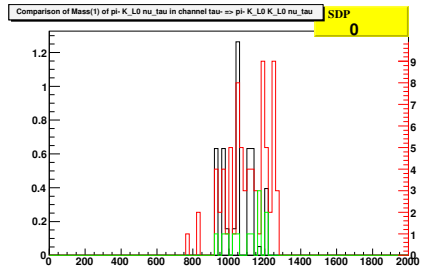
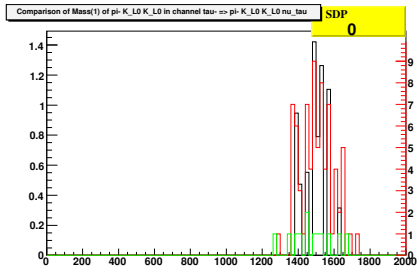
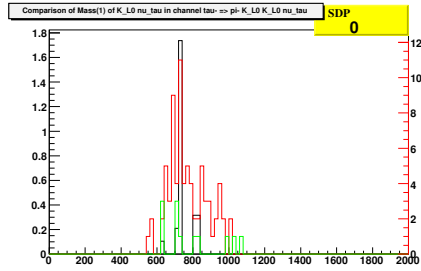
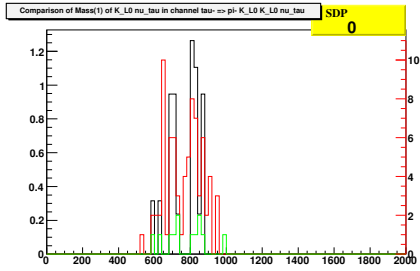
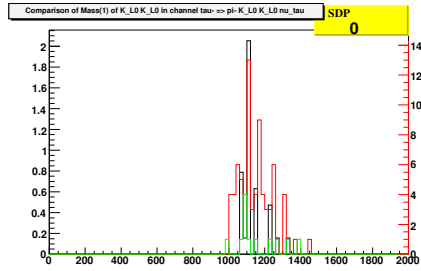
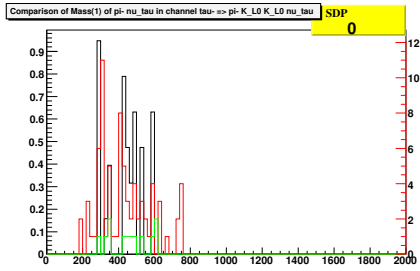
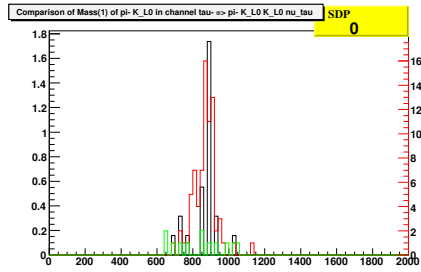
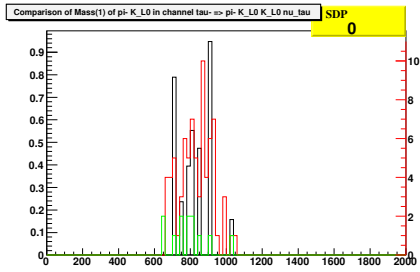


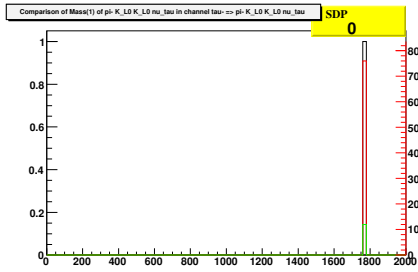


29 Decay Channel: $\tau^- \rightarrow \pi^- K_L^0 K_L^0 \nu_\tau$

Number of events from generator 1: 76

Number of events from generator 2: 12

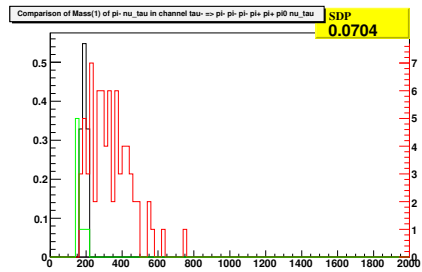
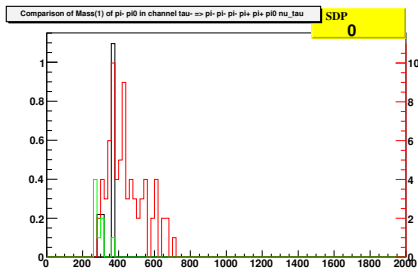
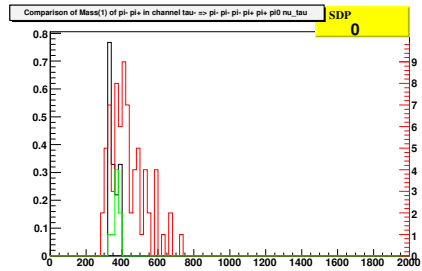
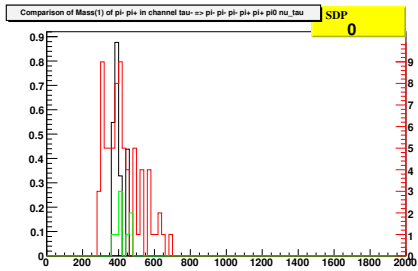
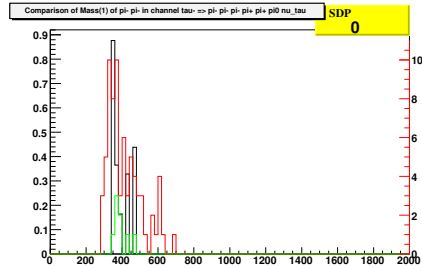
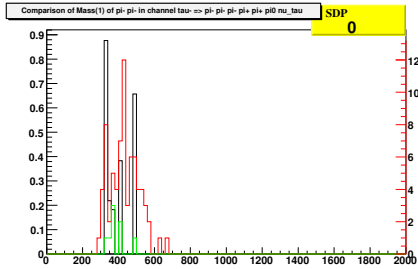


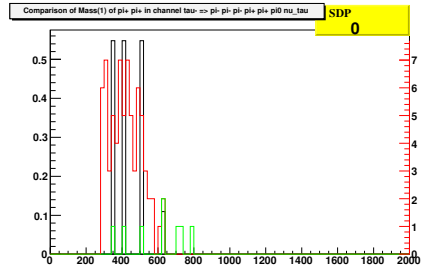
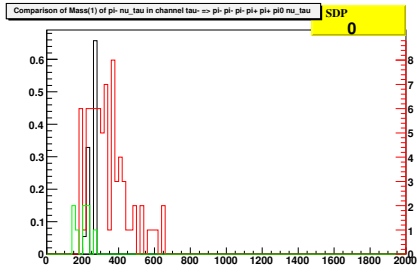
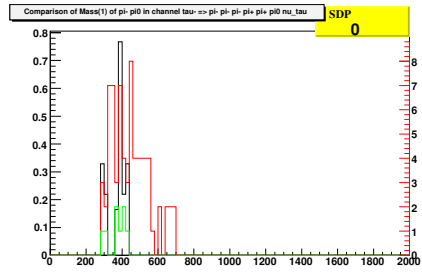
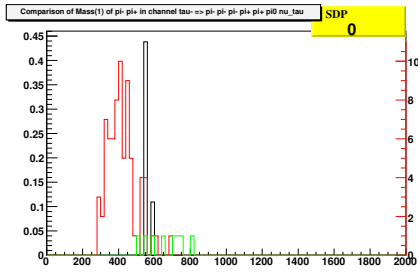
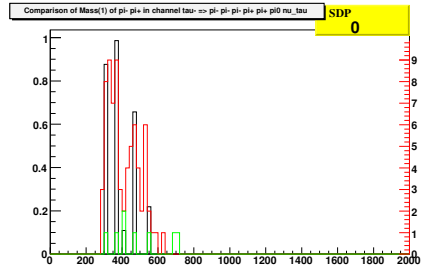
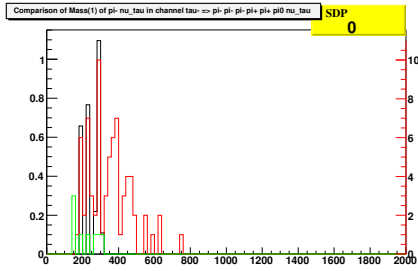
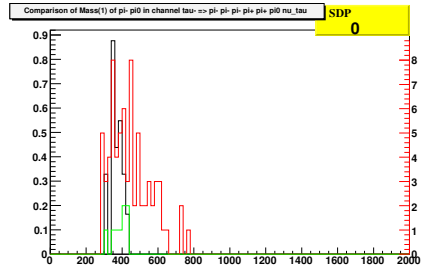
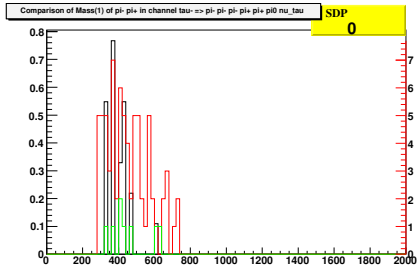
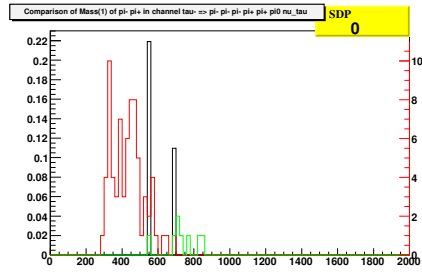
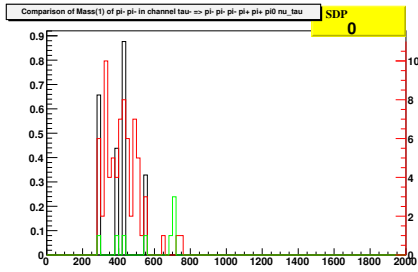


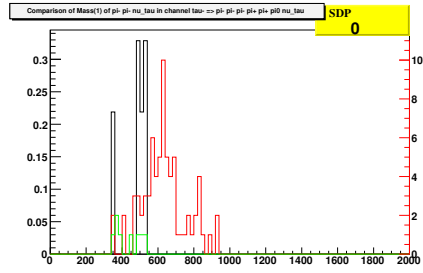
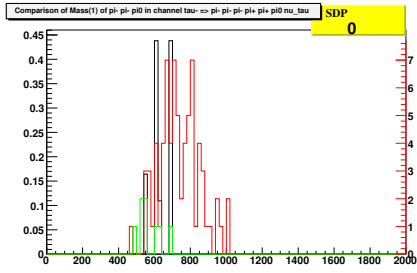
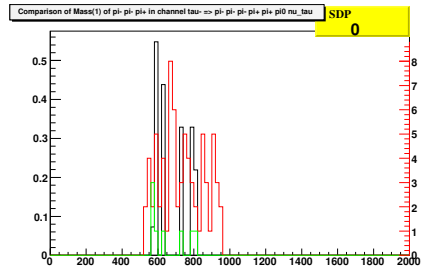
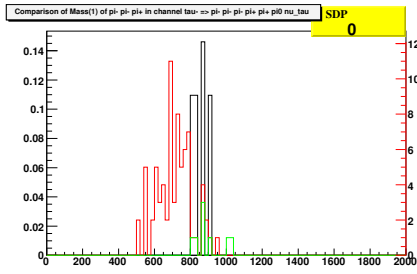
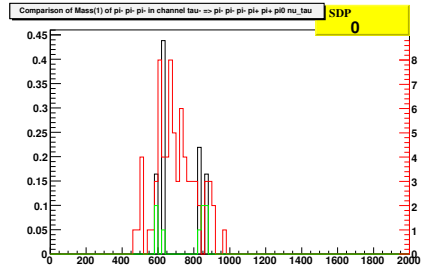
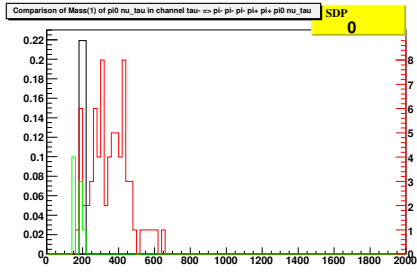
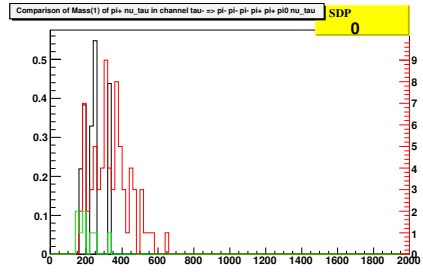
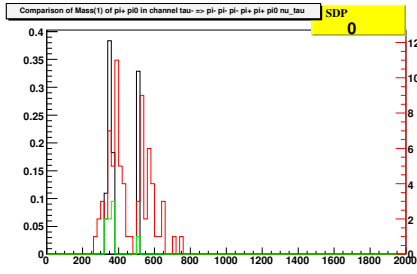
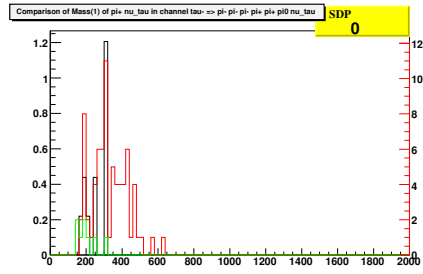
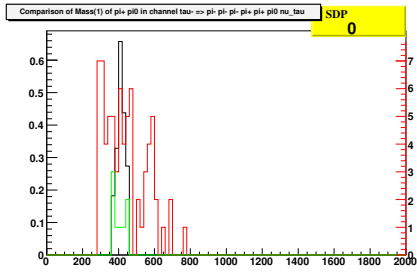
30 Decay Channel: $\tau^- \rightarrow \pi^- \pi^- \pi^- \pi^+ \pi^+ \pi^0 \nu_\tau$

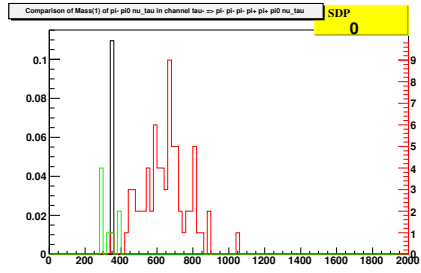
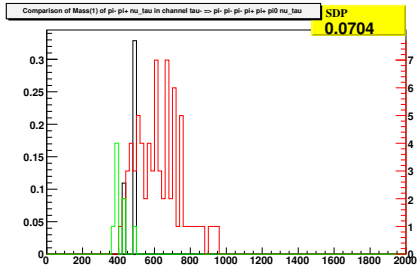
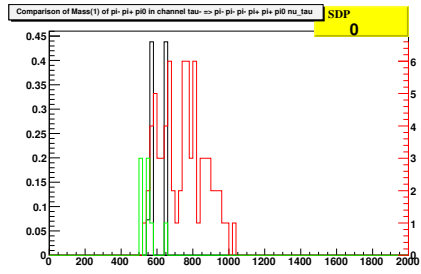
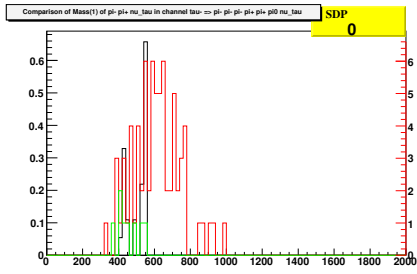
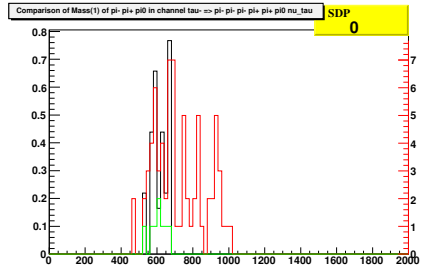
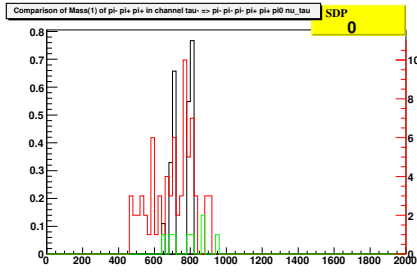
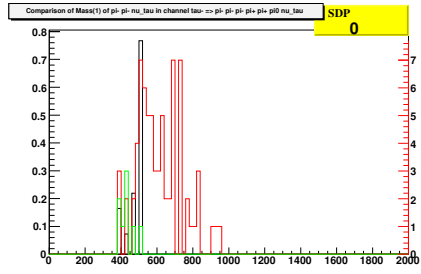
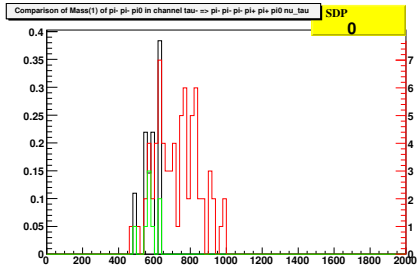
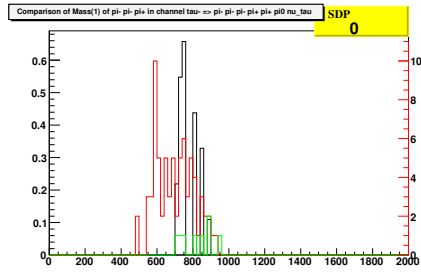
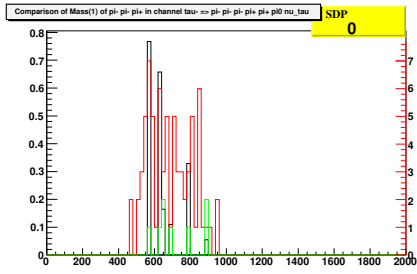
Number of events from generator 1: 73

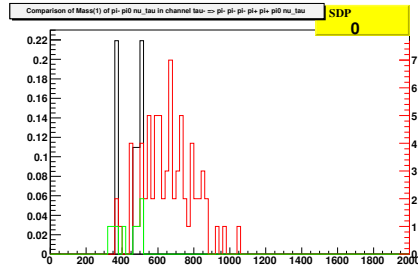
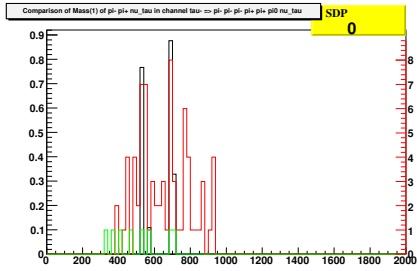
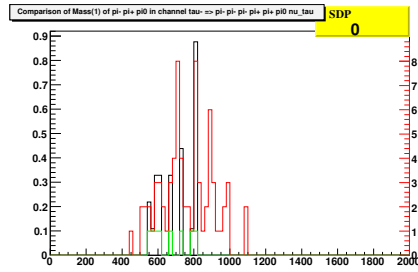
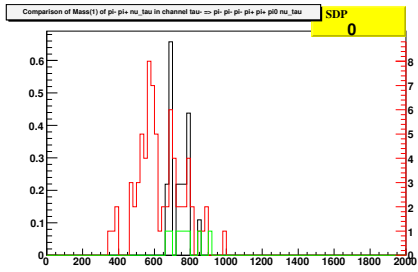
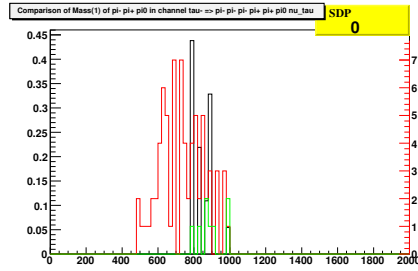
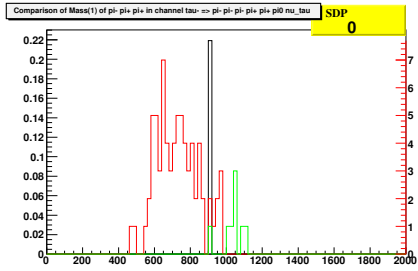
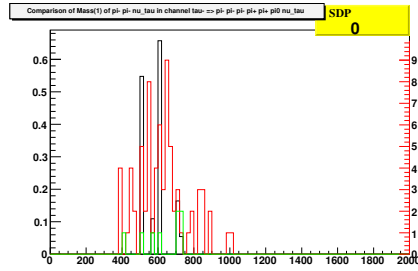
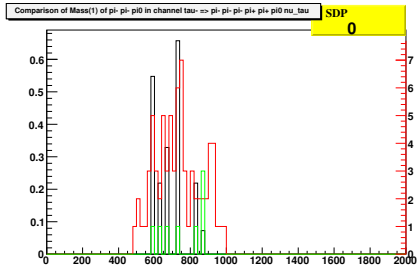
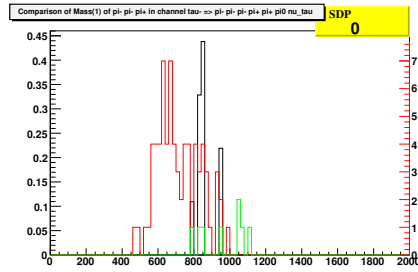
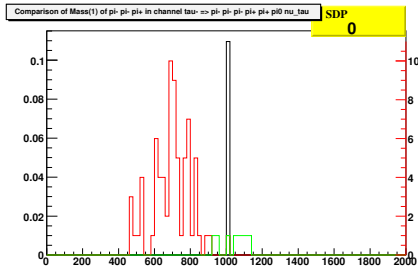
Number of events from generator 2: 8

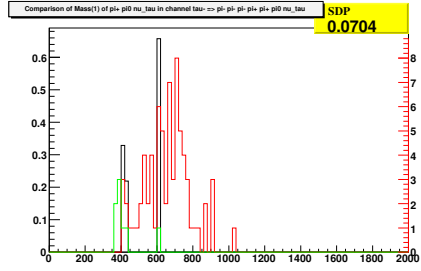
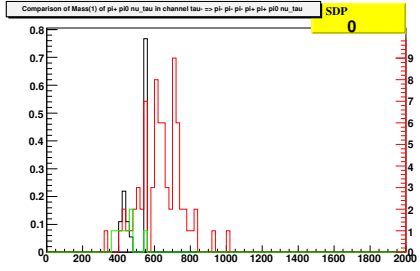
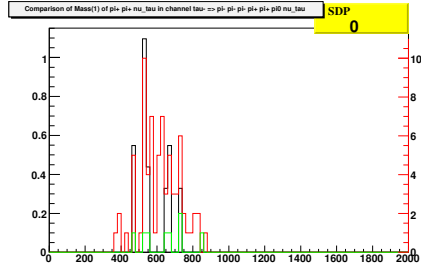
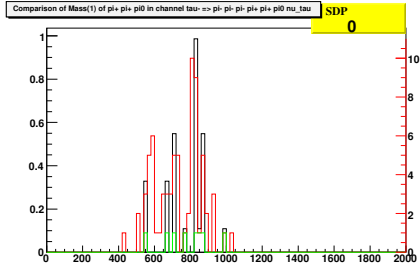
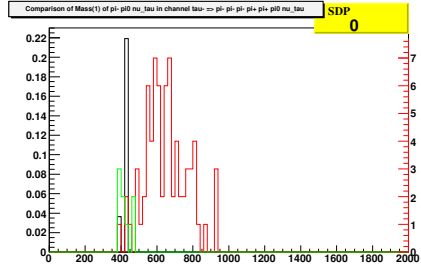
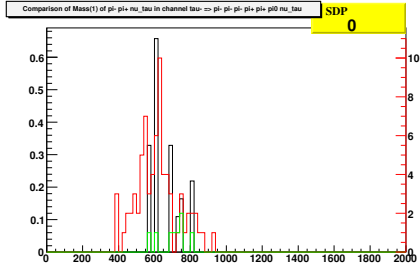
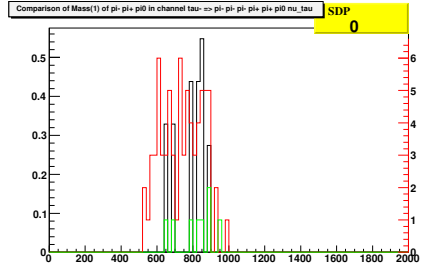
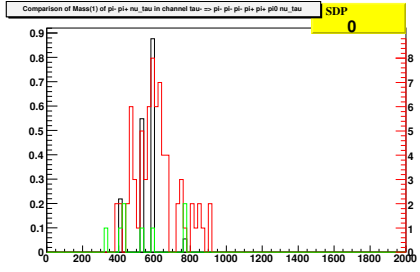
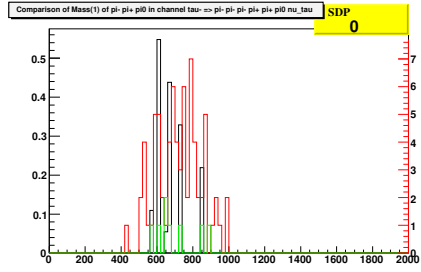
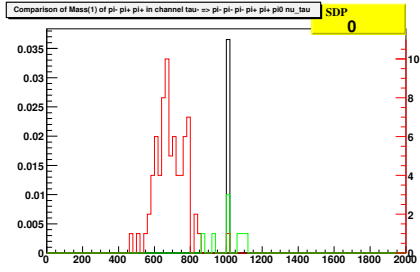


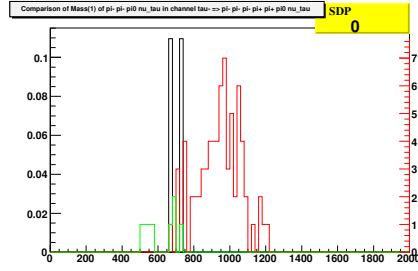
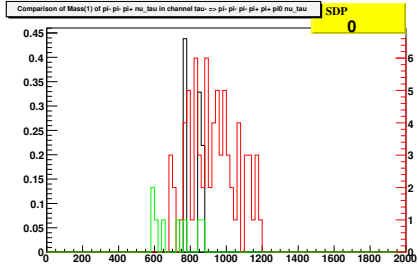
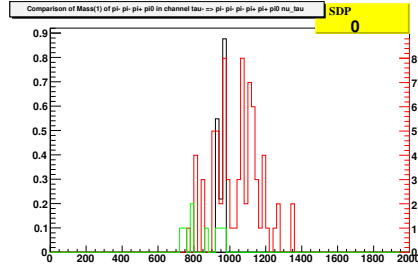
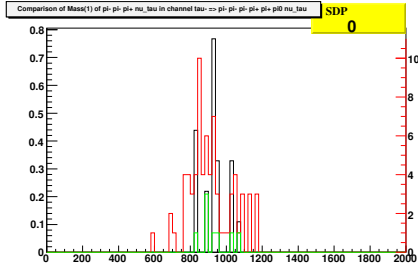
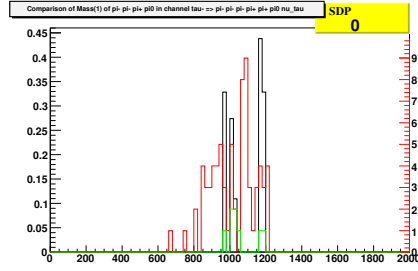
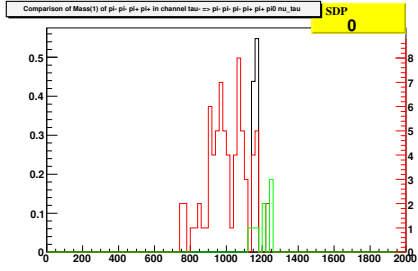
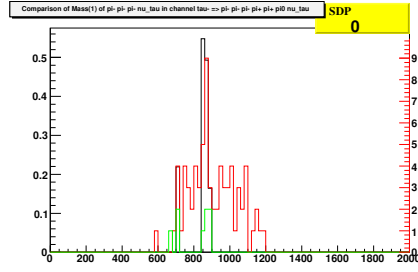
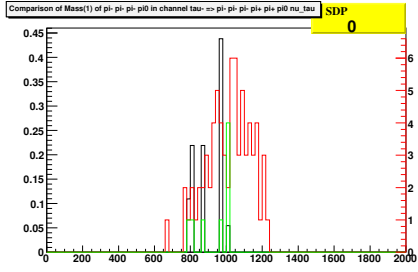
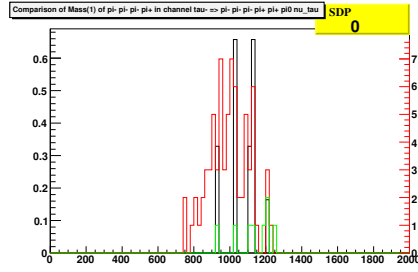
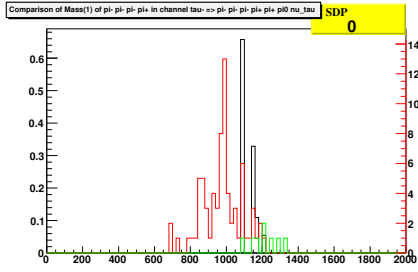


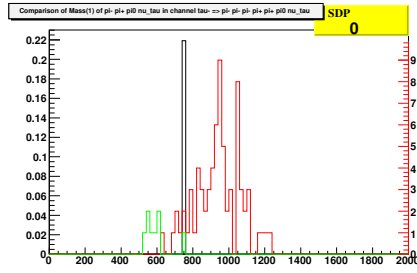
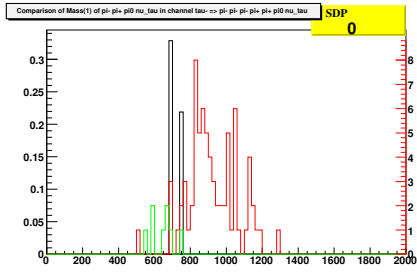
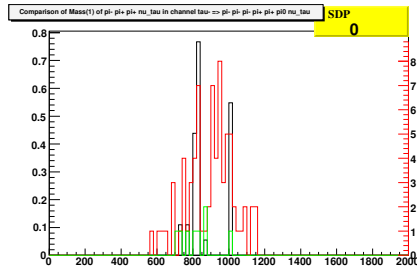
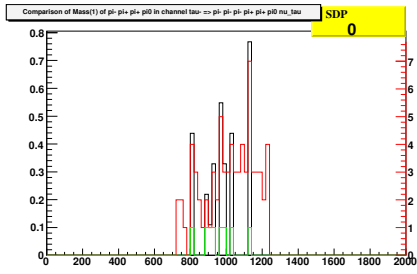
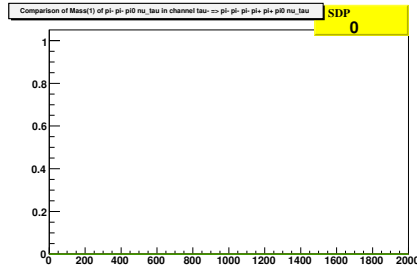
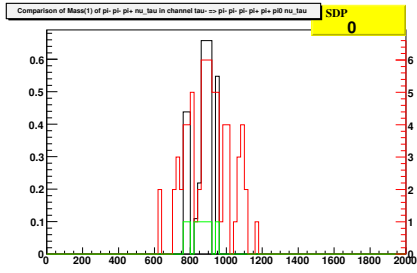
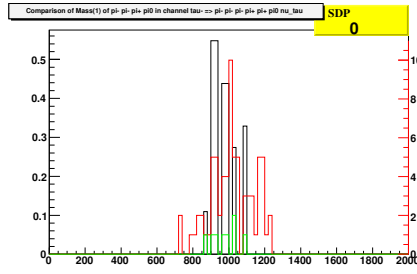
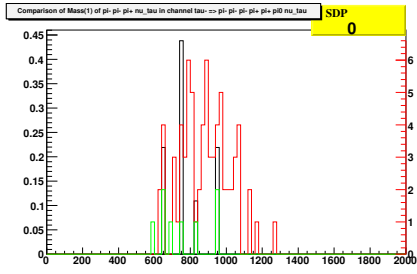
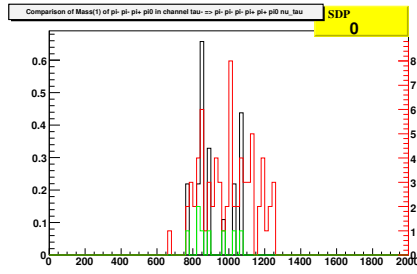
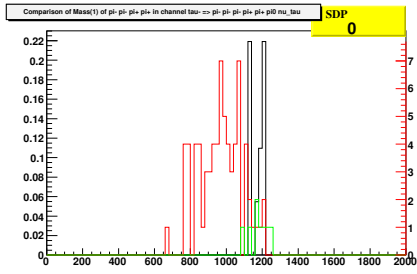


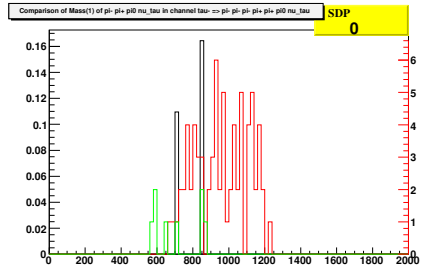
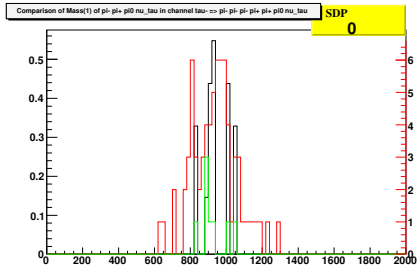
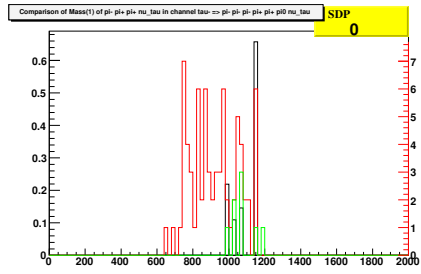
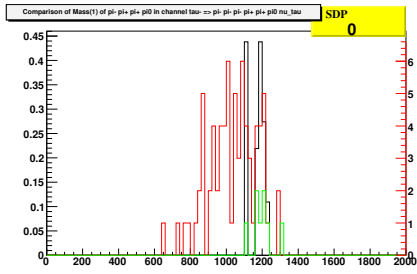
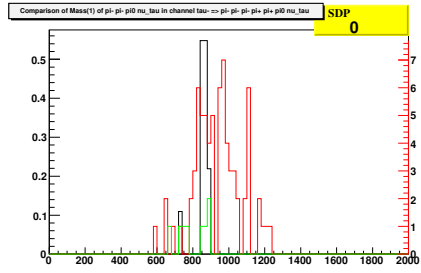
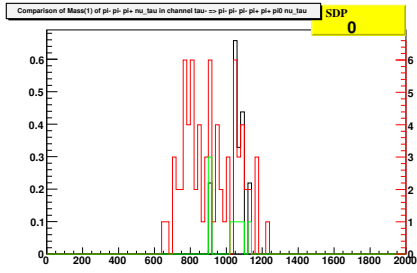
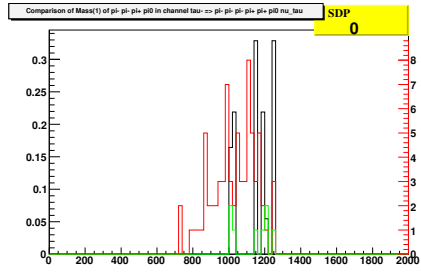
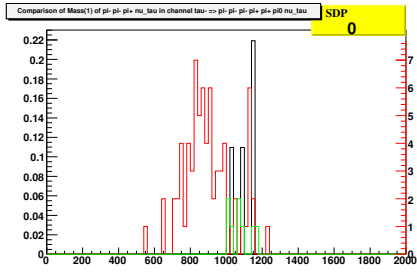
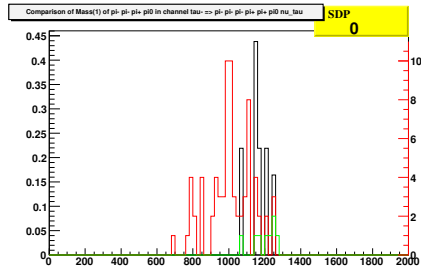
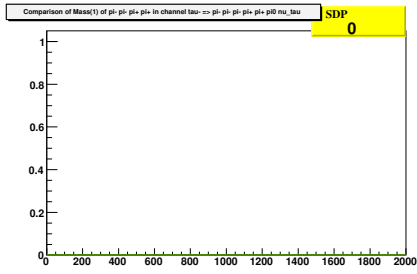


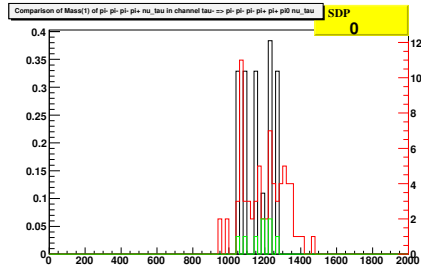
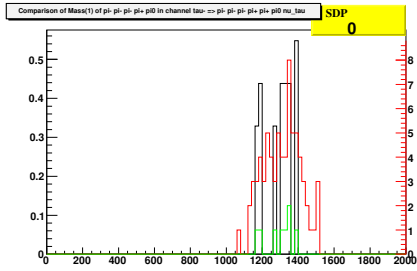
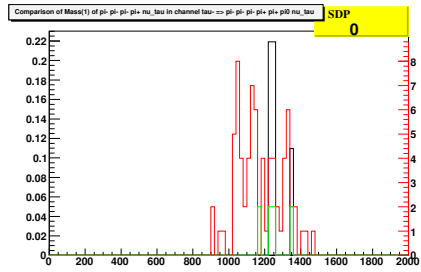
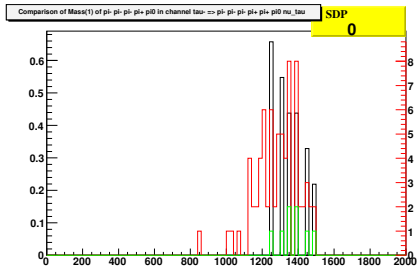
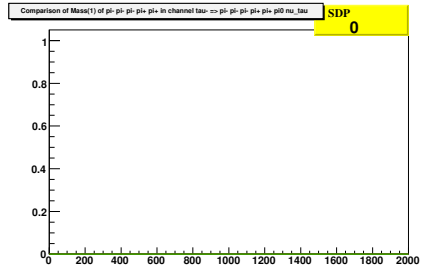
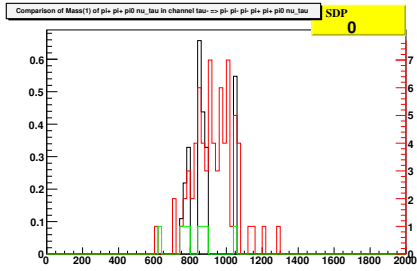
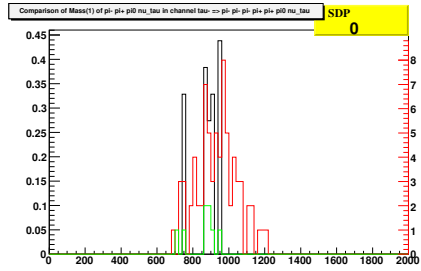
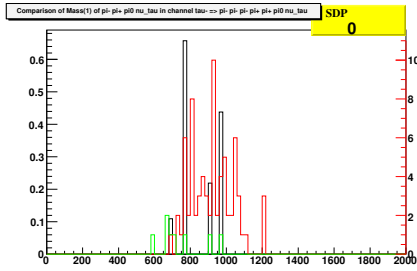
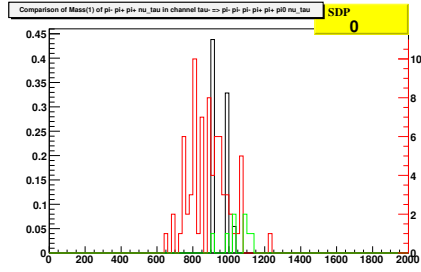
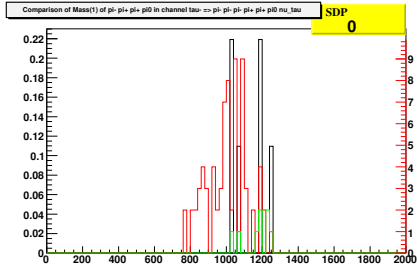


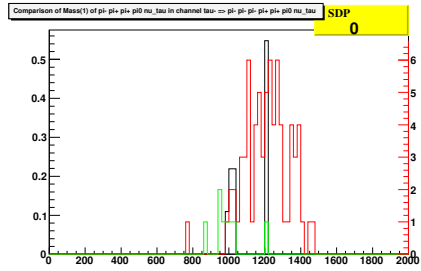
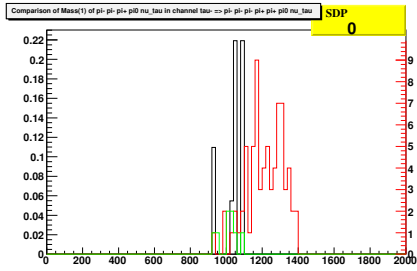
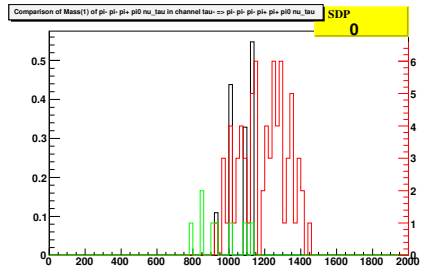
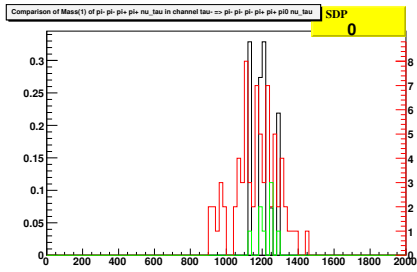
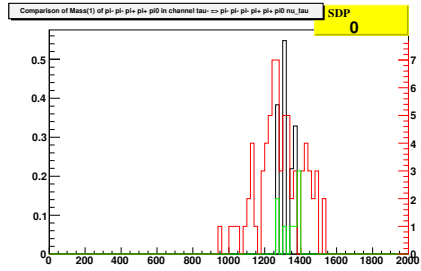
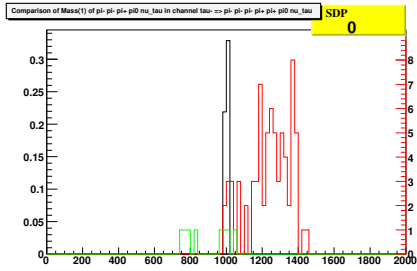
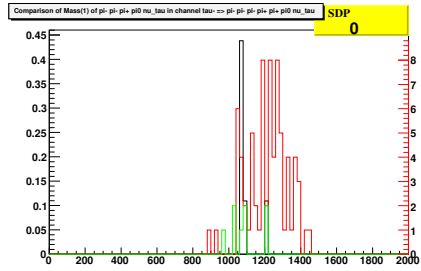
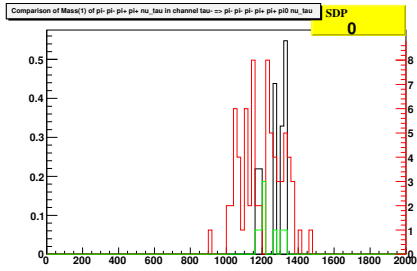
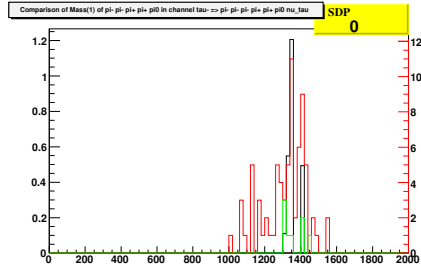
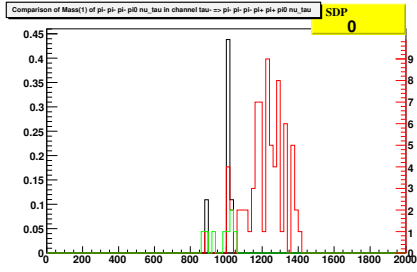


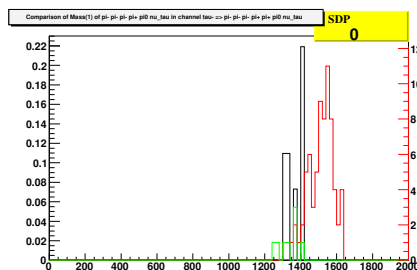
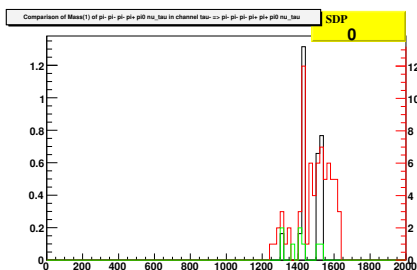
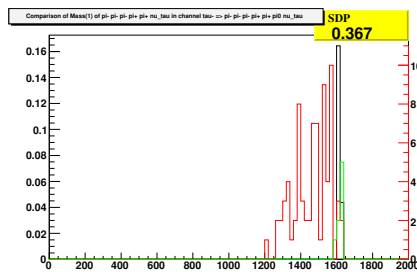
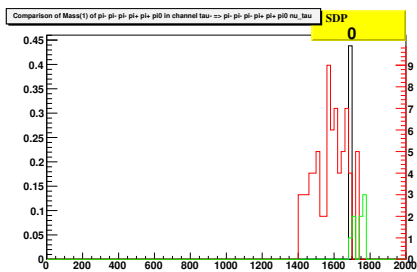
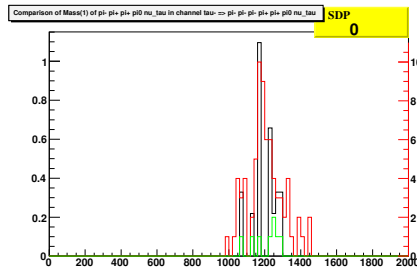
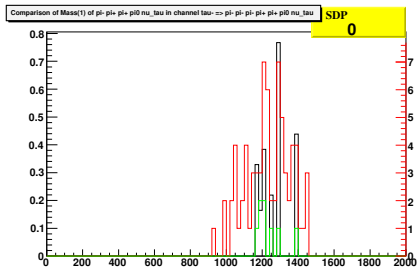
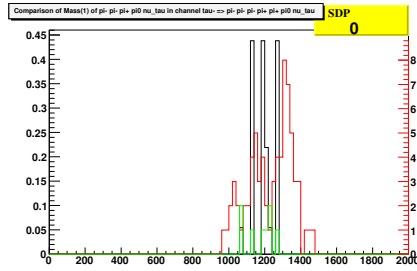
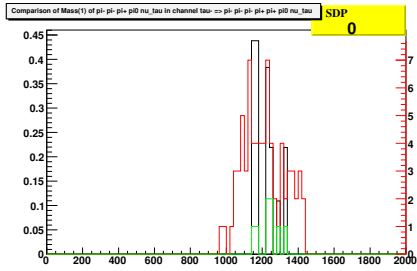
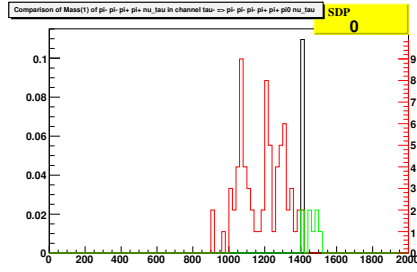
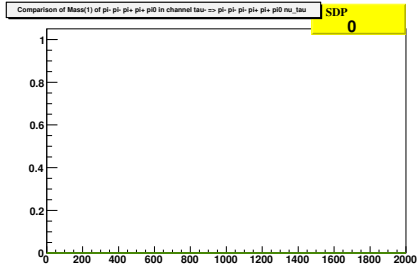


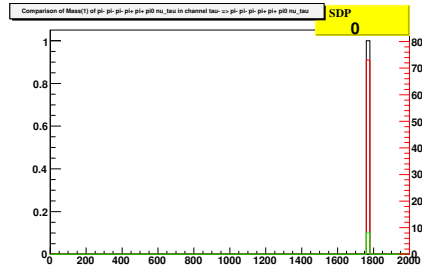
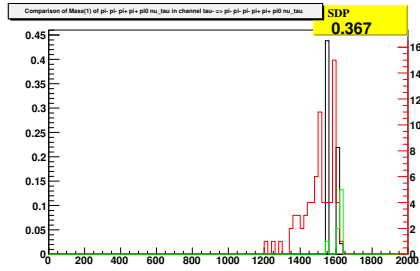
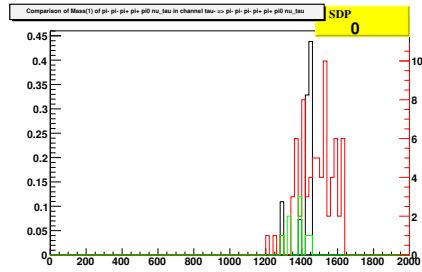
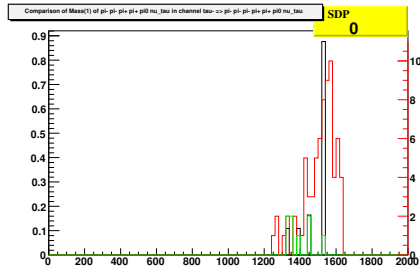








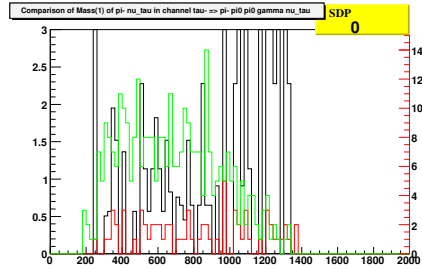
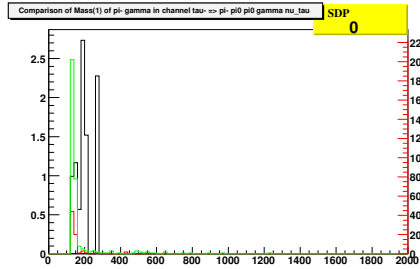
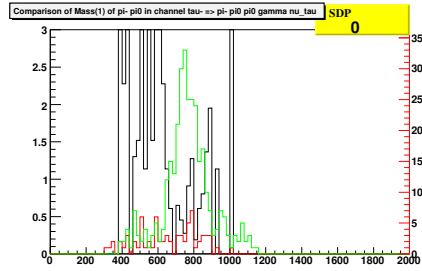
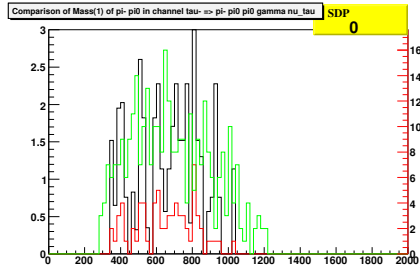


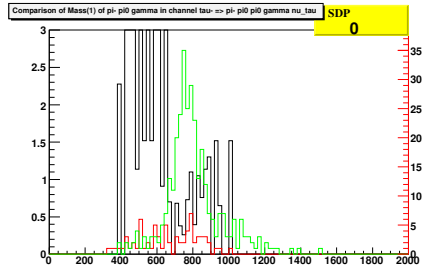
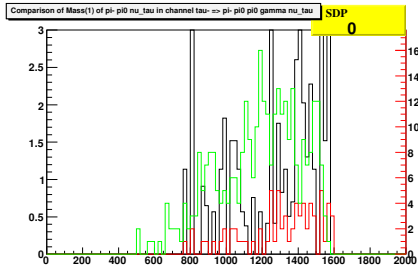
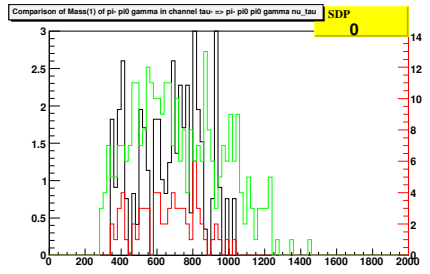
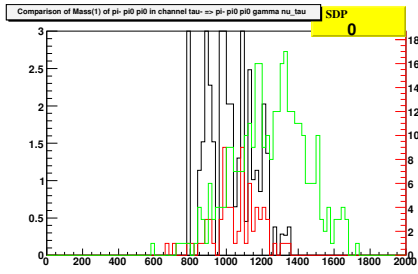
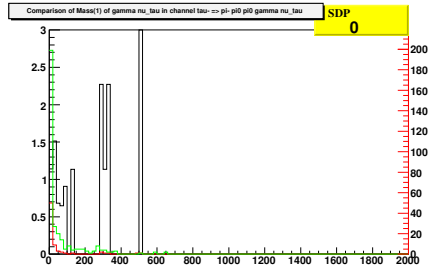
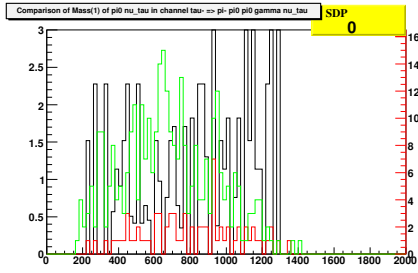
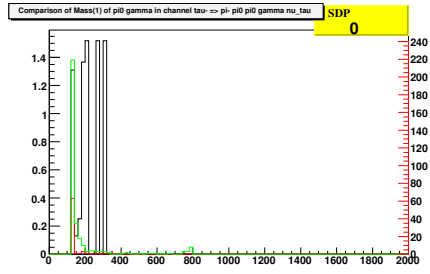
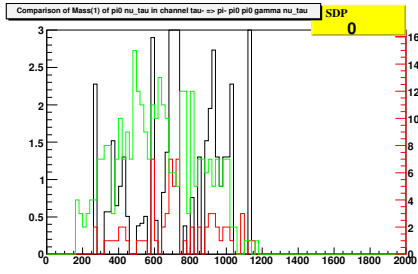
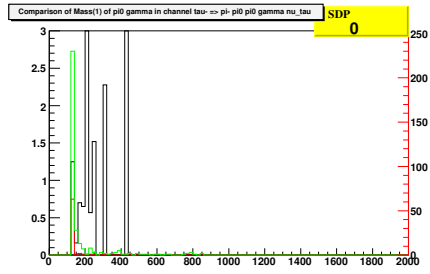
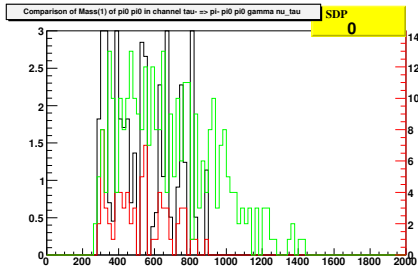


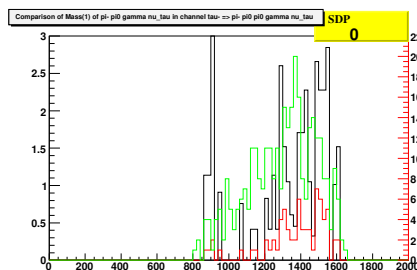
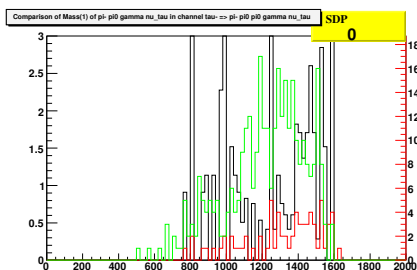
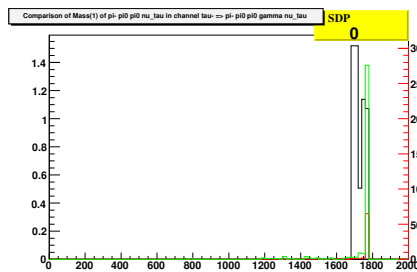
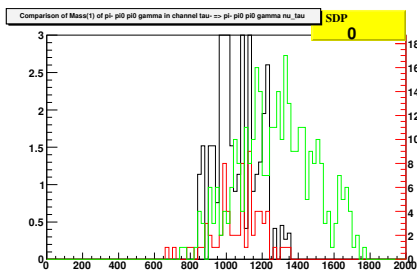
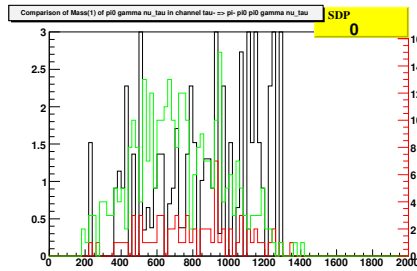
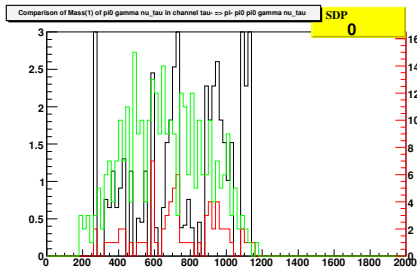
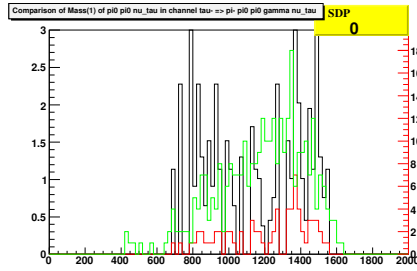
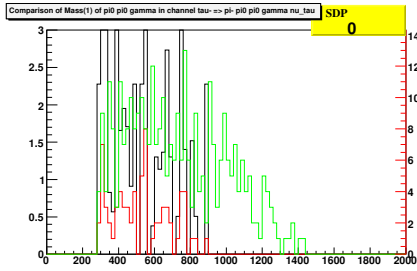
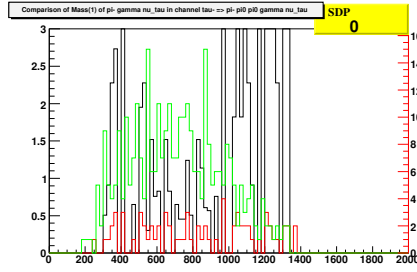
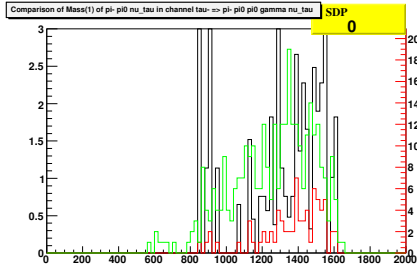
31 Decay Channel: $\tau^- \rightarrow \pi^- \pi^0 \pi^0 \gamma \nu_\tau$

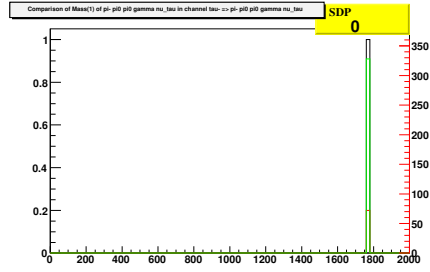
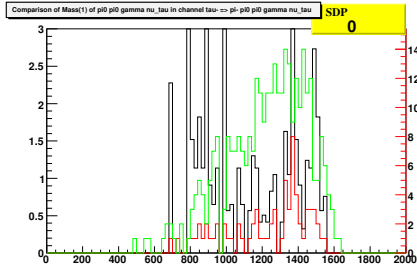
Number of events from generator 1: 72

Number of events from generator 2: 328





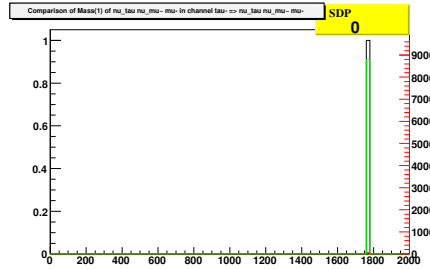
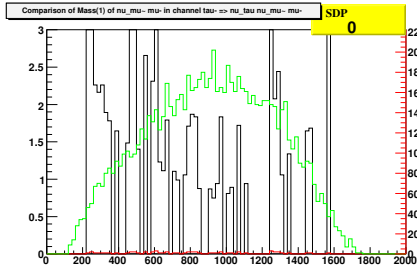
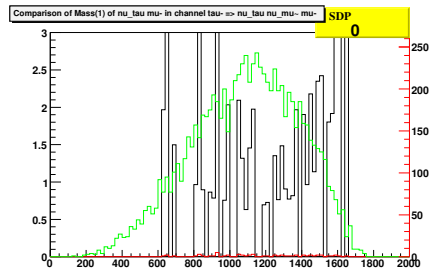
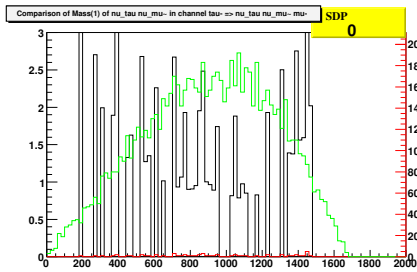




32 Decay Channel: $\tau^- \rightarrow \nu_\tau \tilde{\nu}_\mu \mu^-$

Number of events from generator 1: 58

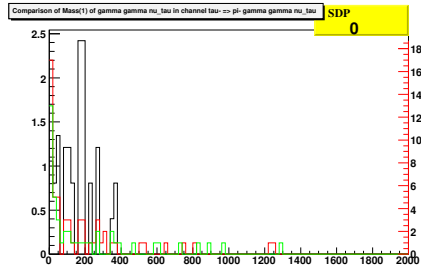
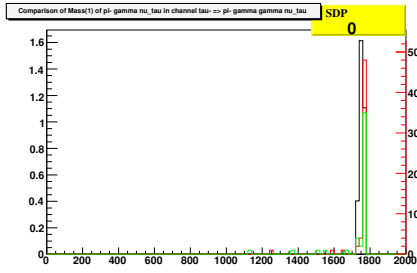
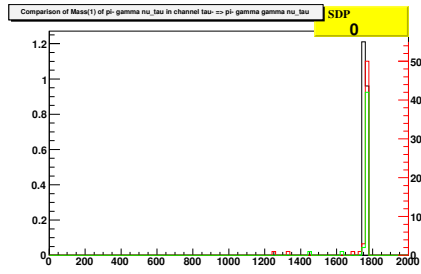
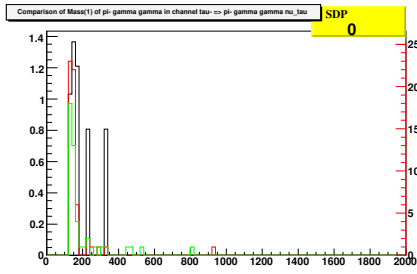
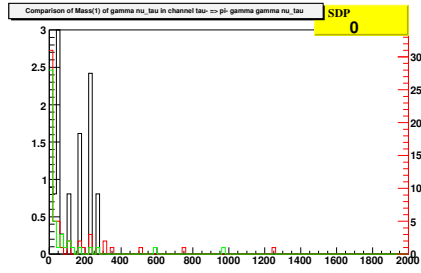
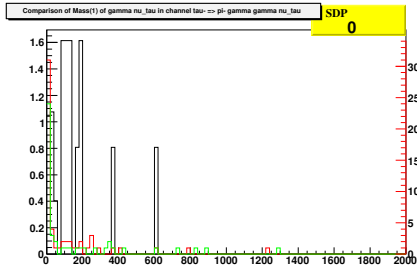
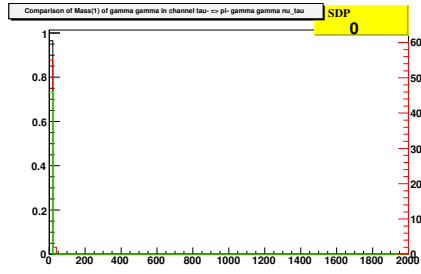
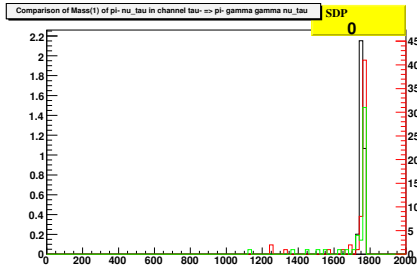
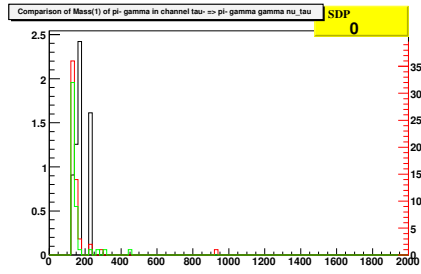
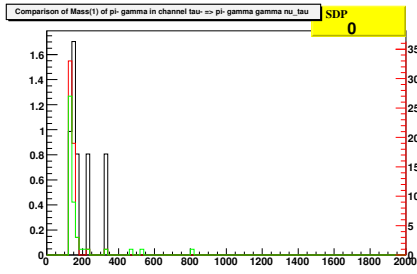
Number of events from generator 2: 8783

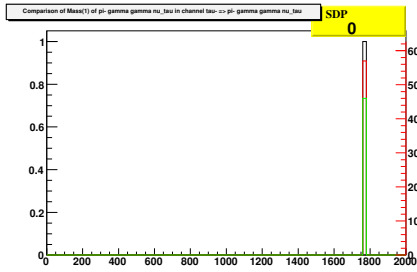


33 Decay Channel: $\tau^- \rightarrow \pi^- \gamma \nu_\tau$

Number of events from generator 1: 57

Number of events from generator 2: 46

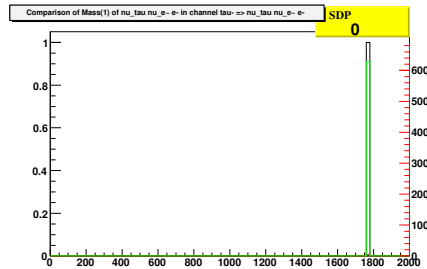
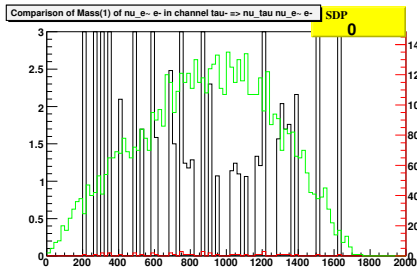
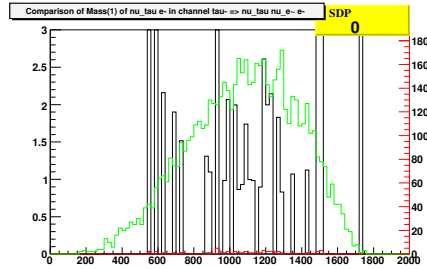
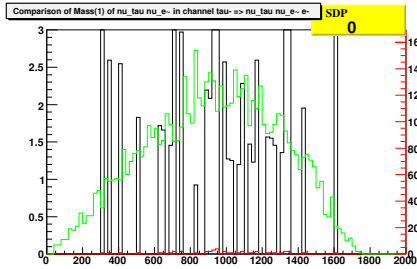




34 Decay Channel: $\tau^- \rightarrow \nu_\tau \tilde{\nu}_e e^-$

Number of events from generator 1: 44

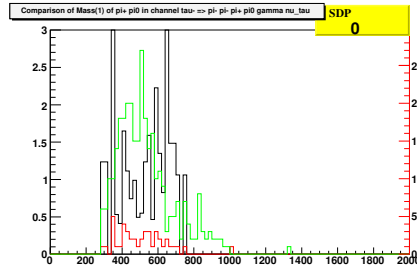
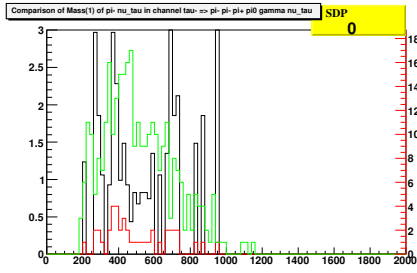
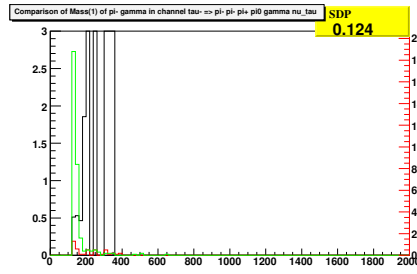
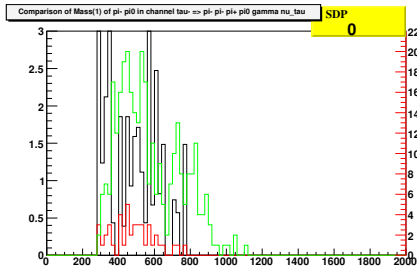
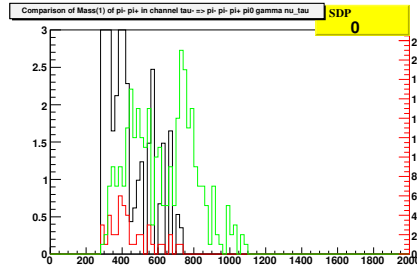
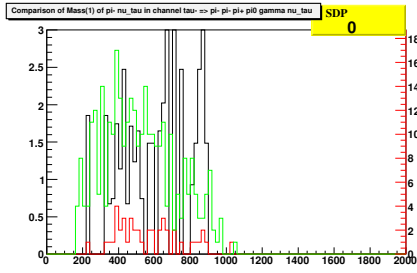
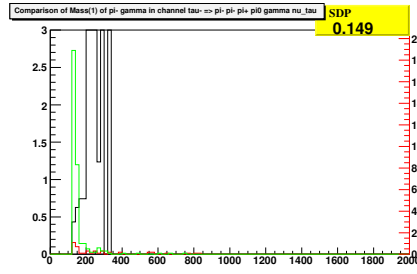
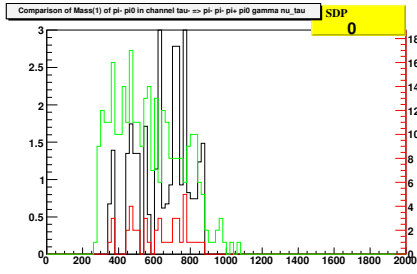
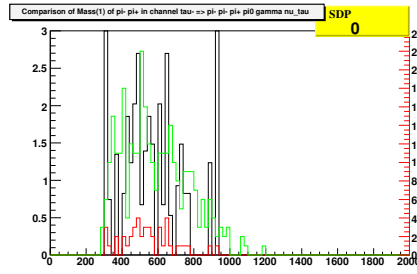
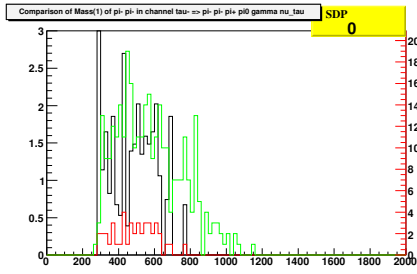
Number of events from generator 2: 6277

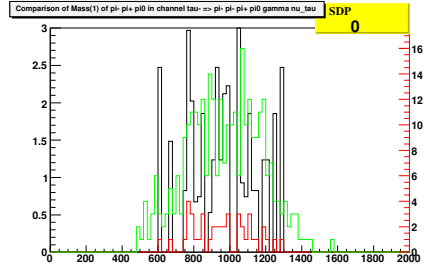
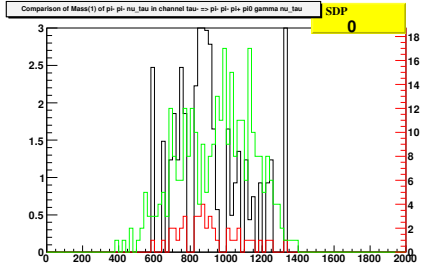
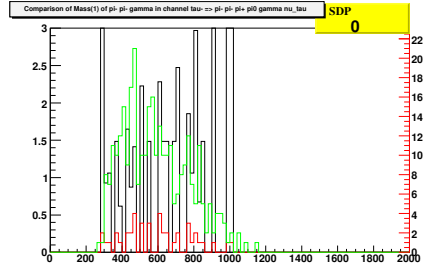
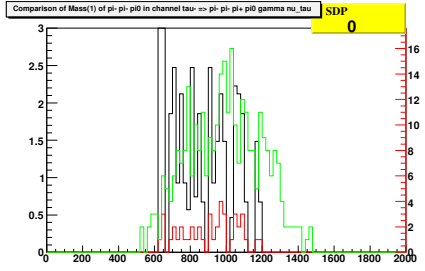
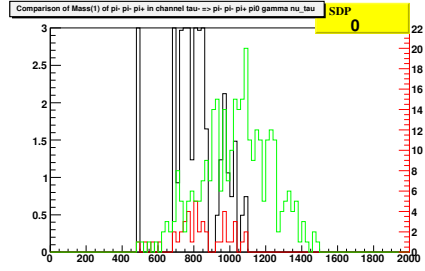
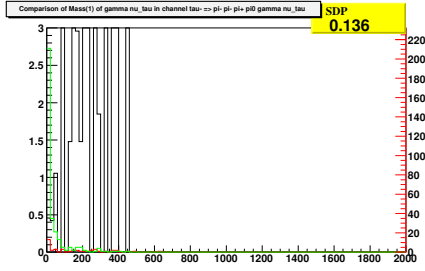
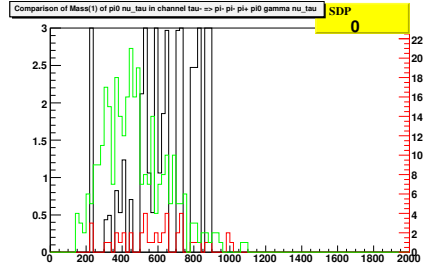
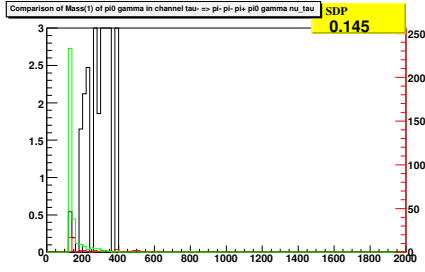
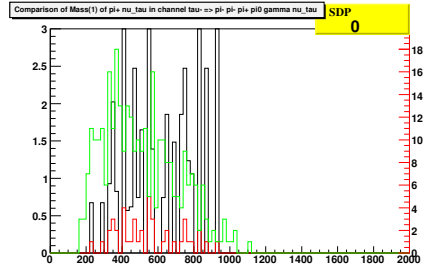
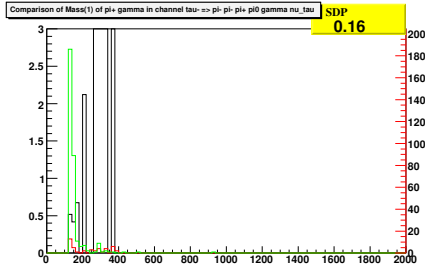


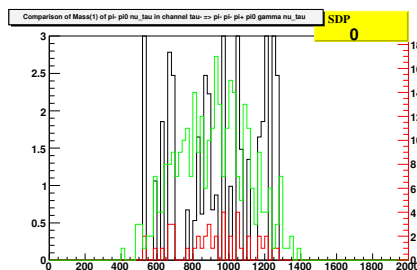
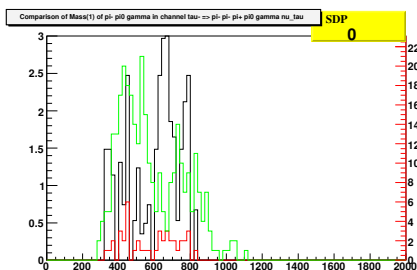
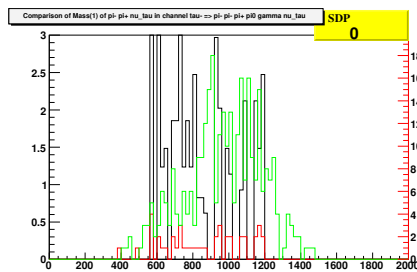
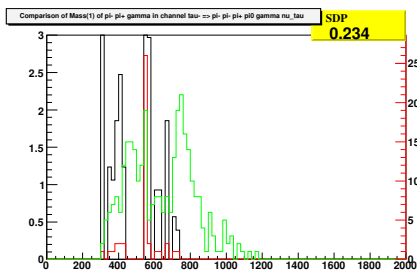
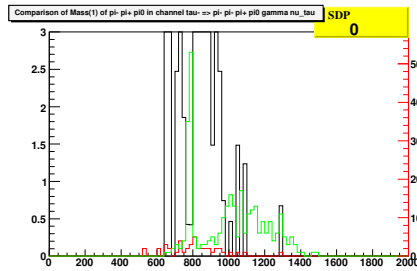
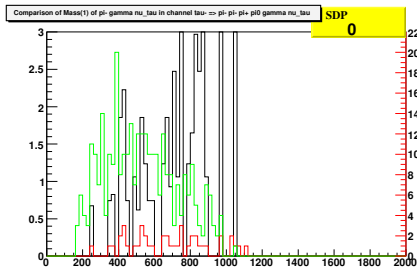
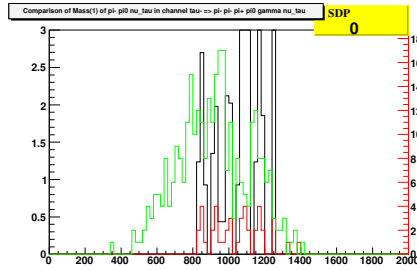
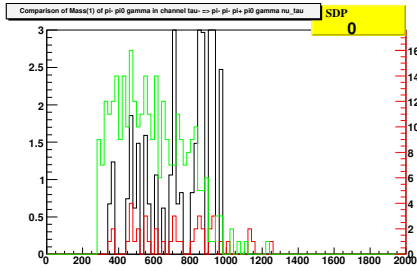
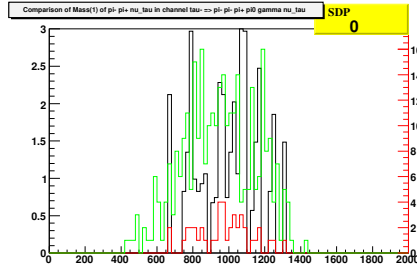
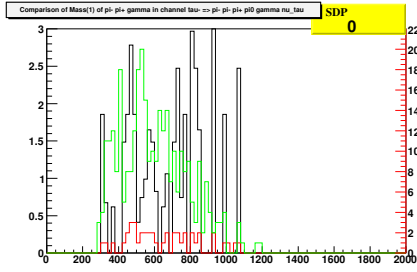
35 Decay Channel: $\tau^- \rightarrow \pi^- \pi^- \pi^+ \pi^0 \gamma \nu_\tau$

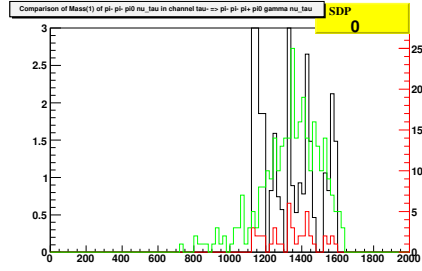
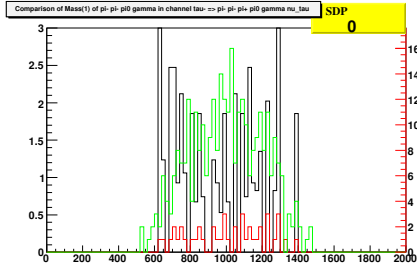
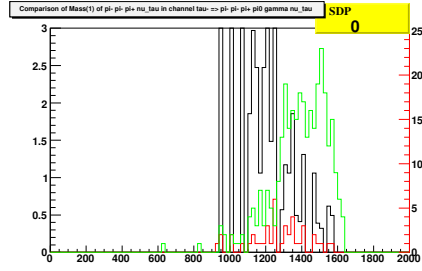
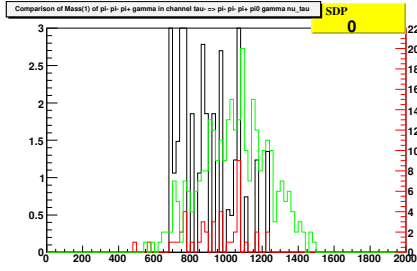
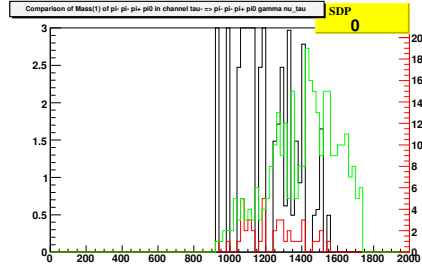
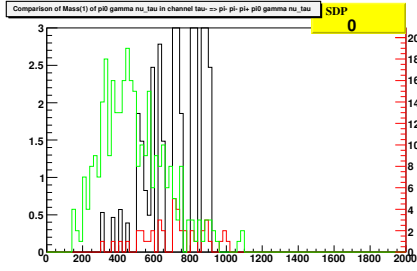
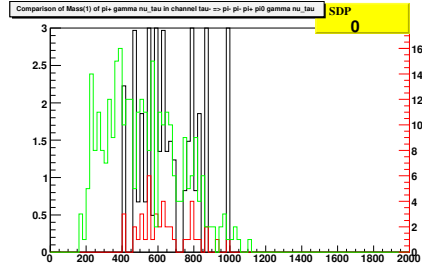
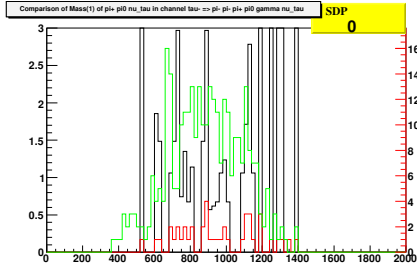
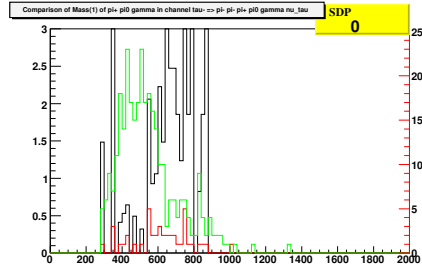
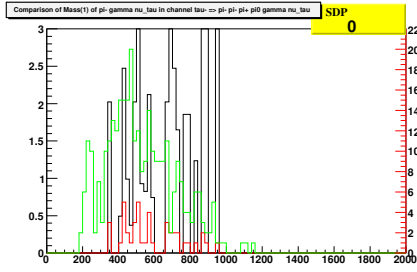
Number of events from generator 1: 43

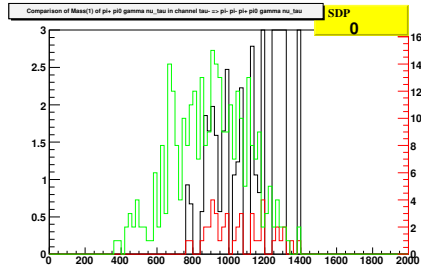
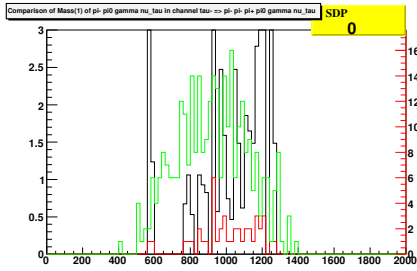
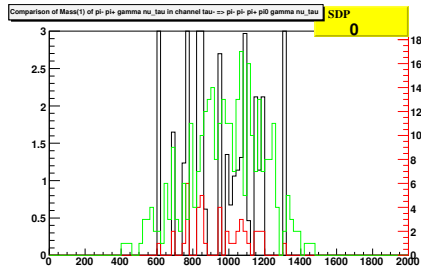
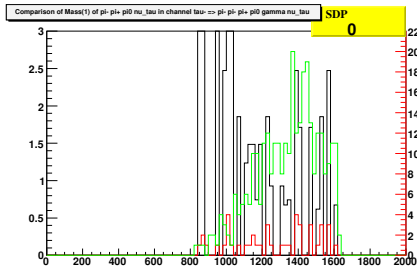
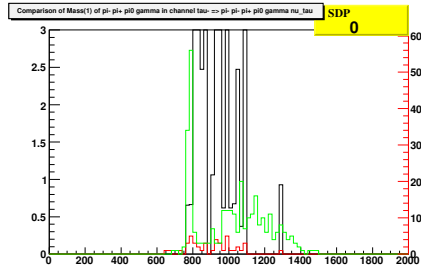
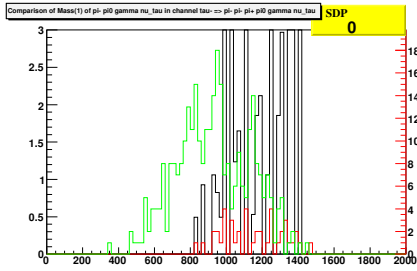
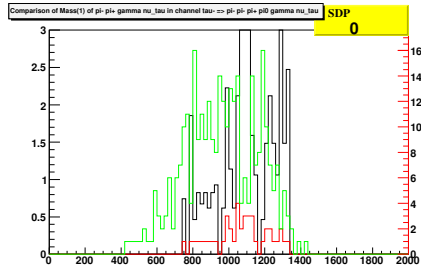
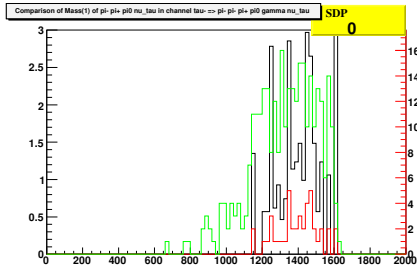
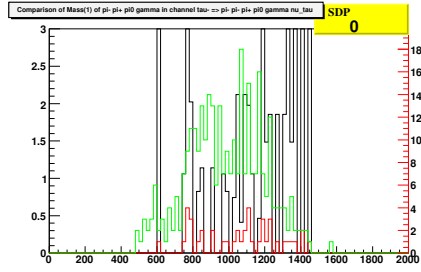
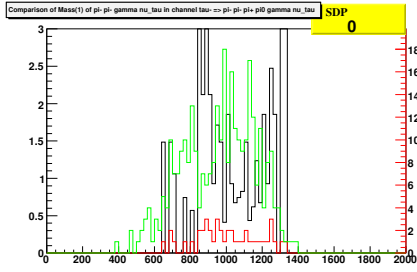
Number of events from generator 2: 319

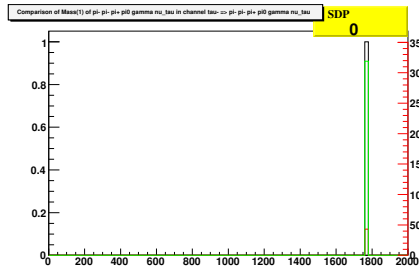
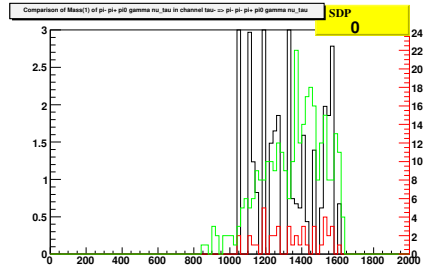
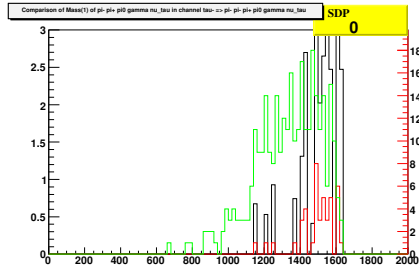
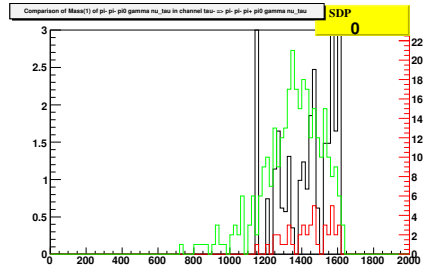
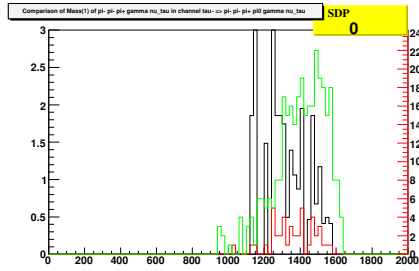
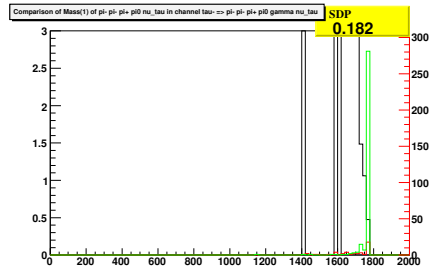
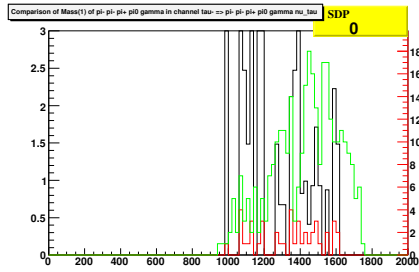








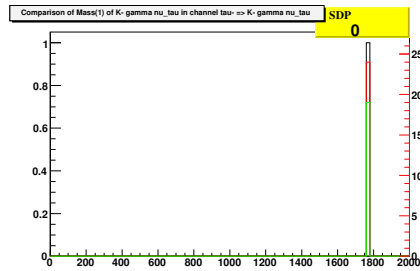
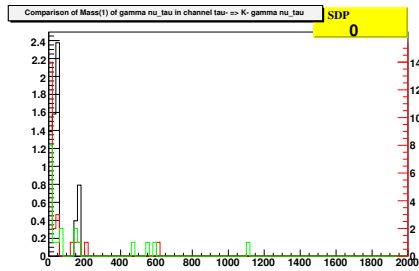
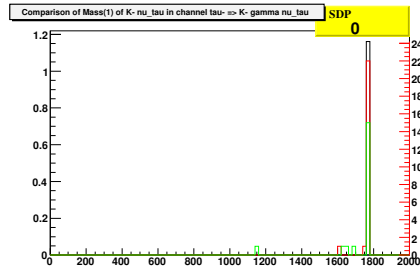
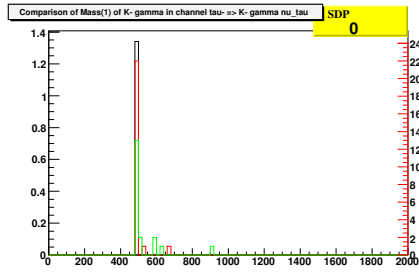




36 Decay Channel: $\tau^- \rightarrow K^- \gamma \nu_\tau$

Number of events from generator 1: 24

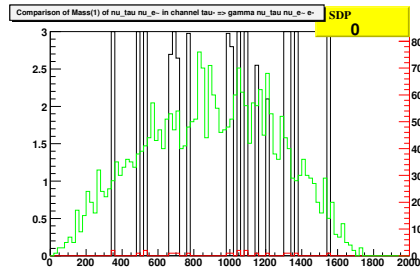
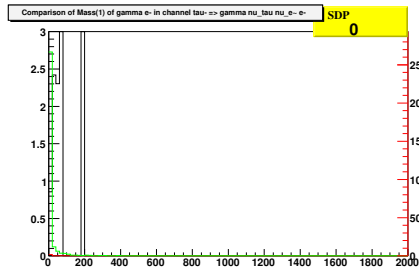
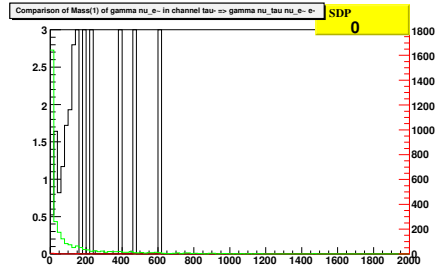
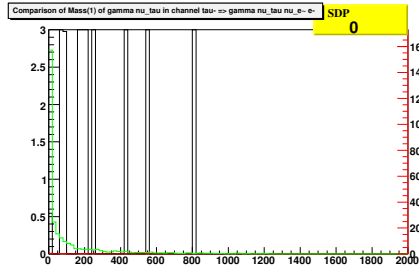
Number of events from generator 2: 19

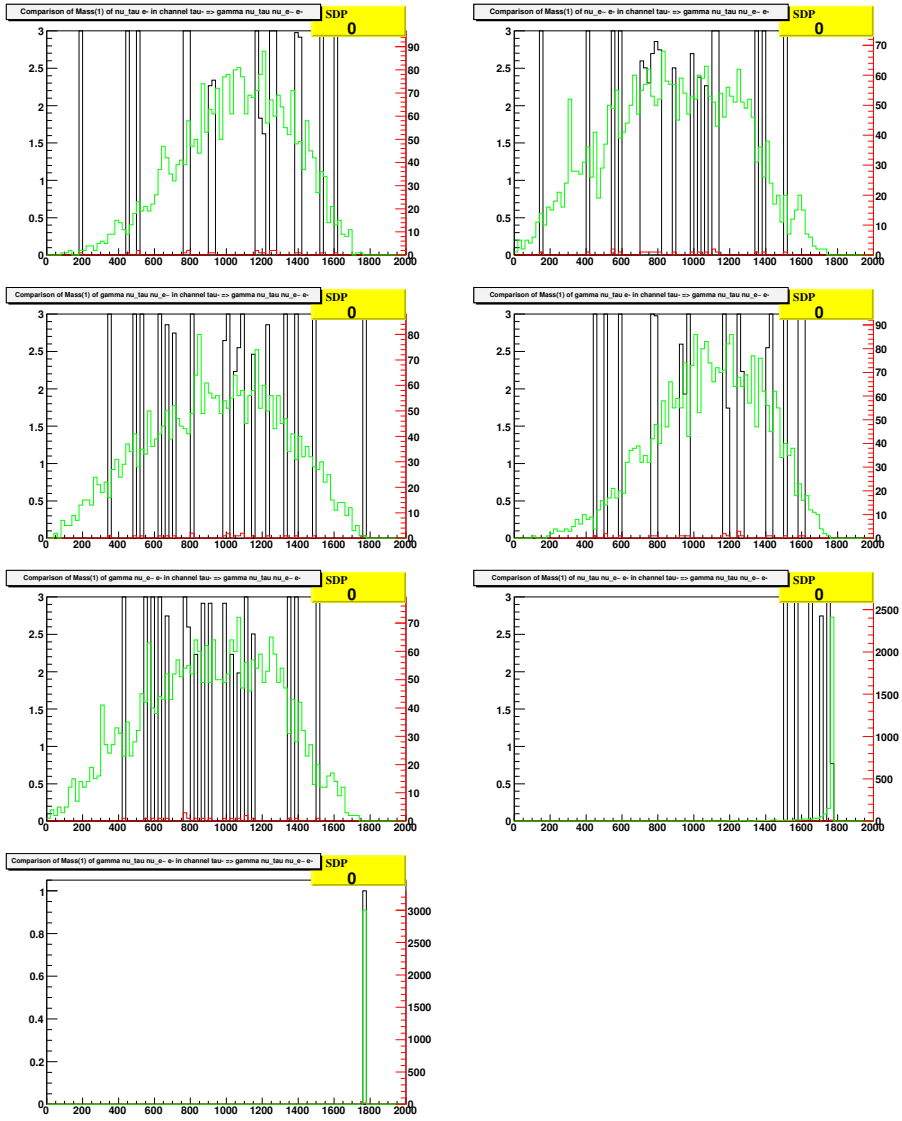


37 Decay Channel: $\tau^- \rightarrow \gamma \nu_\tau \tilde{\nu}_e e^-$

Number of events from generator 1: 21

Number of events from generator 2: 2999

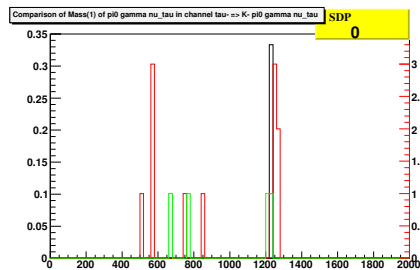
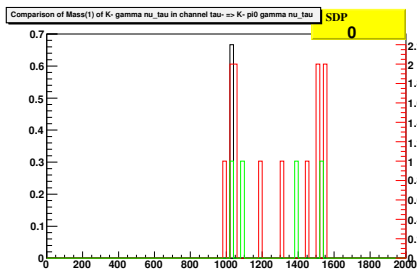
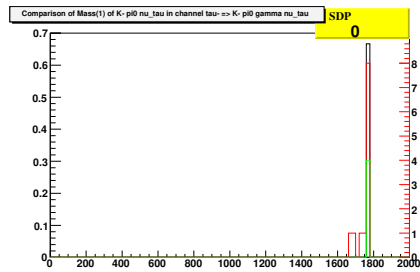
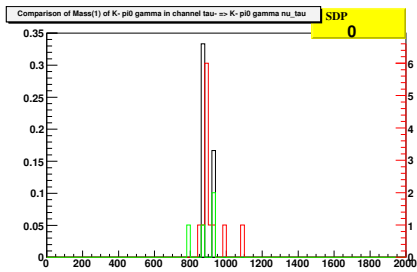
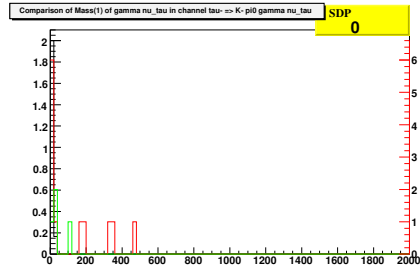
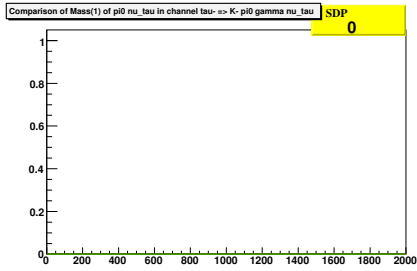
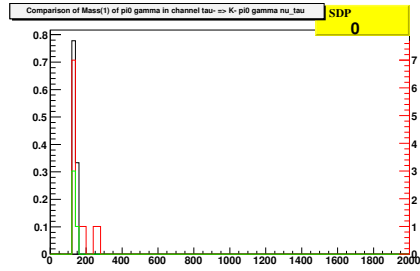
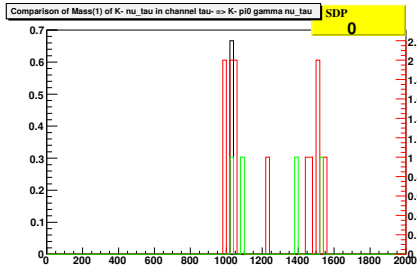
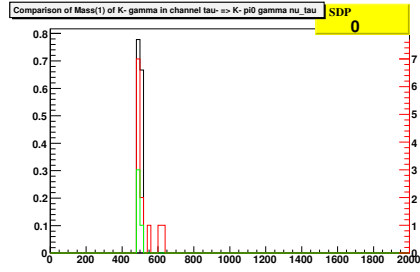
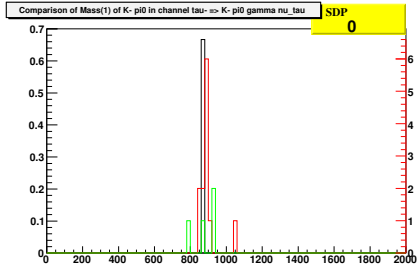


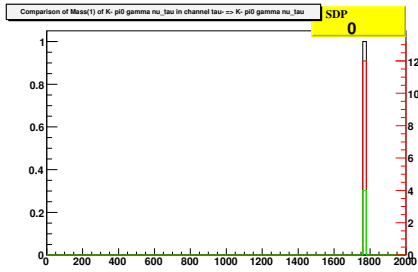


38 Decay Channel: $\tau^- \rightarrow K^- \pi^0 \gamma \nu_\tau$

Number of events from generator 1: 12

Number of events from generator 2: 4

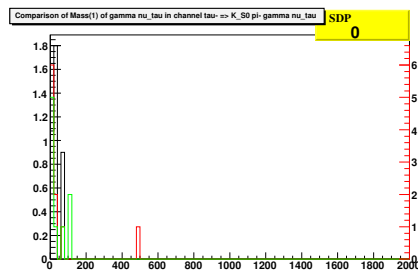
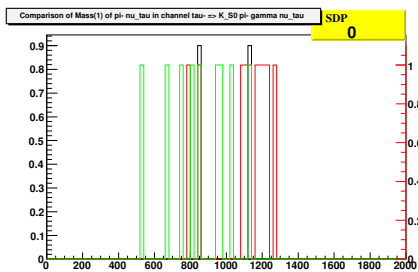
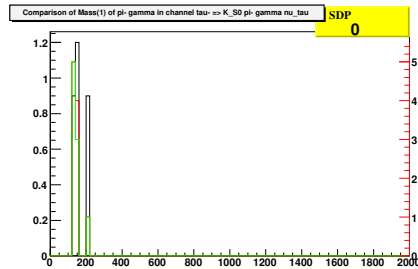
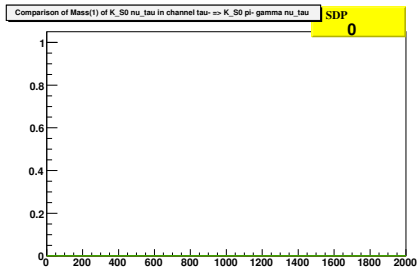
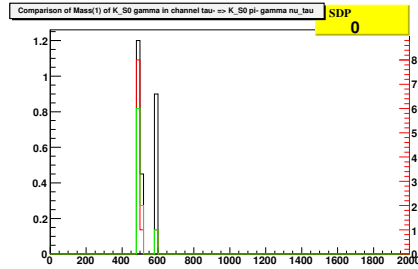
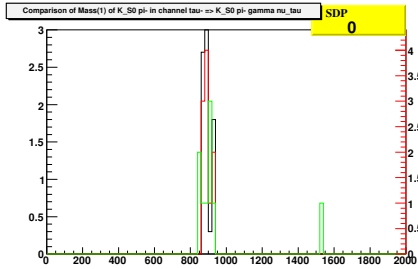


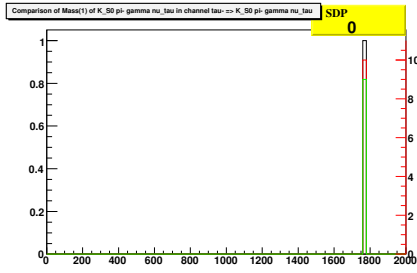
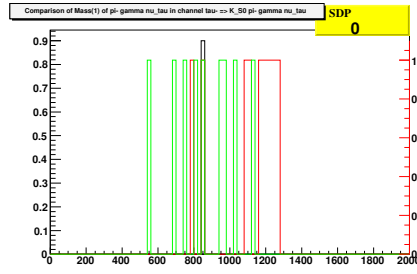
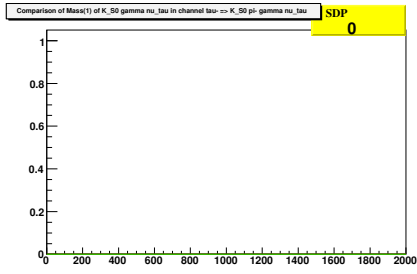
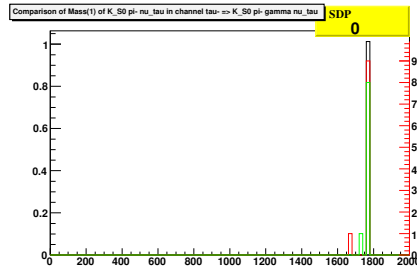
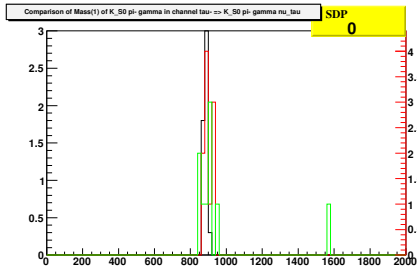


39 Decay Channel: $\tau^- \rightarrow K_S^0 \pi^- \gamma \nu_\tau$

Number of events from generator 1: 10

Number of events from generator 2: 9

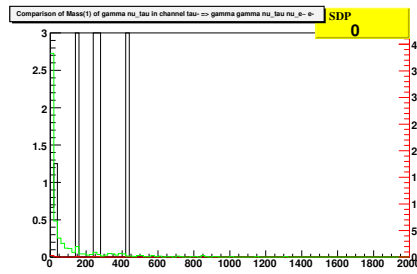
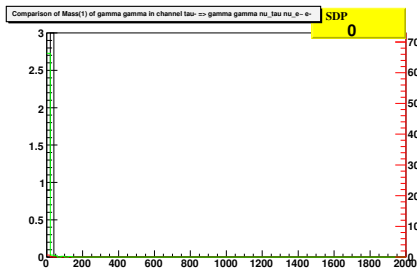


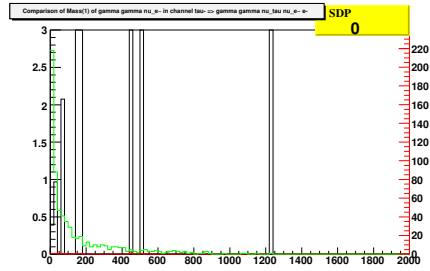
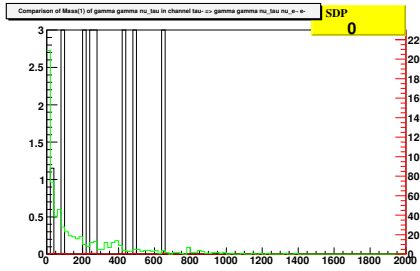
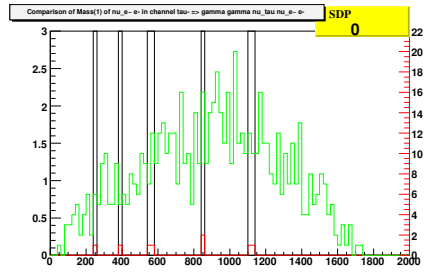
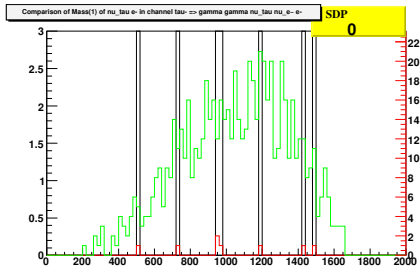
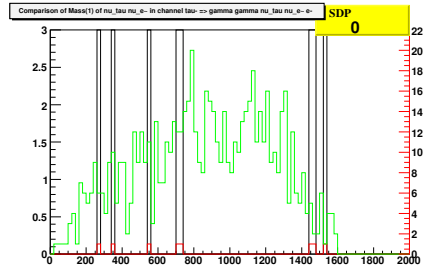
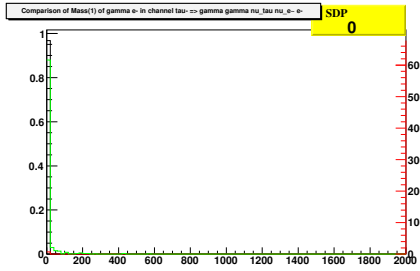
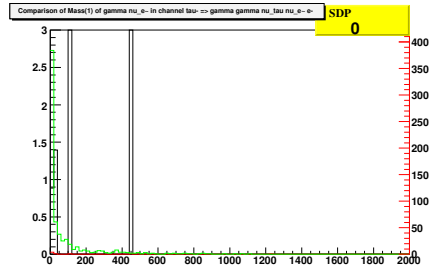
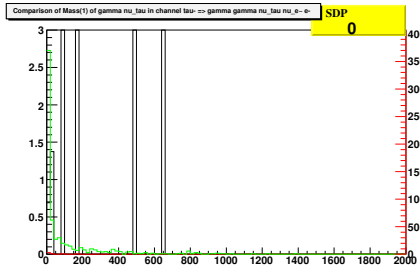
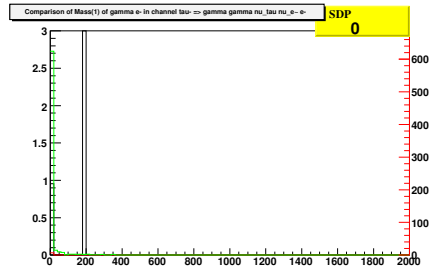
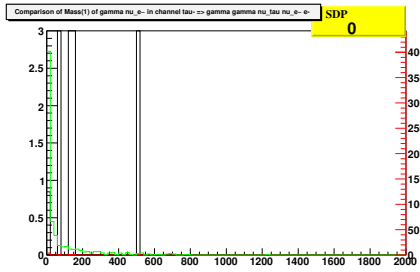


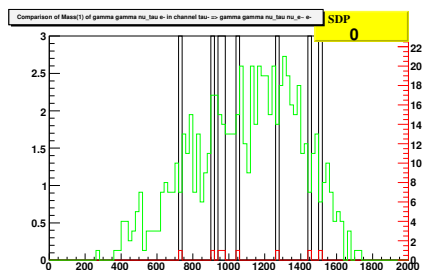
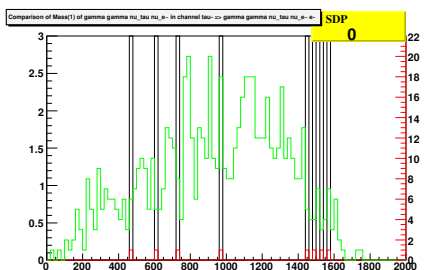
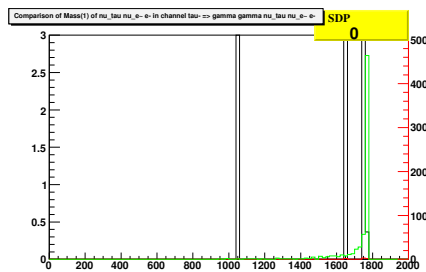
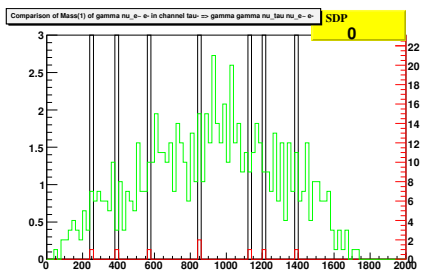
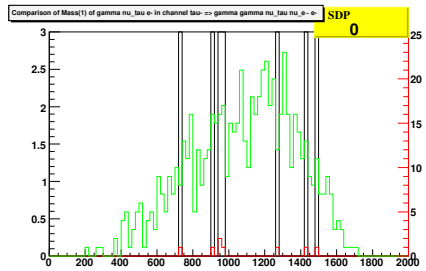
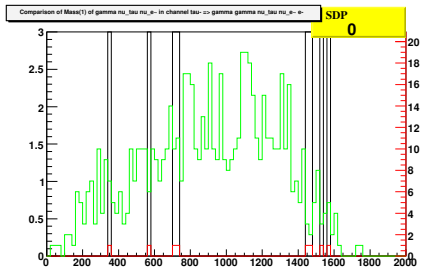
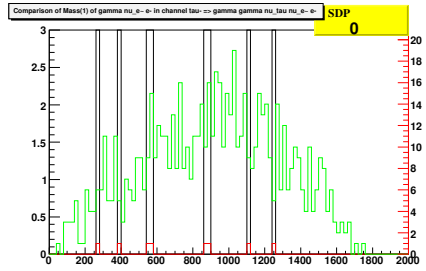
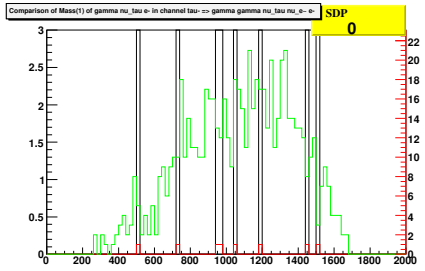
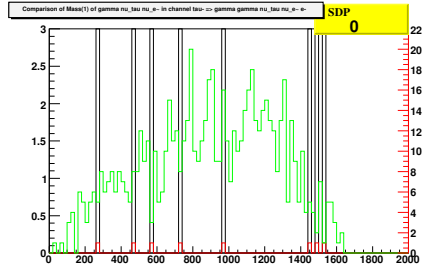
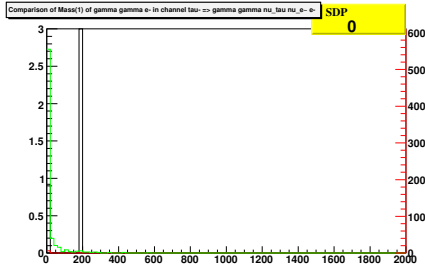
40 Decay Channel: $\tau^- \rightarrow \gamma \gamma \nu_\tau \tilde{\nu}_e e^-$

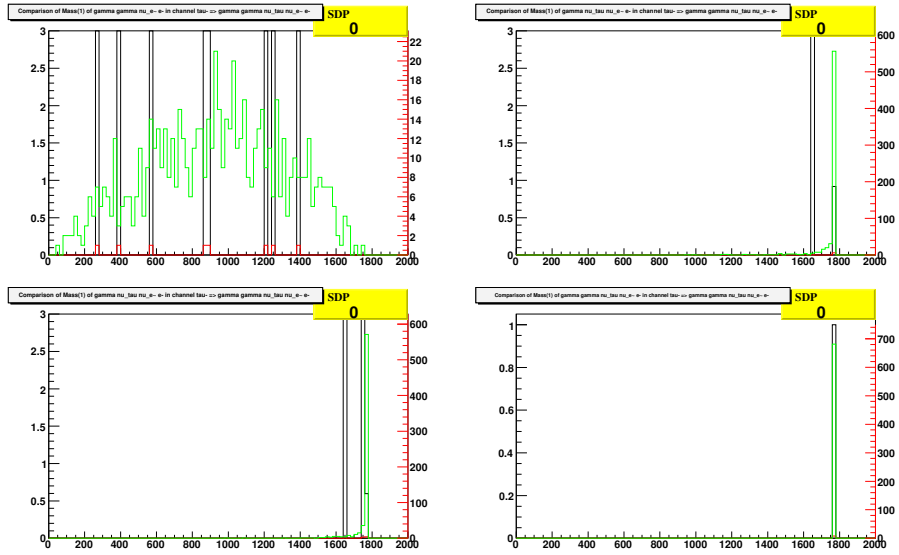
Number of events from generator 1: 8

Number of events from generator 2: 681





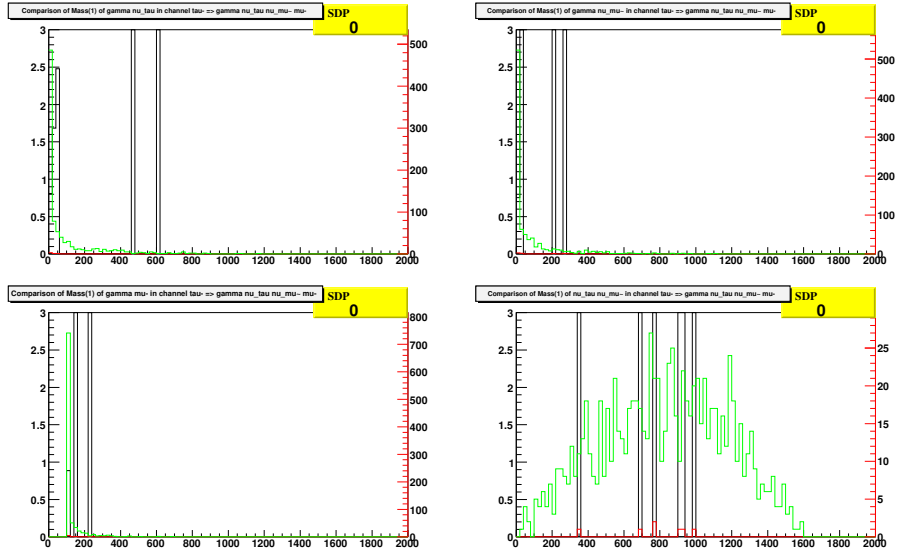


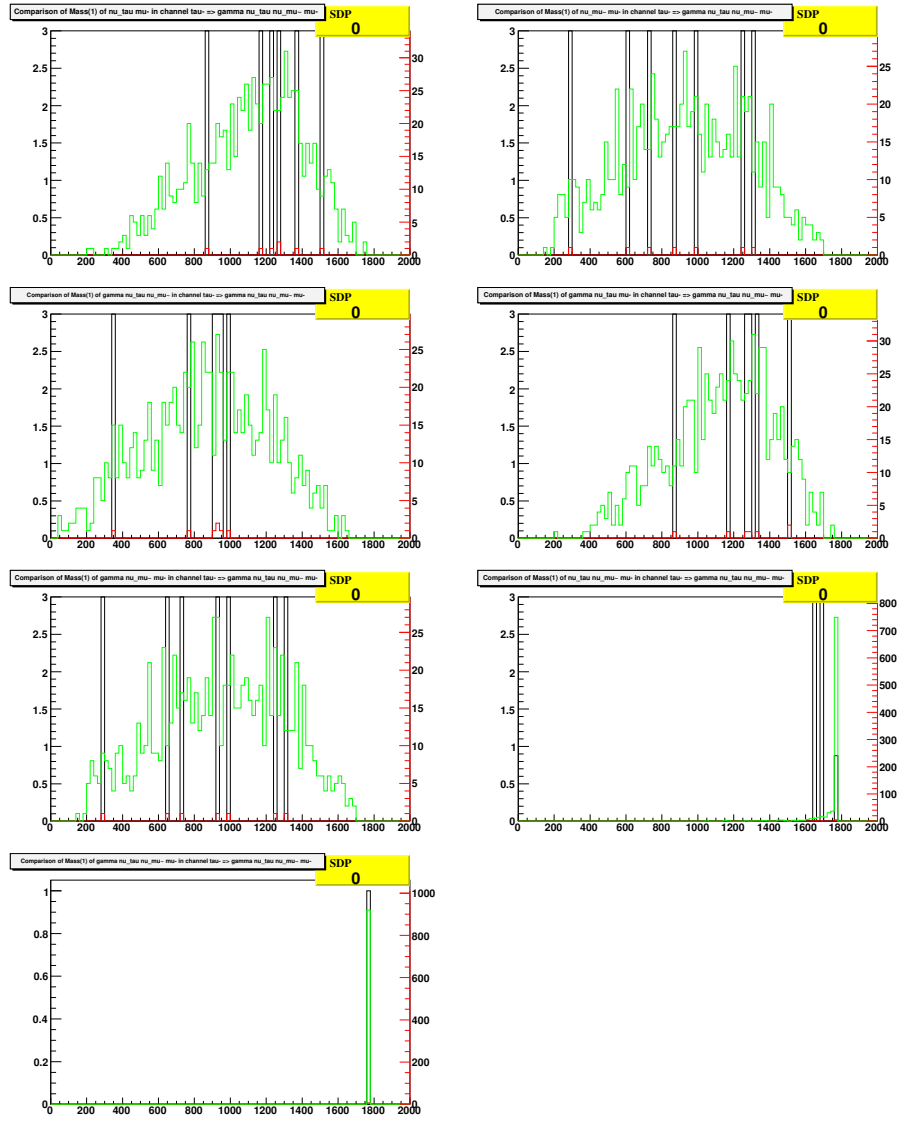


41 Decay Channel: $\tau^- \rightarrow \gamma \nu_\tau \tilde{\nu}_\mu \mu^-$

Number of events from generator 1: 7

Number of events from generator 2: 919

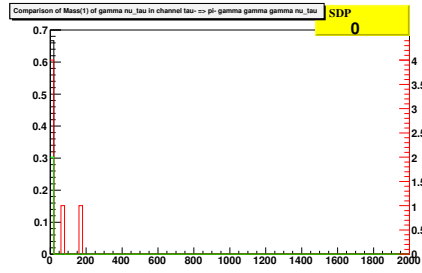
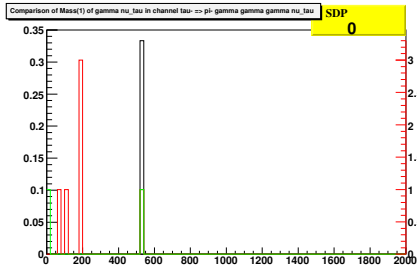
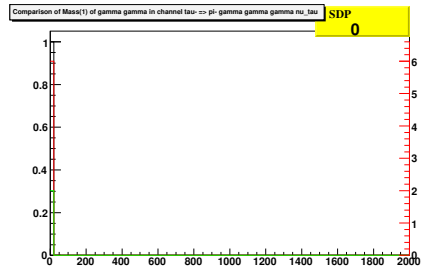
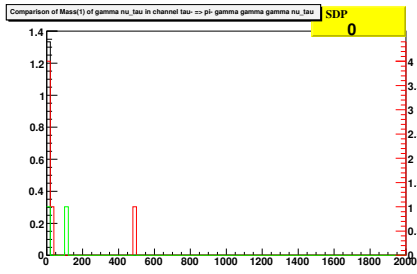
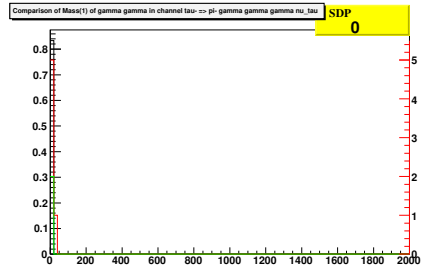
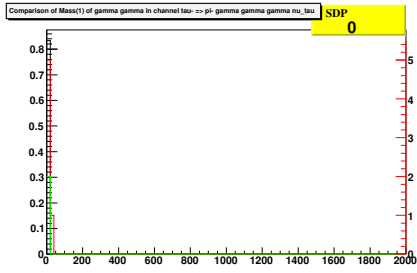
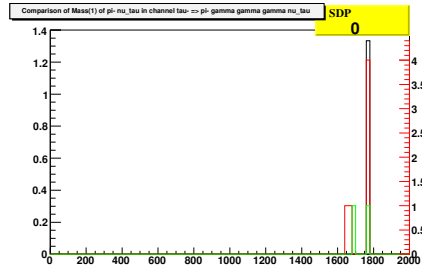
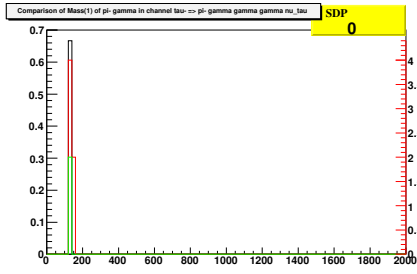
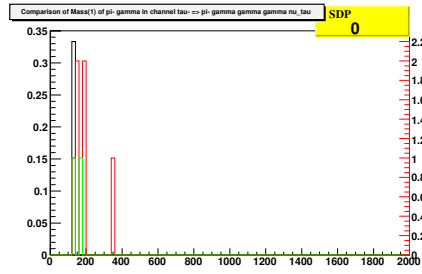
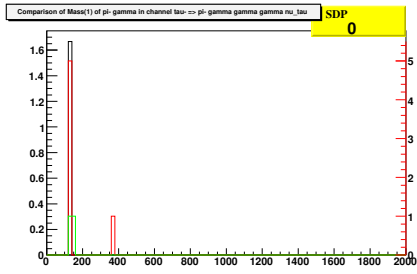


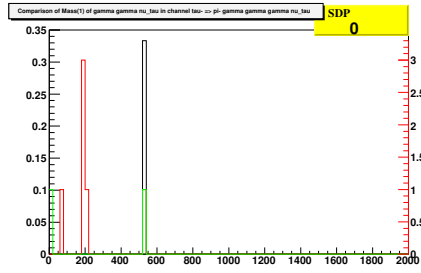
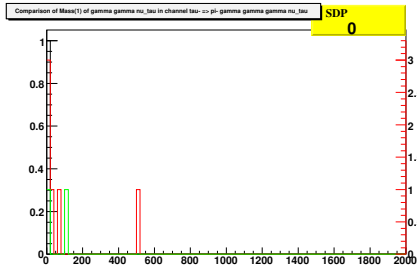
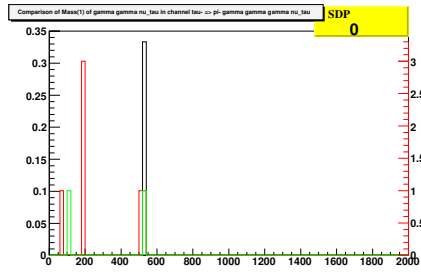
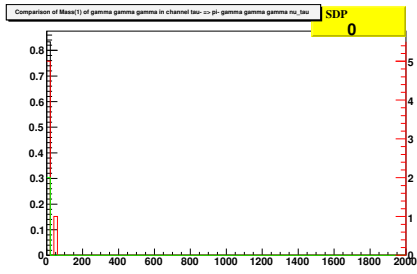
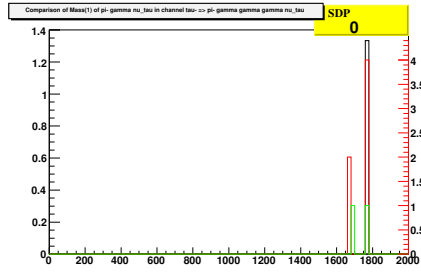
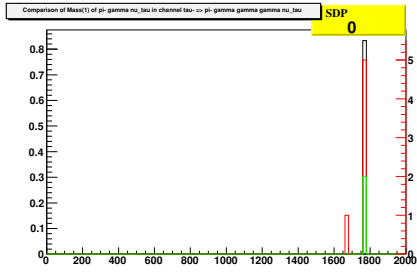
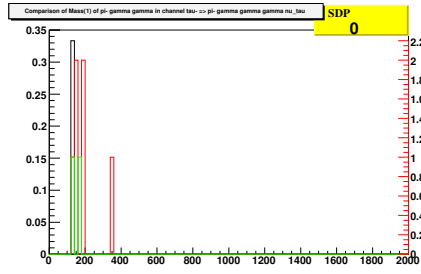
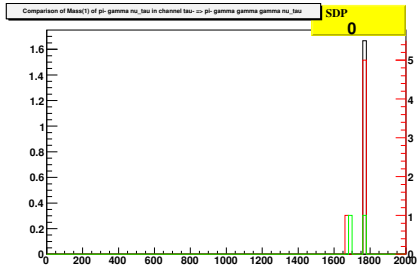
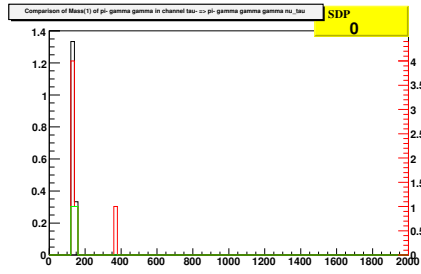
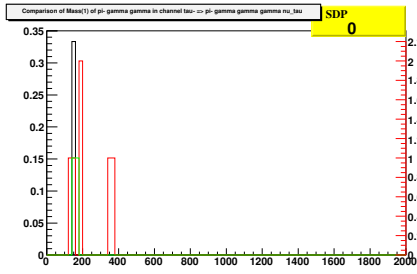


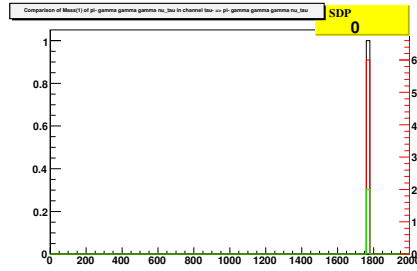
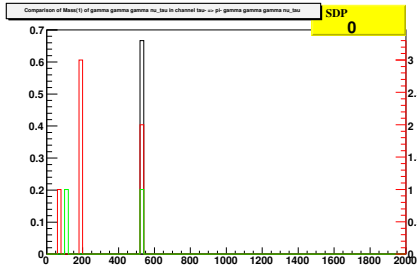
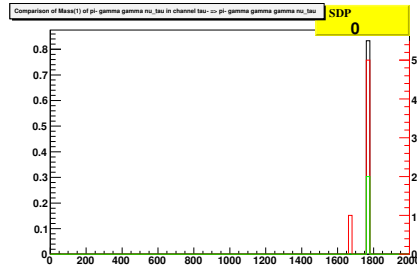
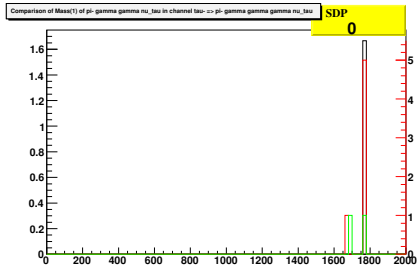
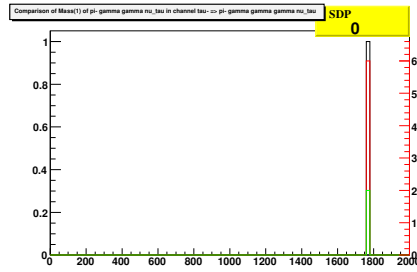
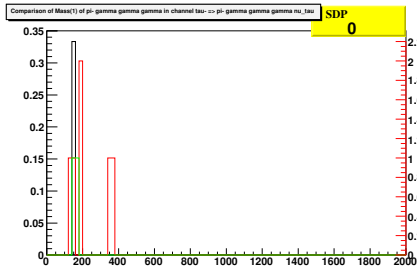
42 Decay Channel: $\tau^- \rightarrow \pi^- \gamma \gamma \nu_\tau$

Number of events from generator 1: 6

Number of events from generator 2: 2



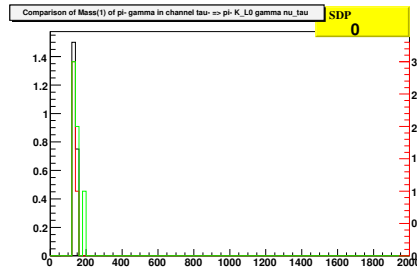
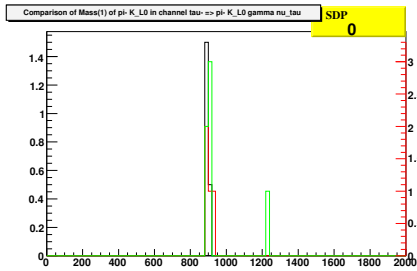


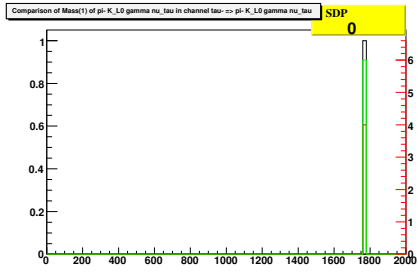
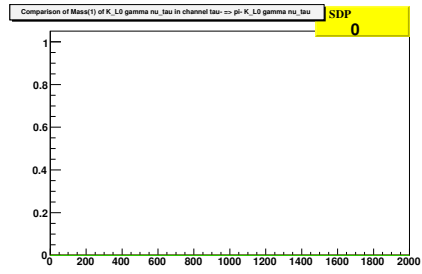
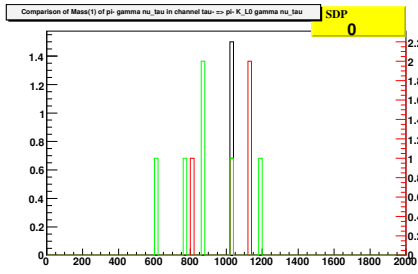
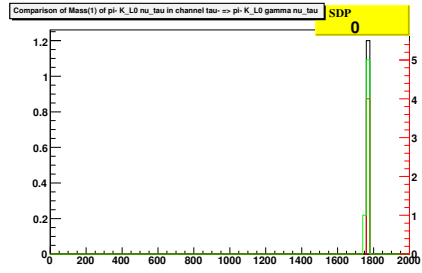
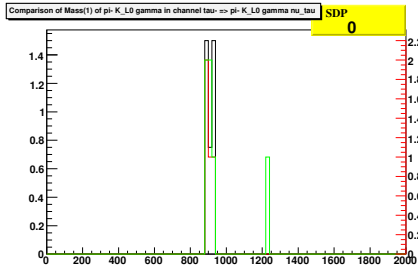
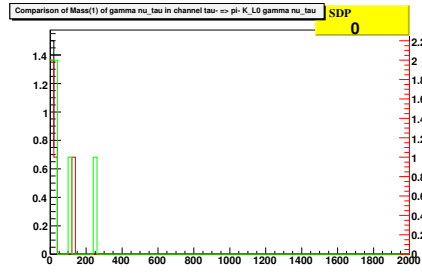
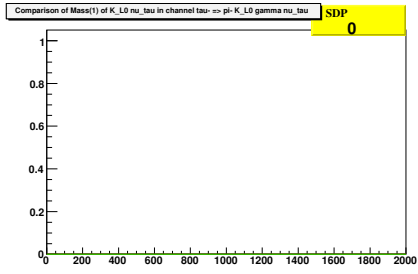
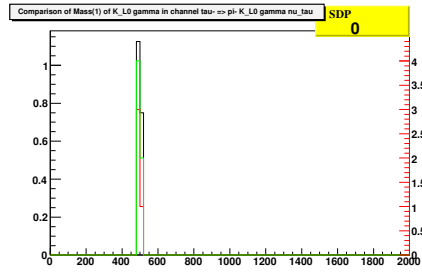
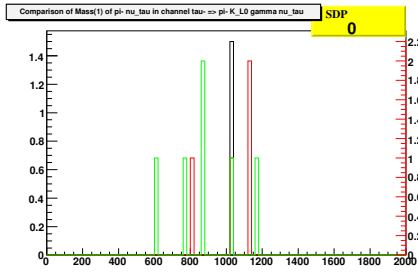


43 Decay Channel: $\tau^- \rightarrow \pi^- K_L^0 \gamma \nu_\tau$

Number of events from generator 1: 4

Number of events from generator 2: 6

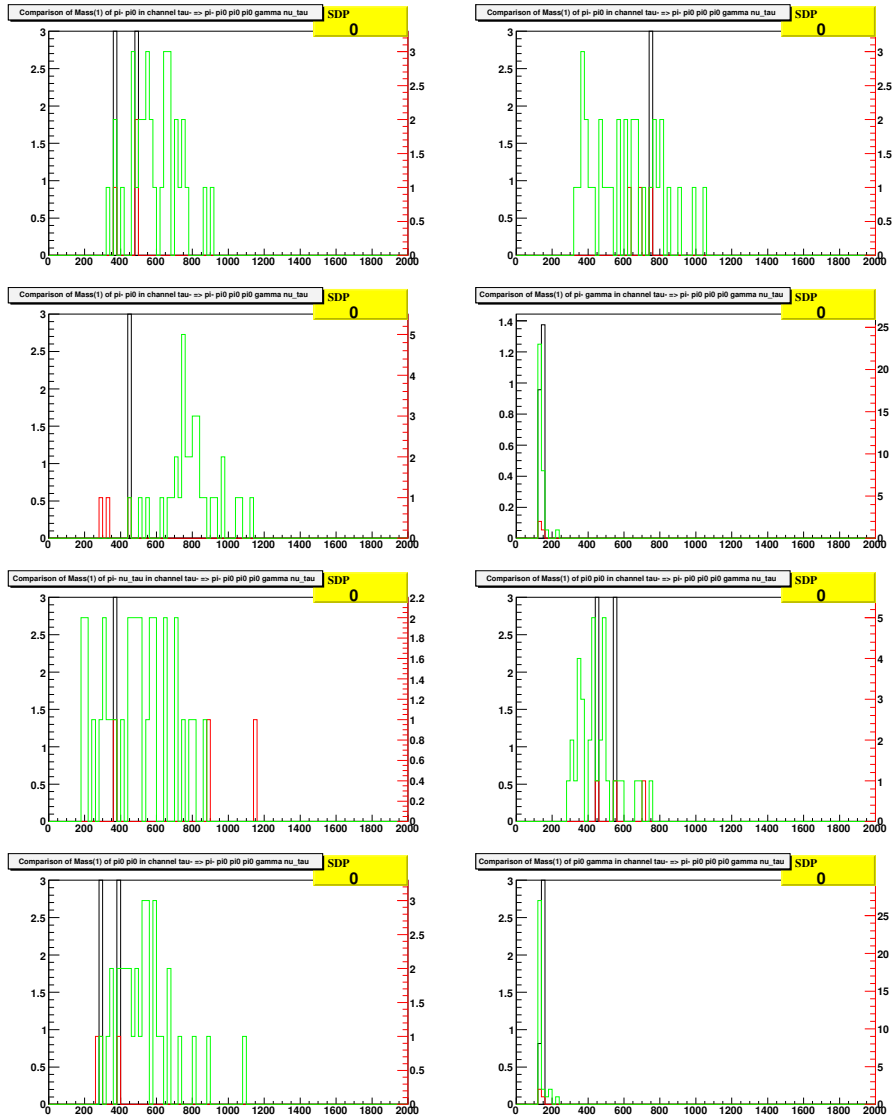


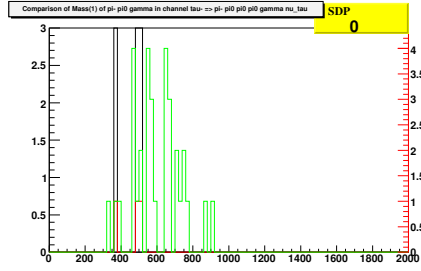
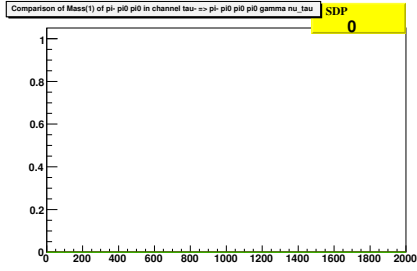
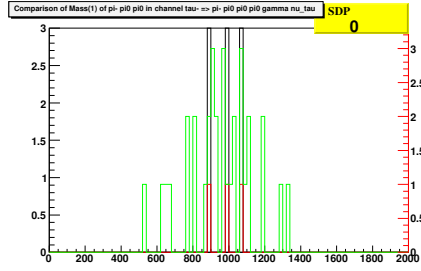
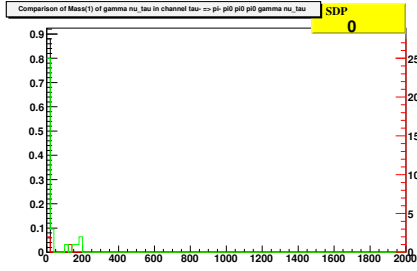
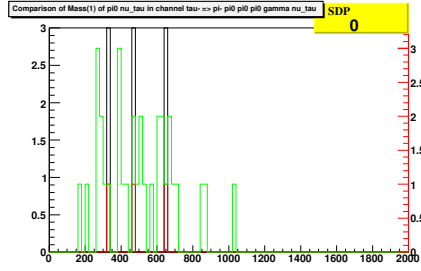
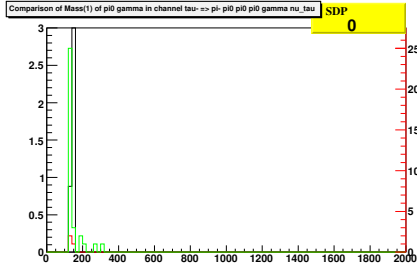
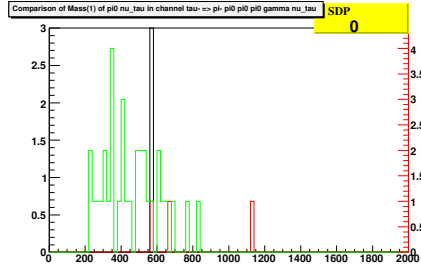
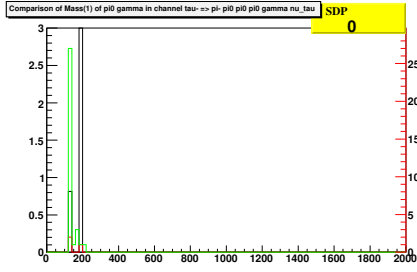
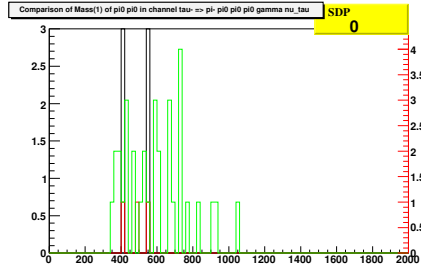
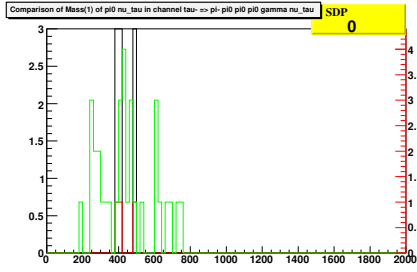


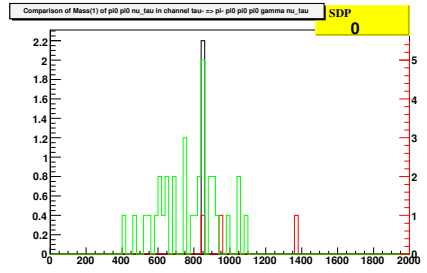
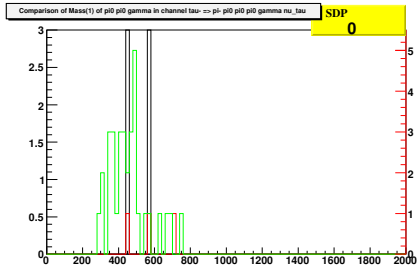
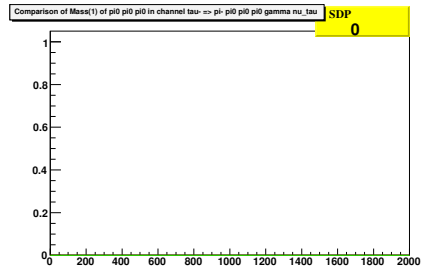
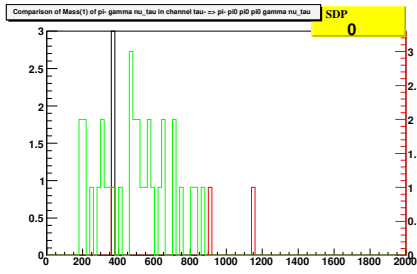
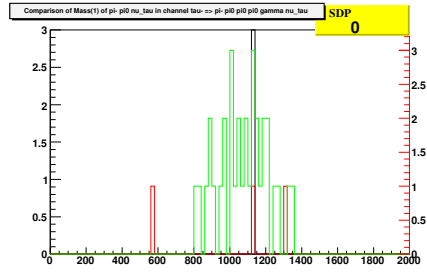
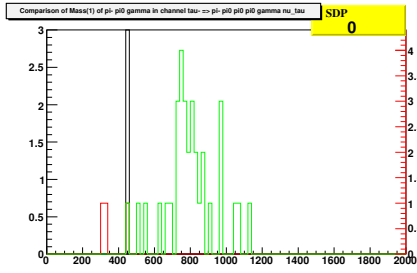
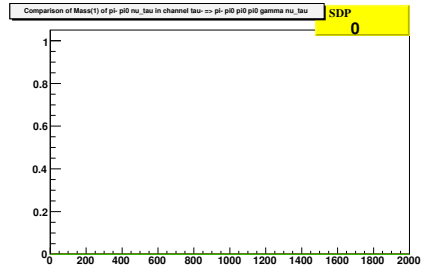
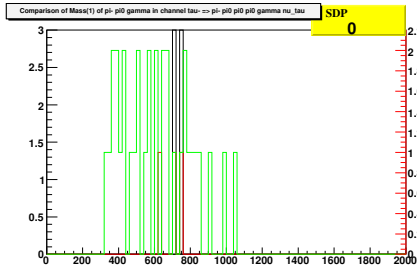
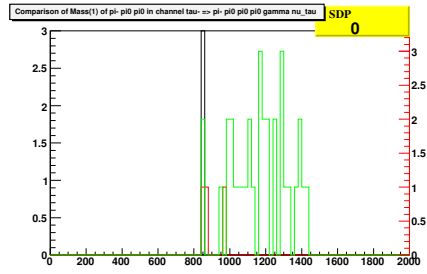
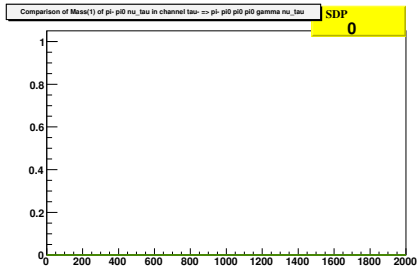
44 Decay Channel: $\tau^- \rightarrow \pi^- \pi^0 \pi^0 \pi^0 \gamma \nu_\tau$

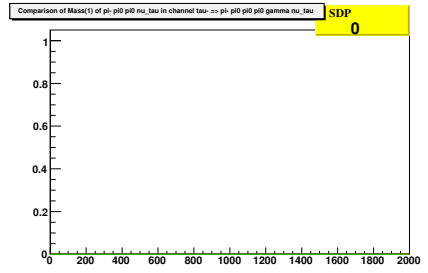
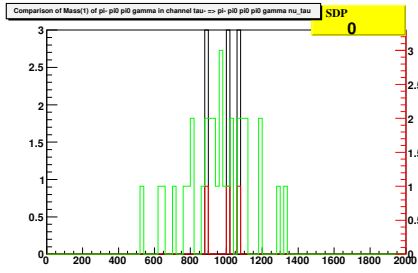
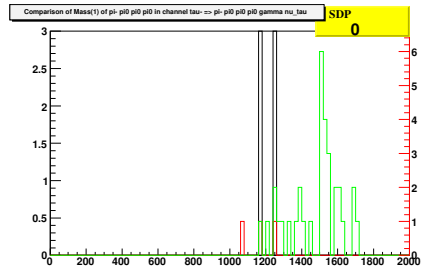
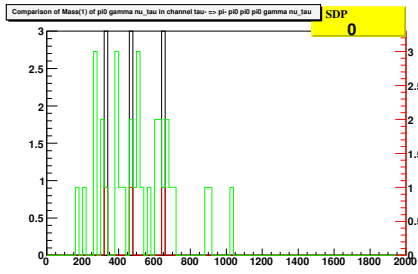
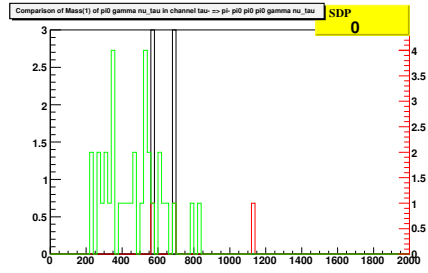
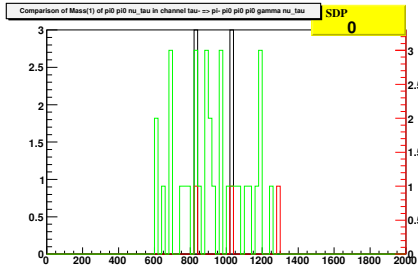
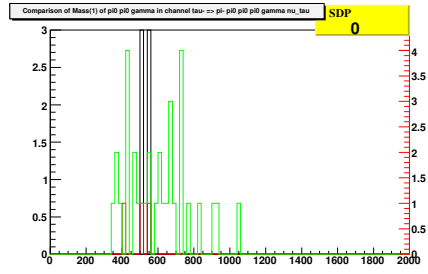
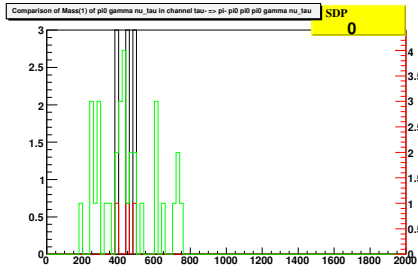
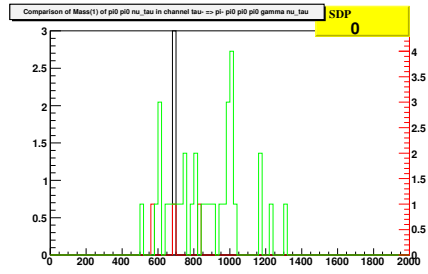
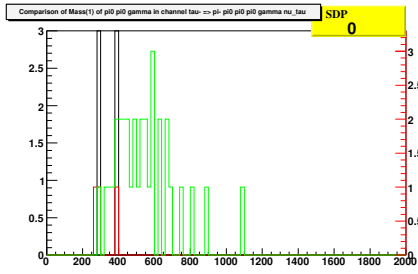
Number of events from generator 1: 3

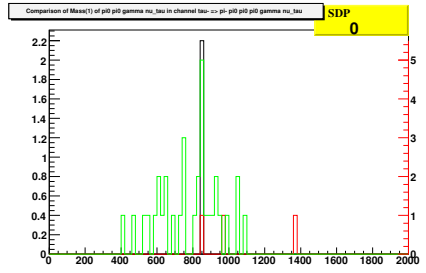
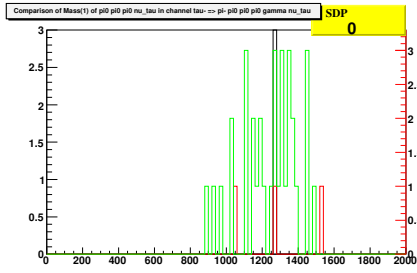
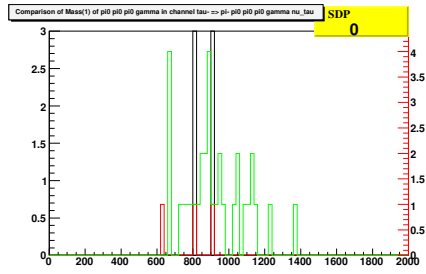
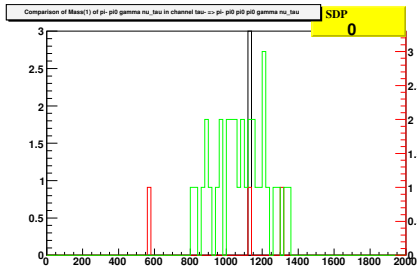
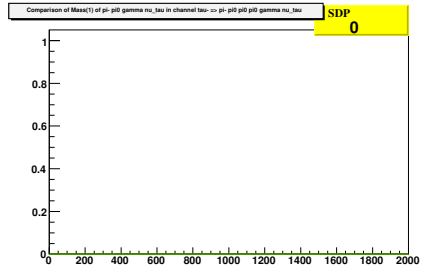
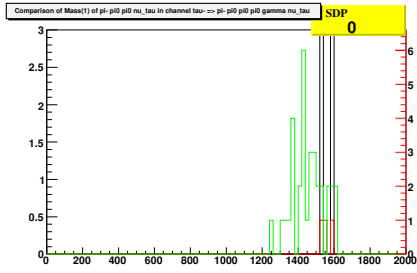
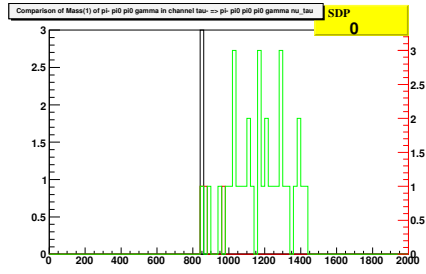
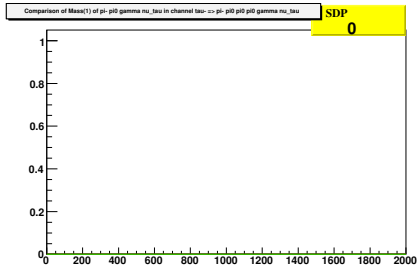
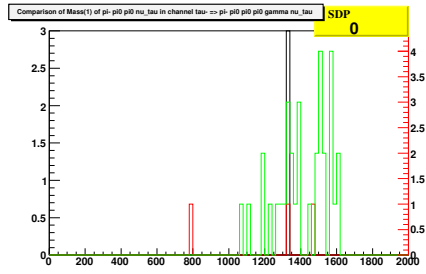
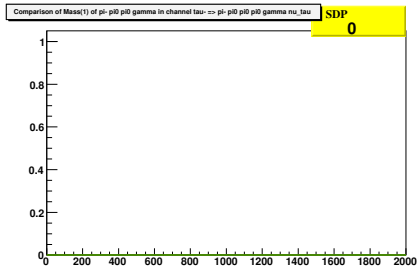
Number of events from generator 2: 33

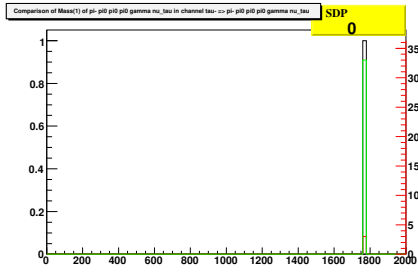
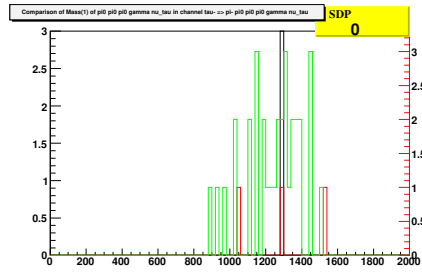
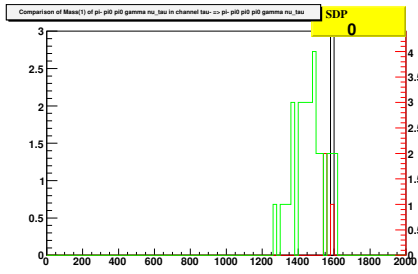
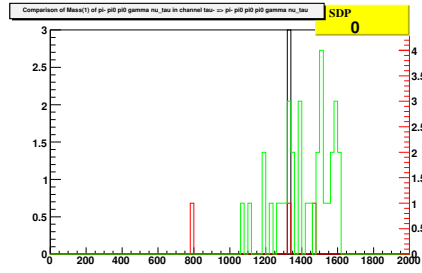
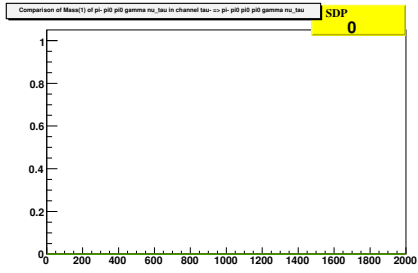
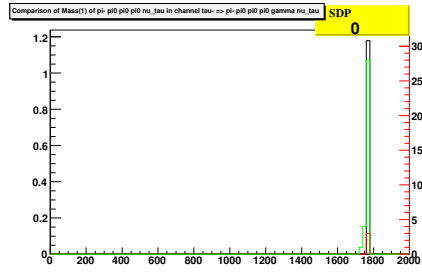
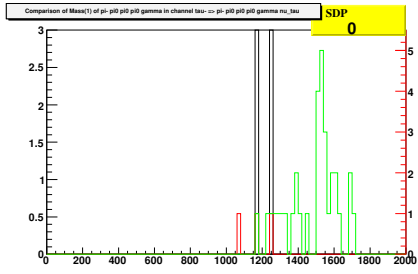
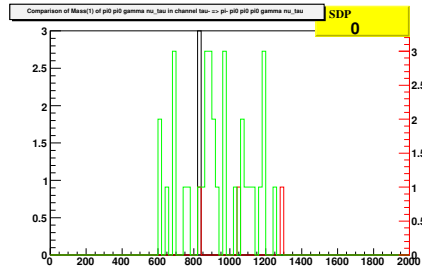
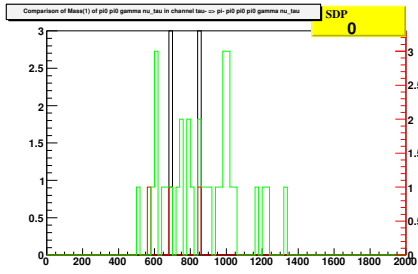








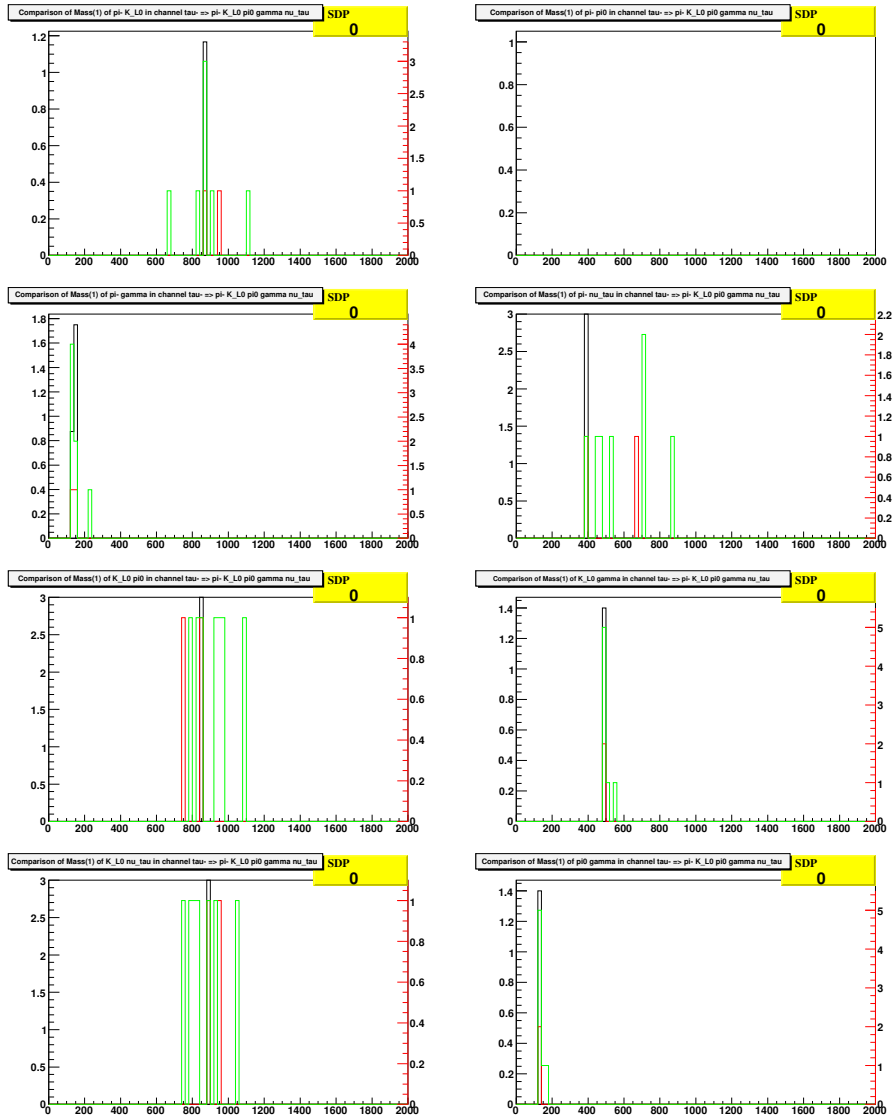


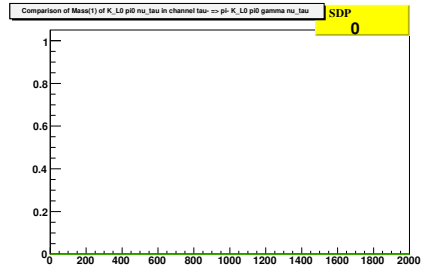
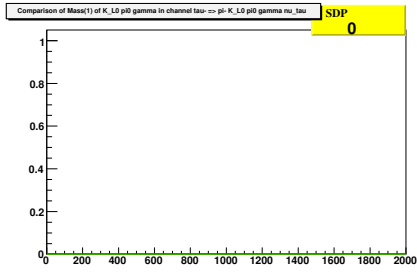
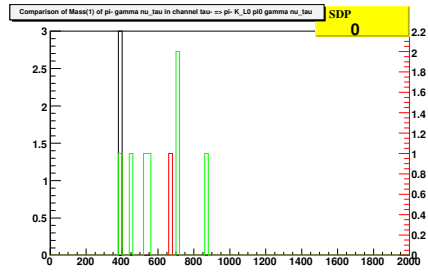
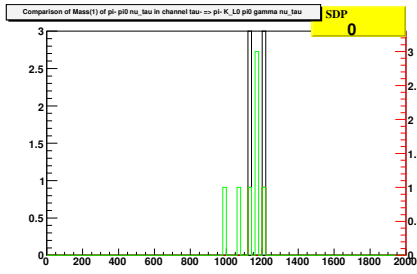
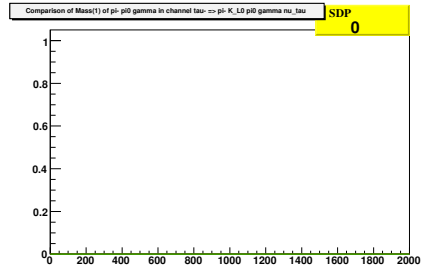
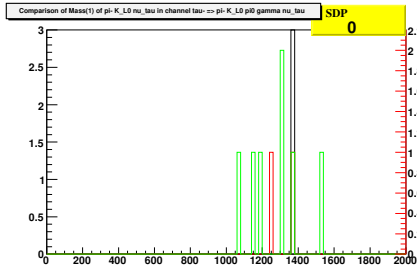
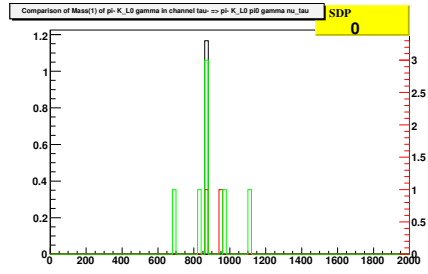
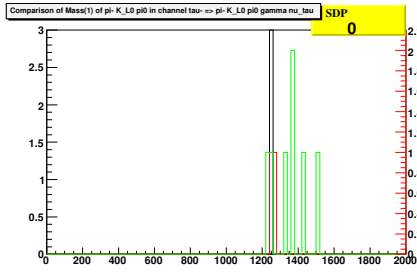
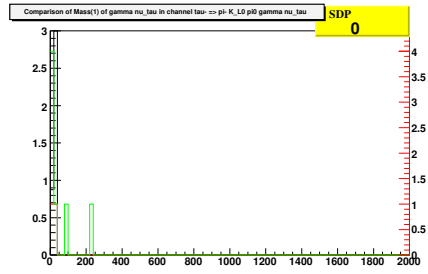
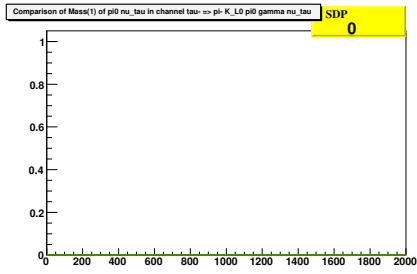


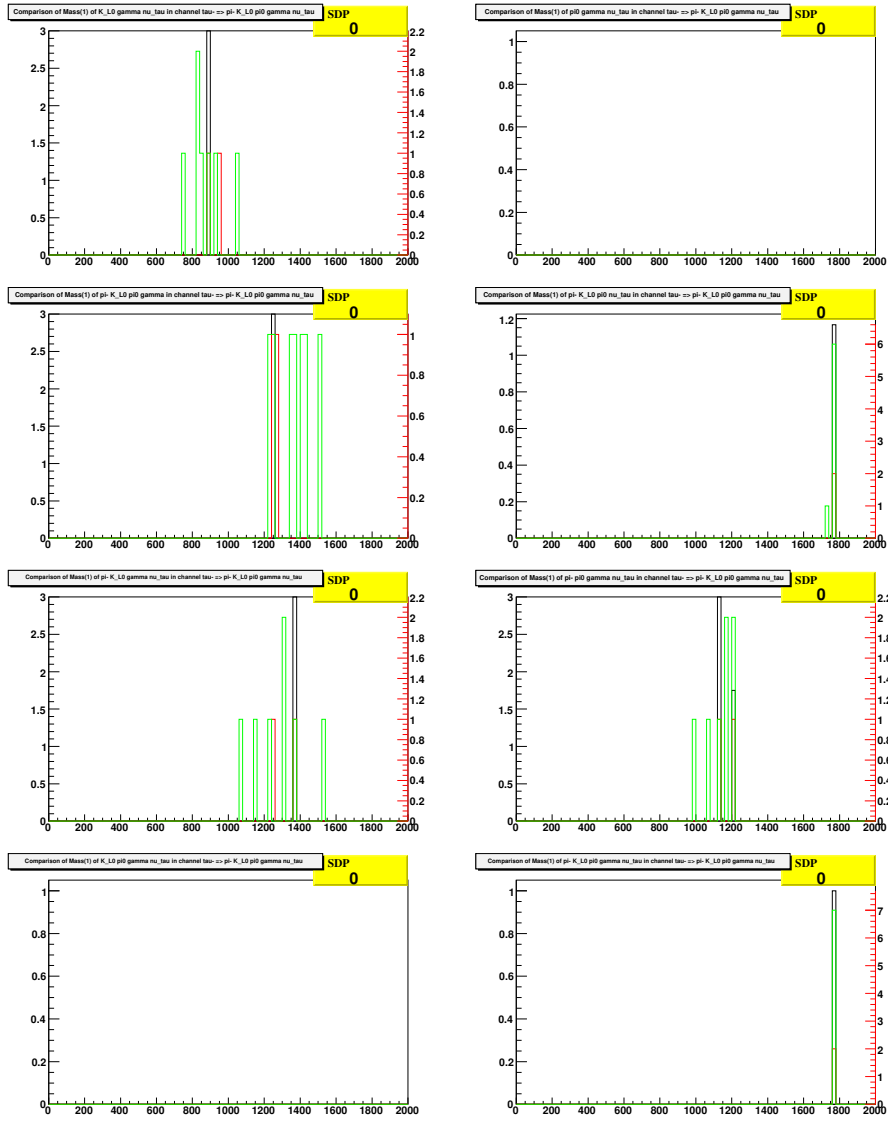
45 Decay Channel: $\tau^- \rightarrow \pi^- K_L^0 \pi^0 \gamma \nu_\tau$

Number of events from generator 1: 2

Number of events from generator 2: 7



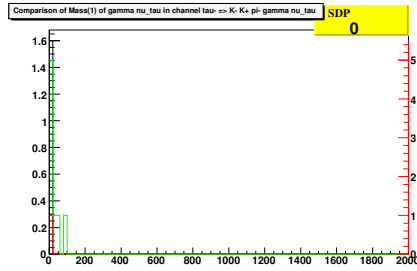
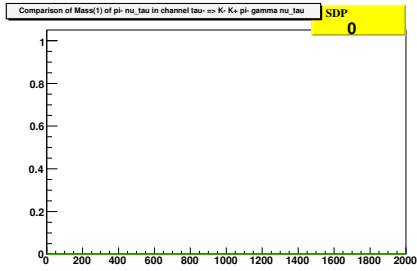
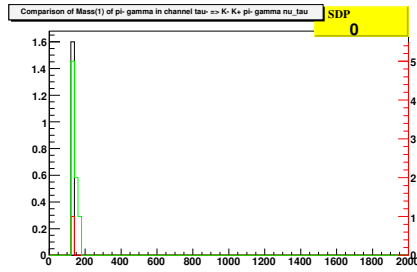
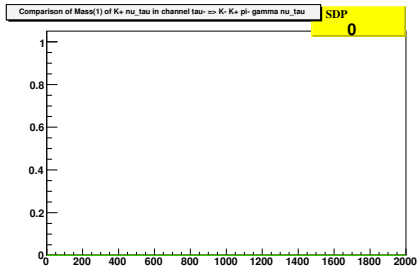
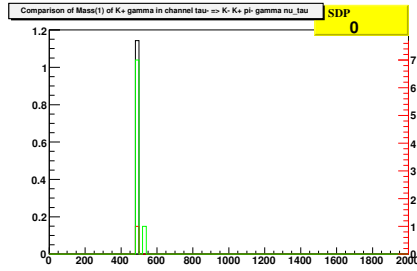
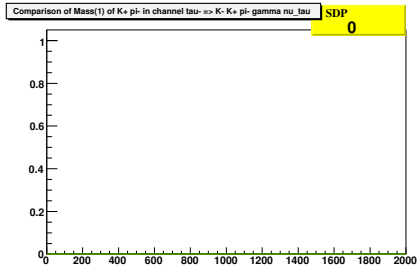
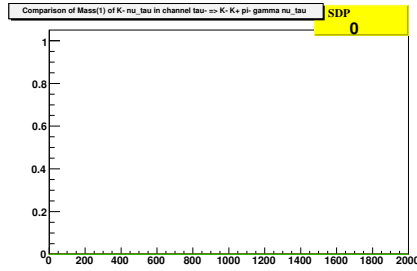
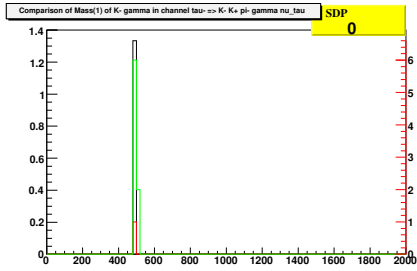
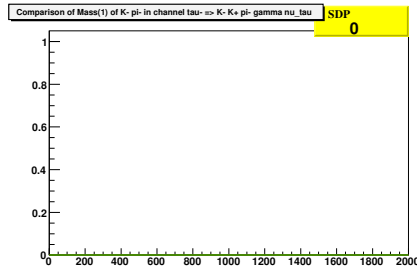
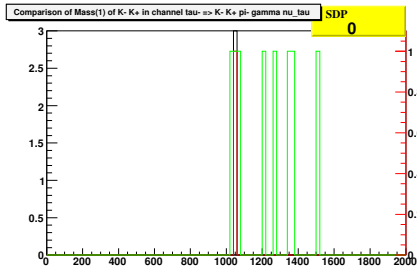


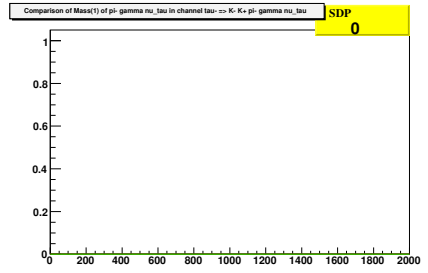
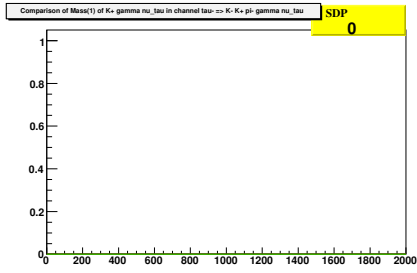
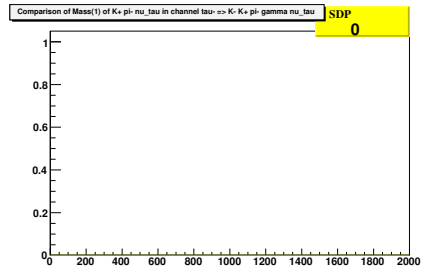
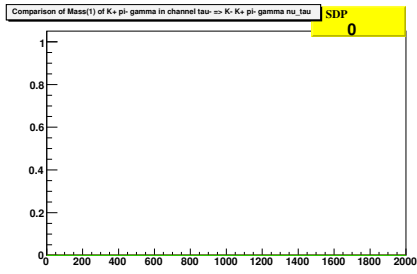
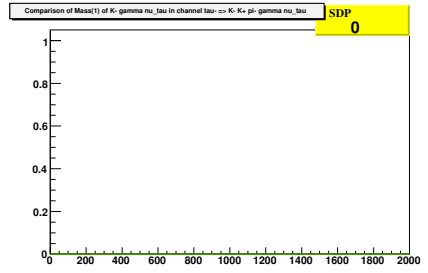
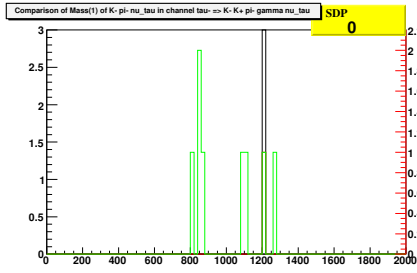
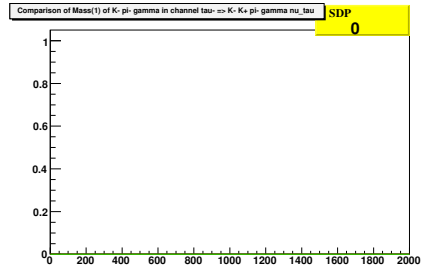
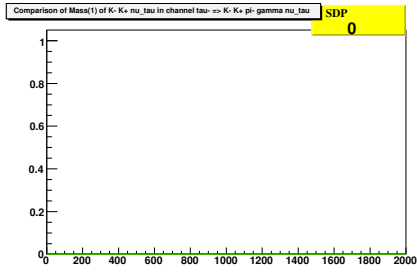
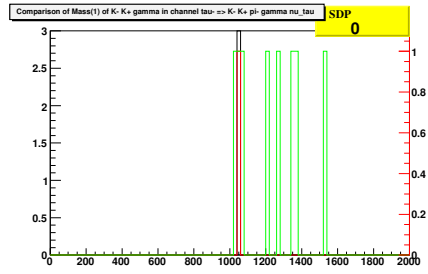
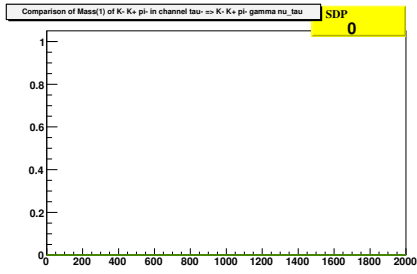


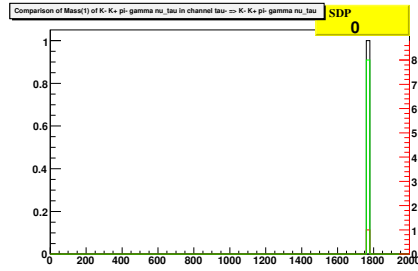
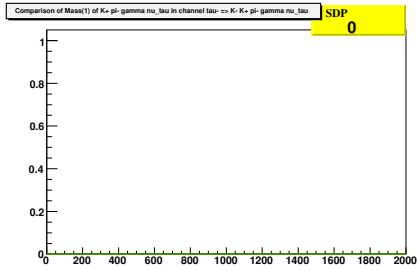
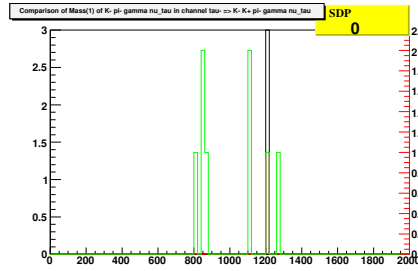
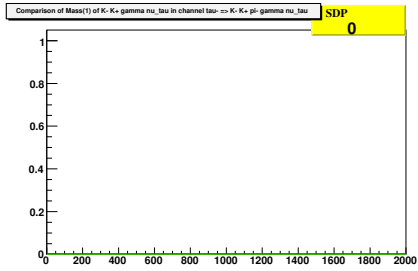
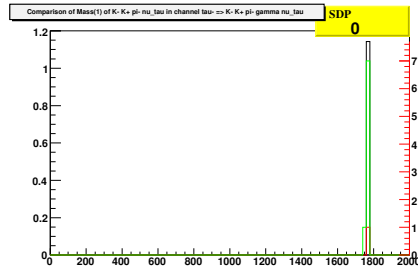
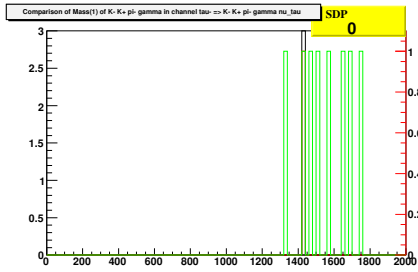
46 Decay Channel: $\tau^- \rightarrow K^- K^+ \pi^- \gamma \nu_\tau$

Number of events from generator 1: 1

Number of events from generator 2: 8

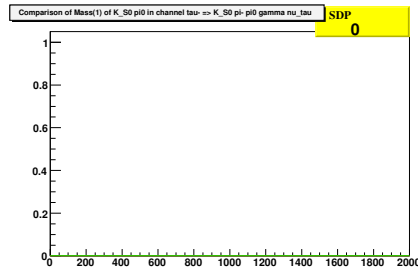
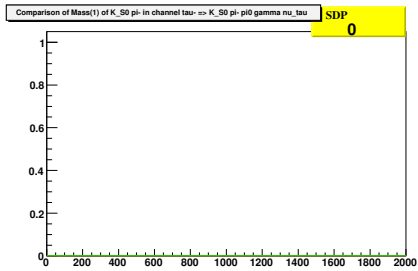


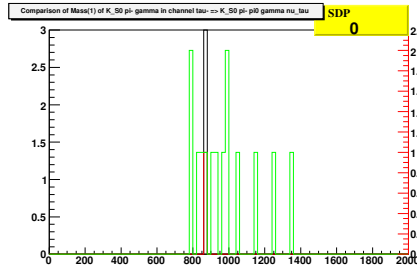
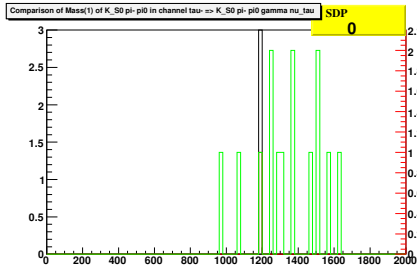
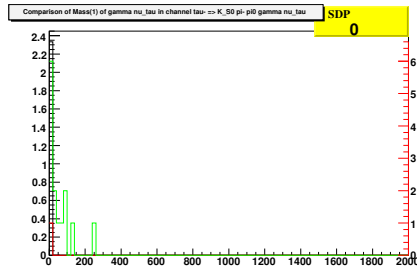
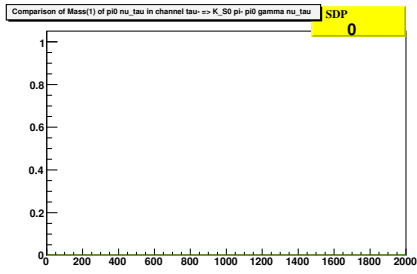
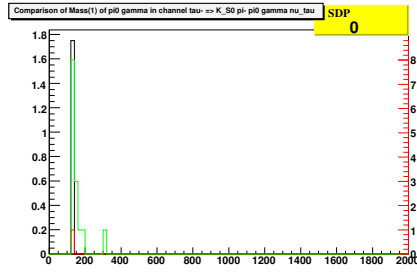
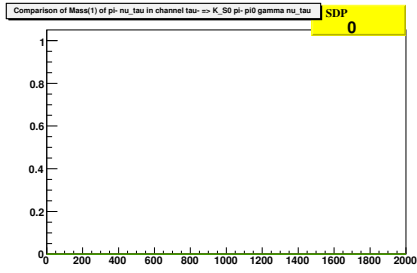
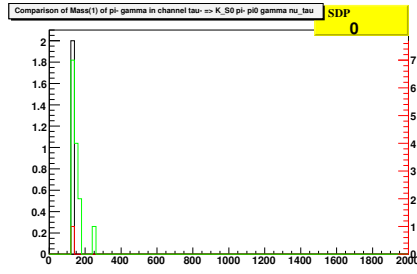
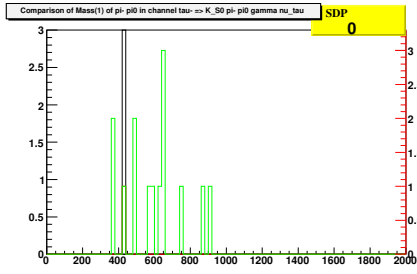
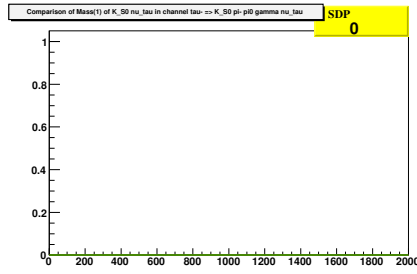
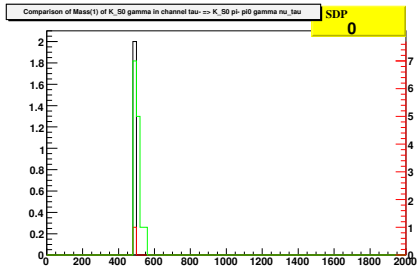


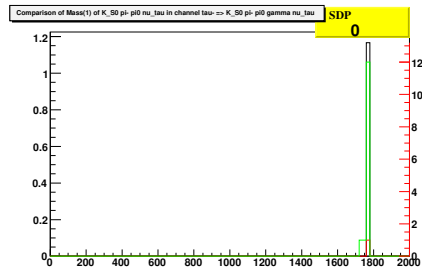
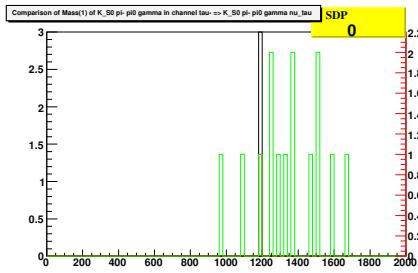
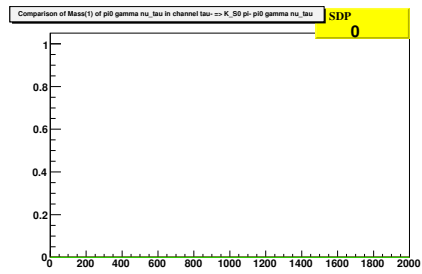
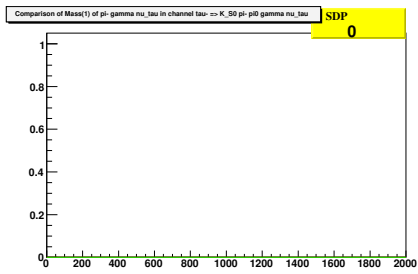
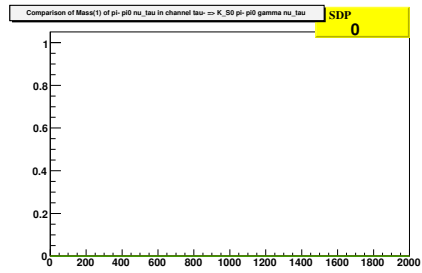
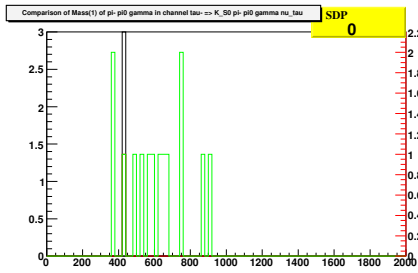
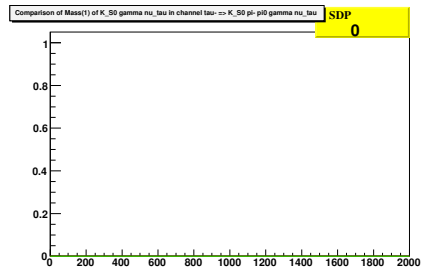
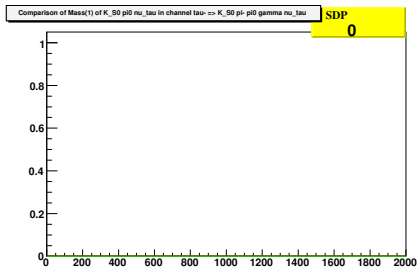
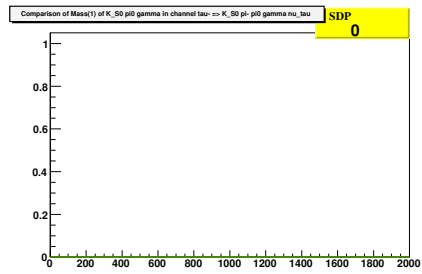
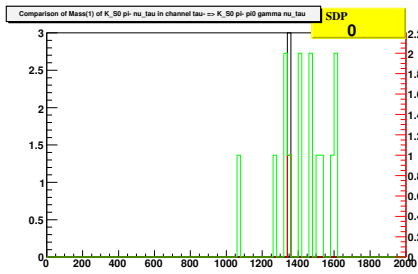


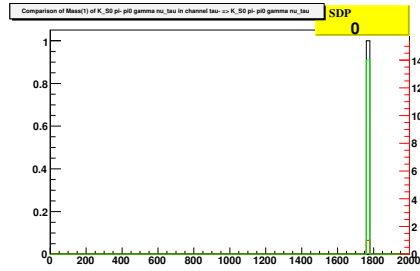
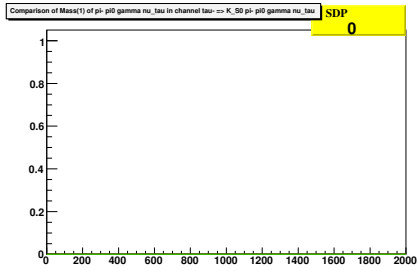
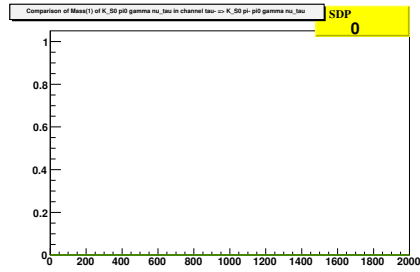
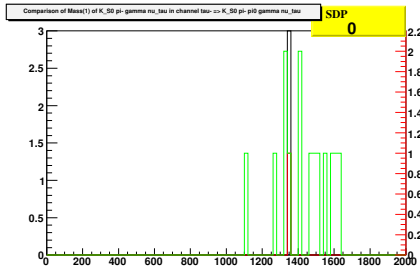
47 Decay Channel: $\tau^- \rightarrow K_S^0 \pi^- \pi^0 \gamma \nu_\tau$

Number of events from generator 1: 1
 Number of events from generator 2: 14





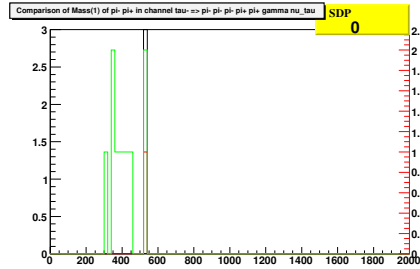
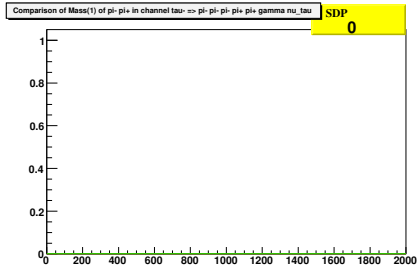
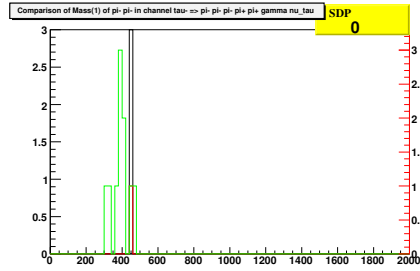
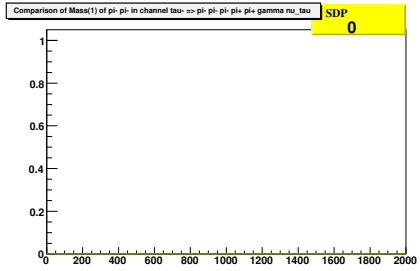


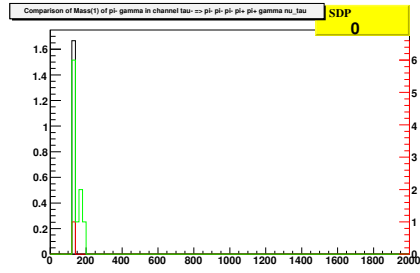
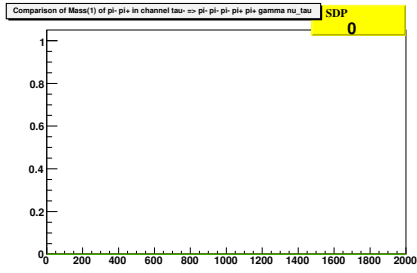
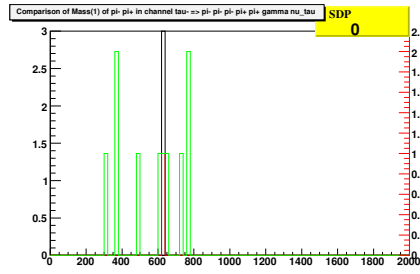
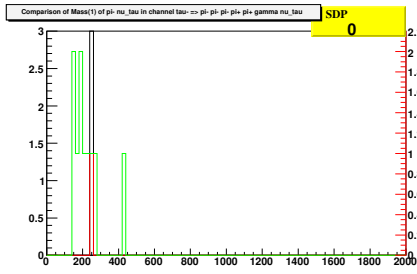
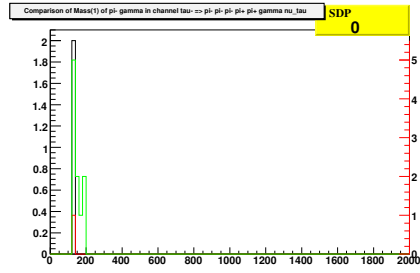
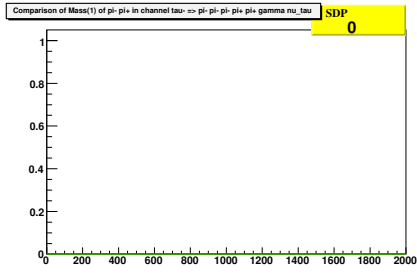
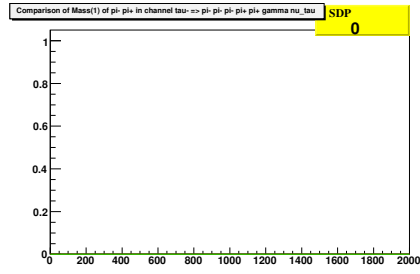
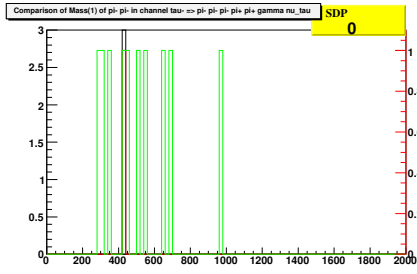
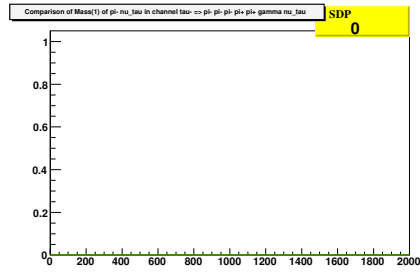
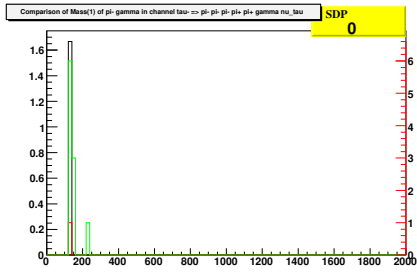


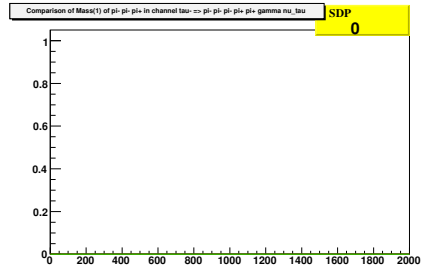
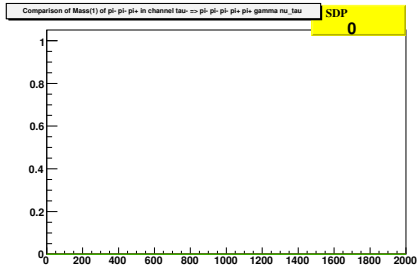
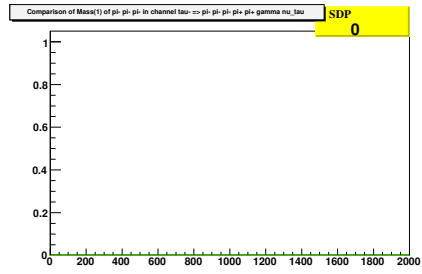
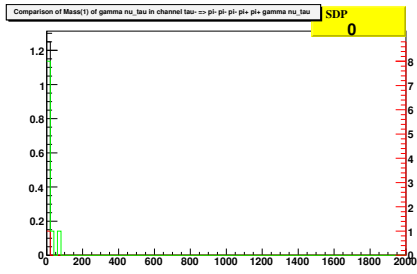
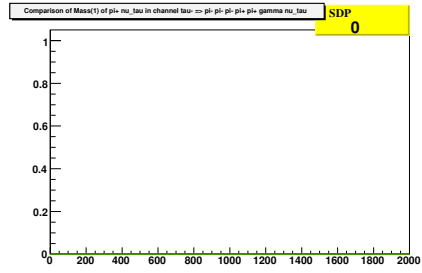
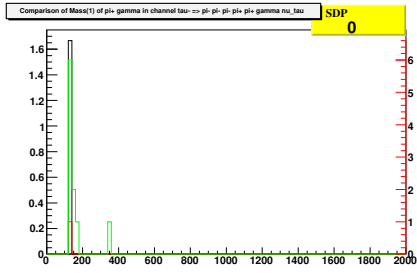
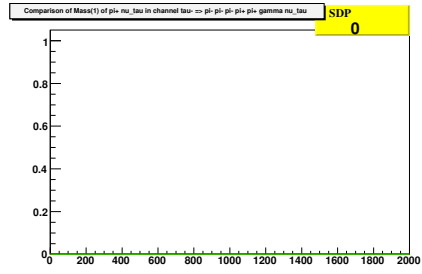
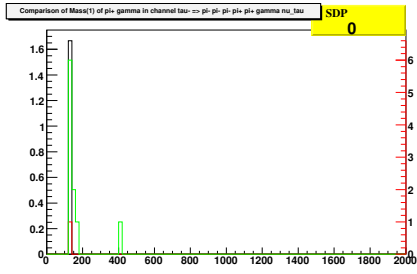
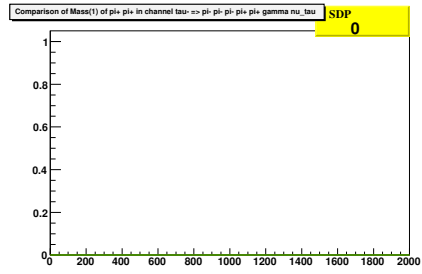
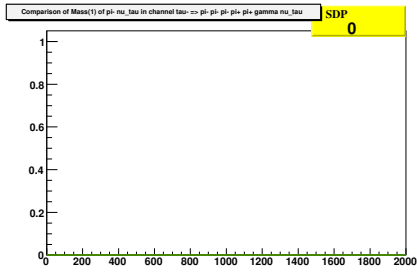
48 Decay Channel: $\tau^- \rightarrow \pi^- \pi^- \pi^- \pi^+ \pi^+ \gamma \nu_\tau$

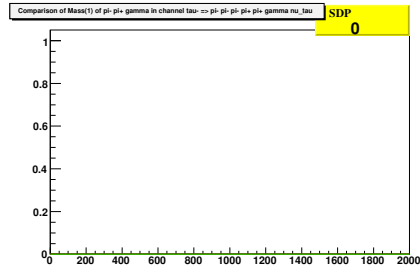
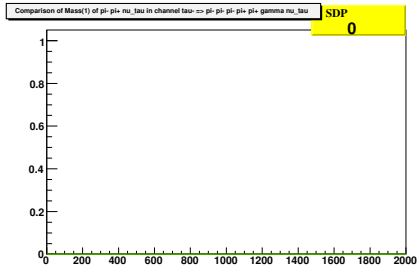
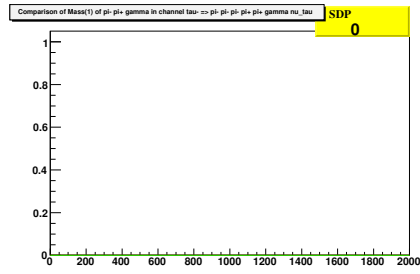
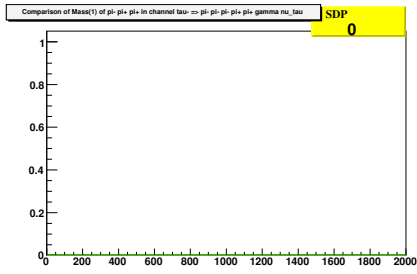
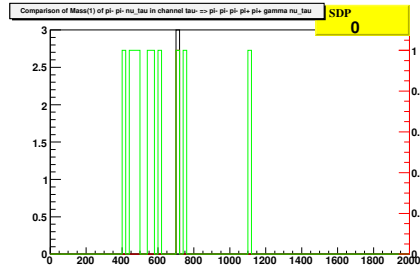
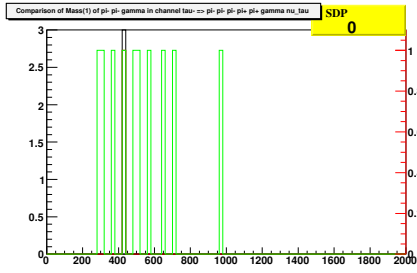
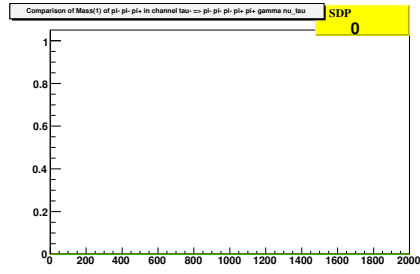
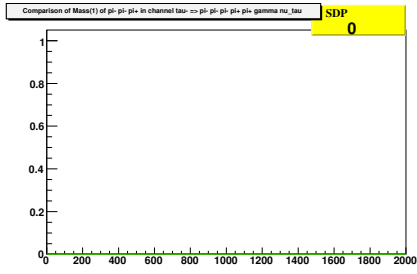
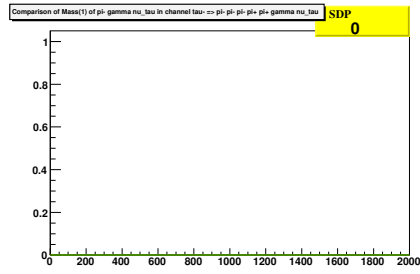
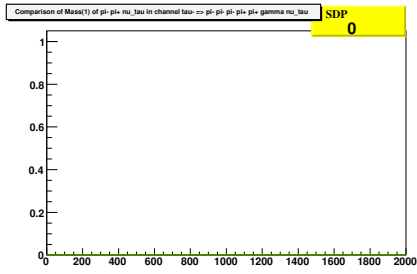
Number of events from generator 1: 1

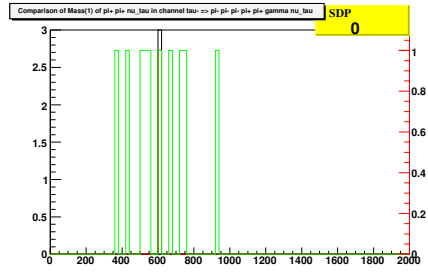
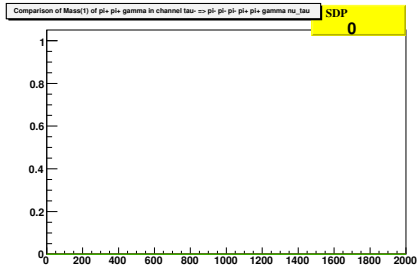
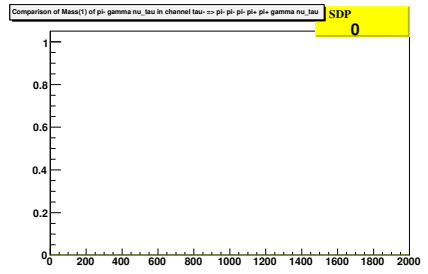
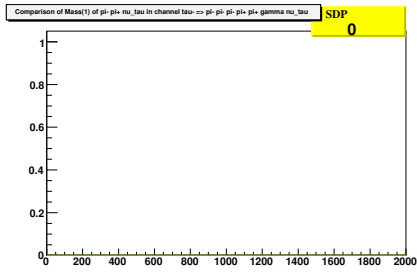
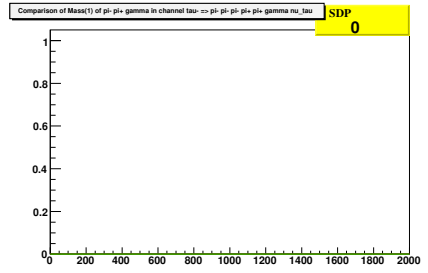
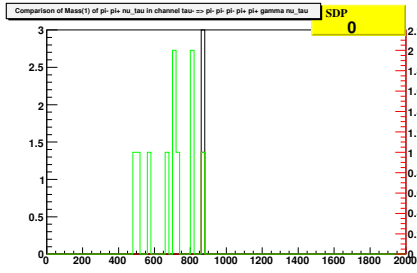
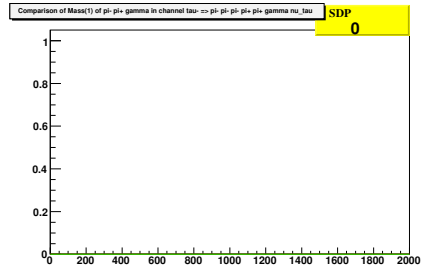
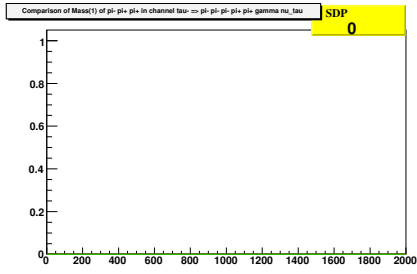
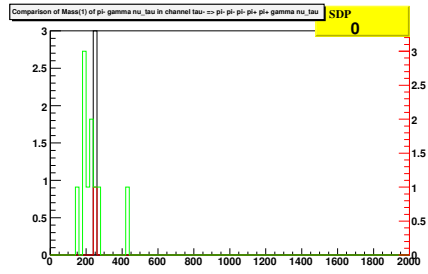
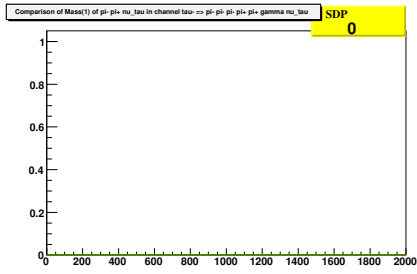
Number of events from generator 2: 10

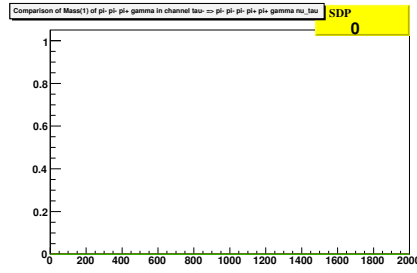
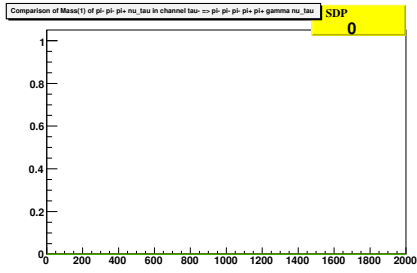
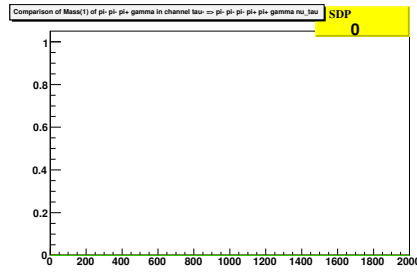
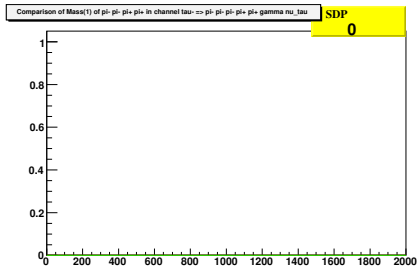
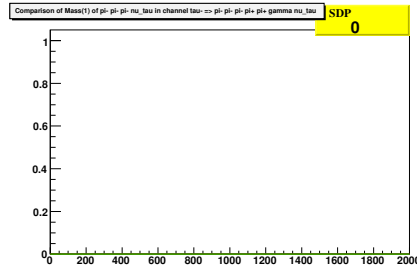
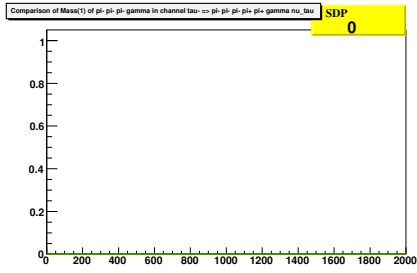
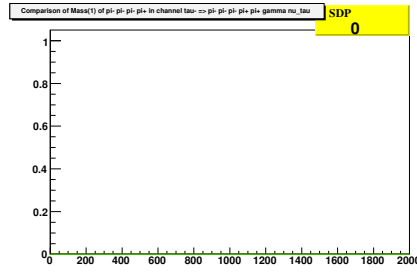
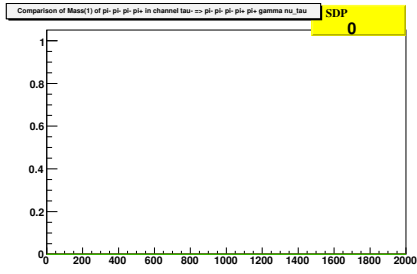
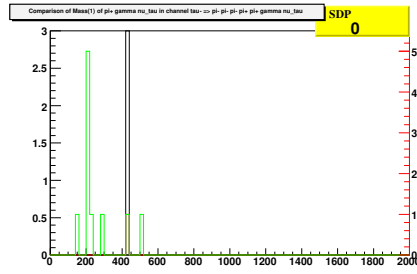
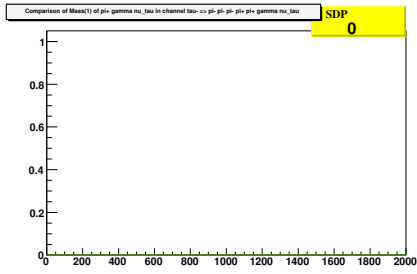


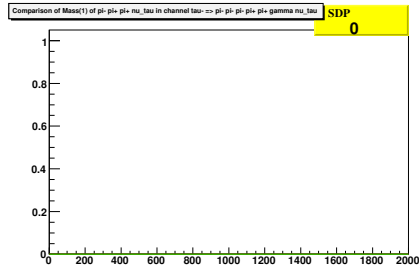
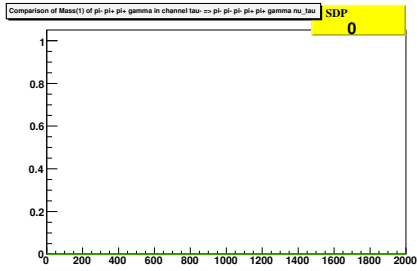
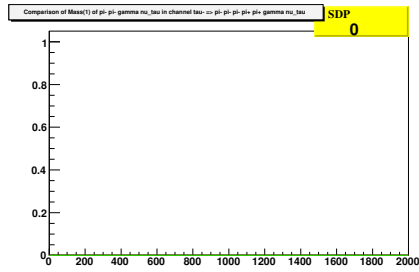
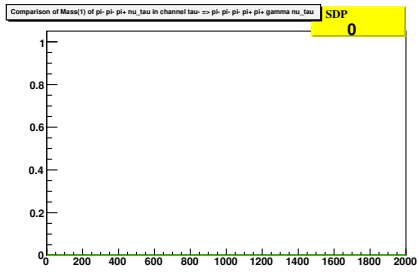
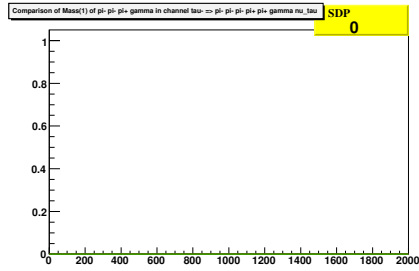
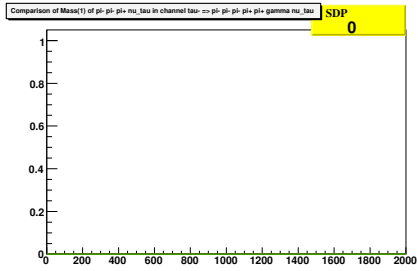
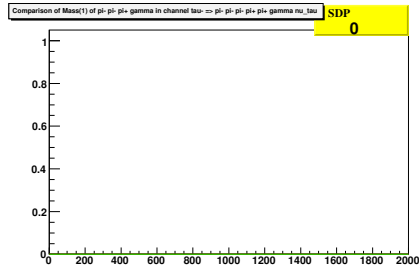
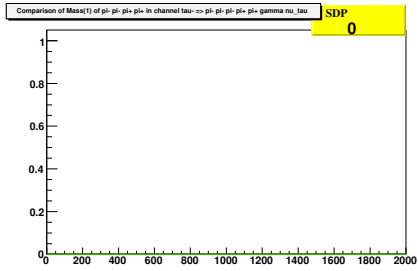
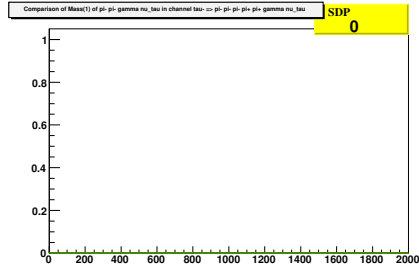
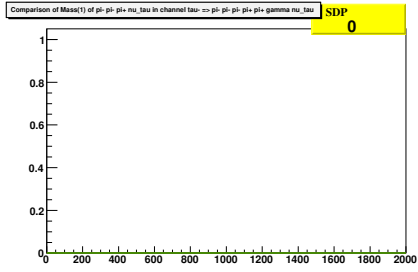


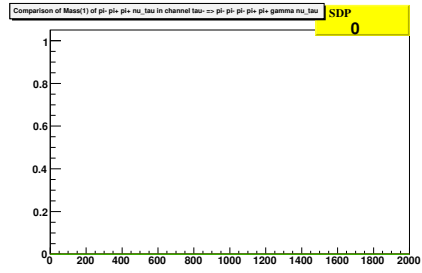
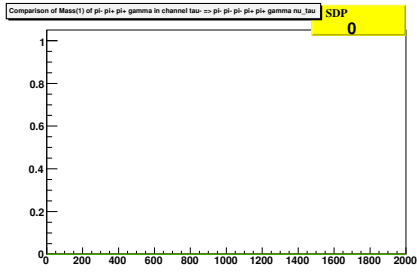
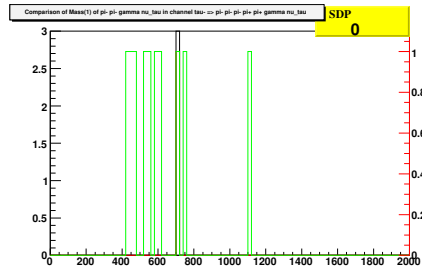
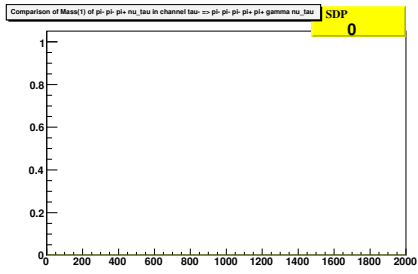
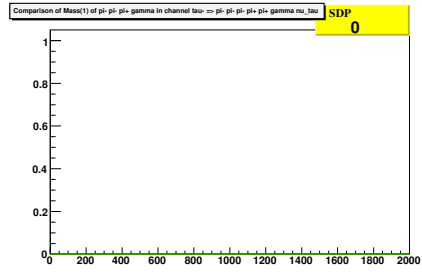
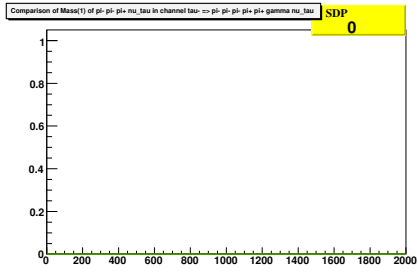
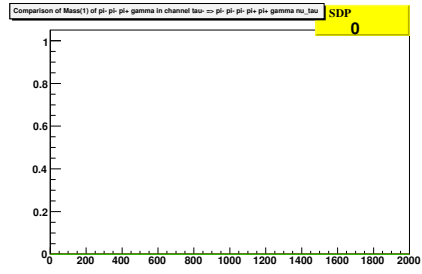
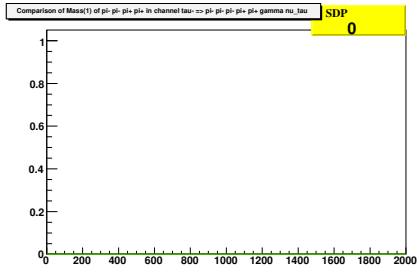
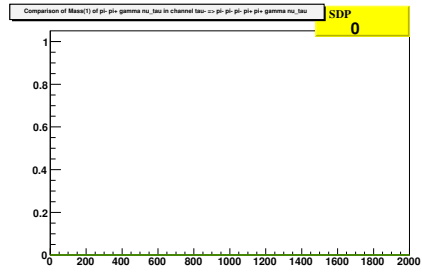
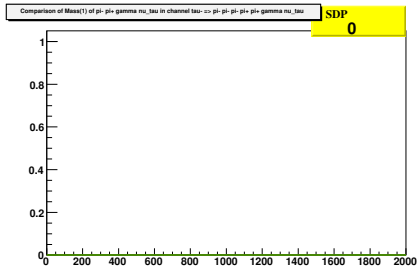


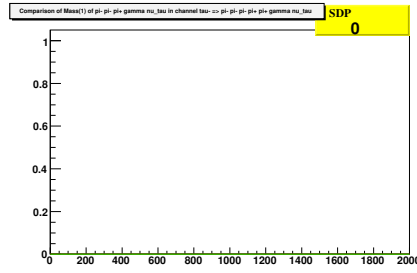
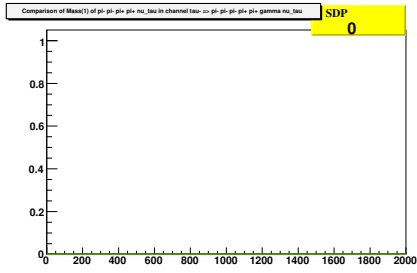
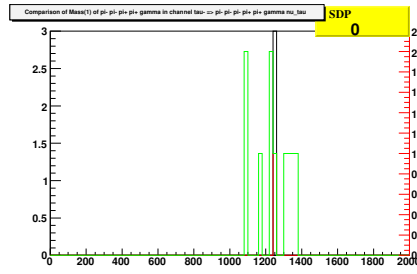
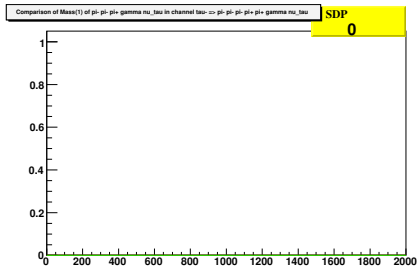
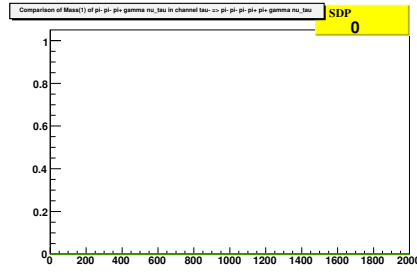
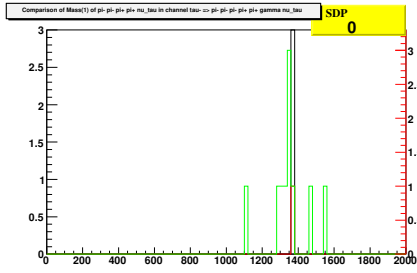
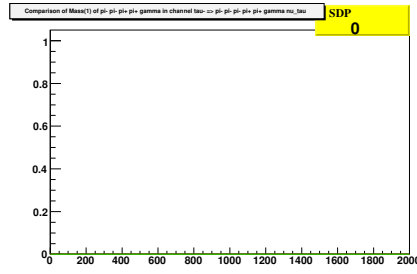
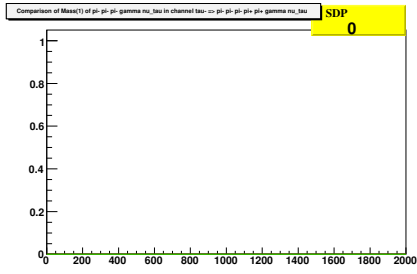
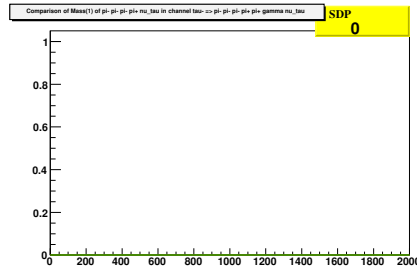
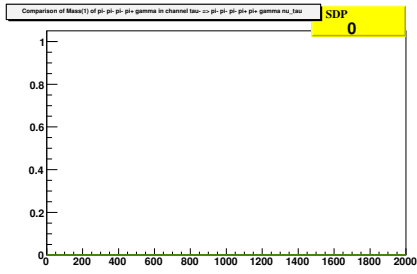


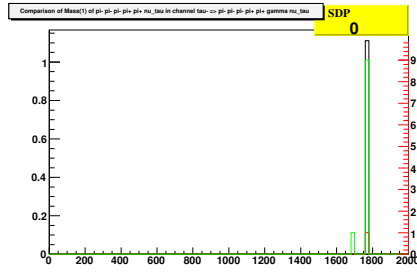
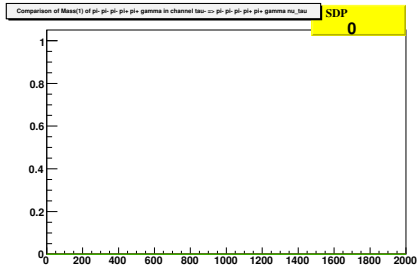
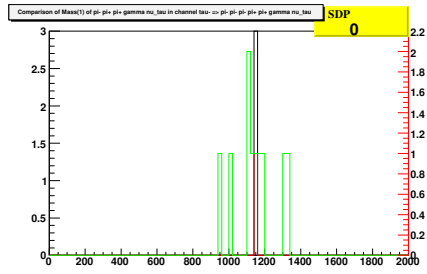
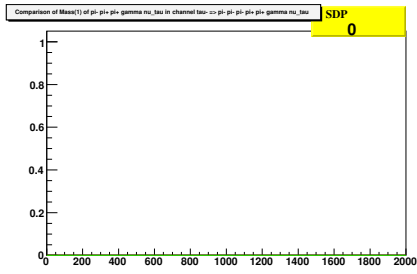
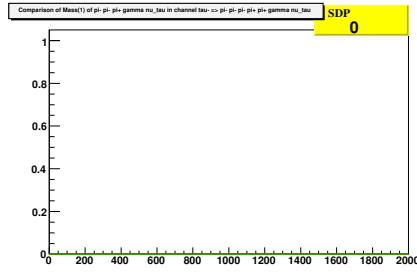
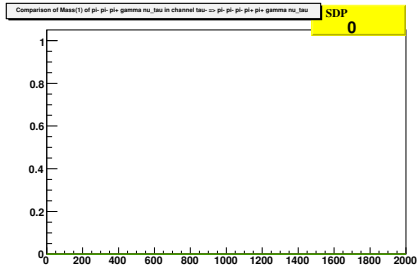
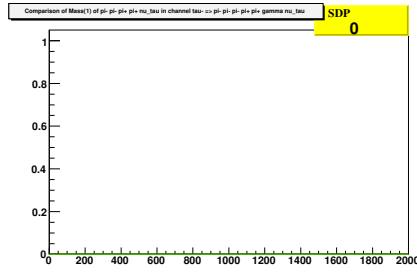
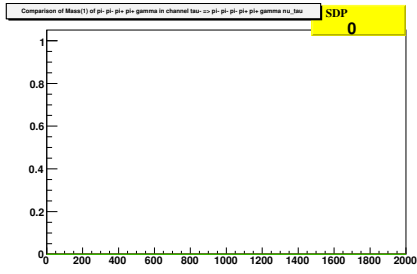
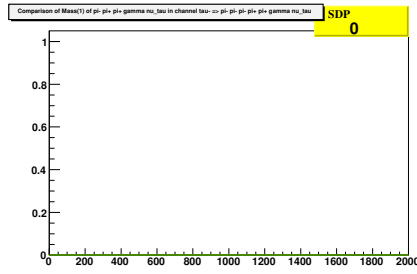
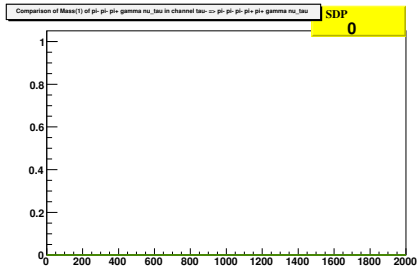


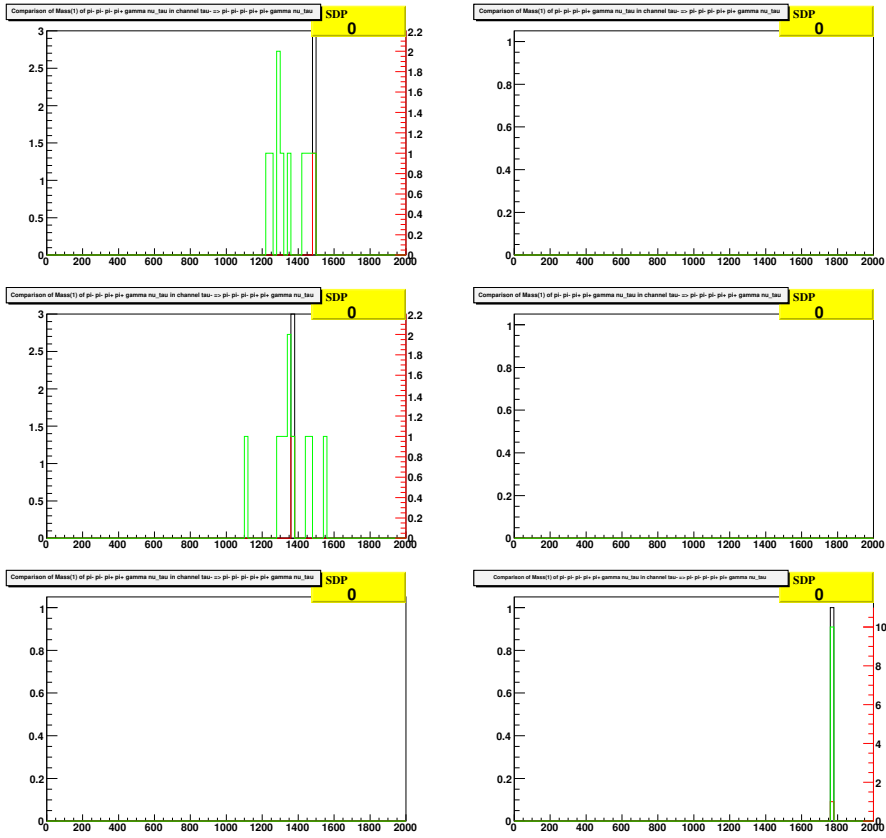






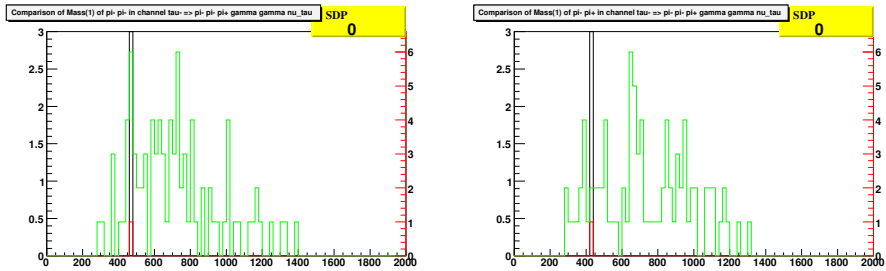


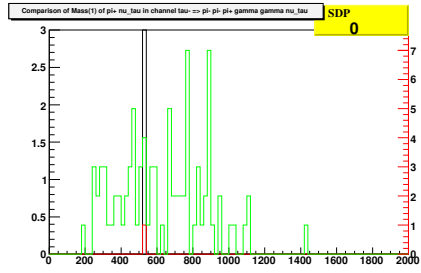
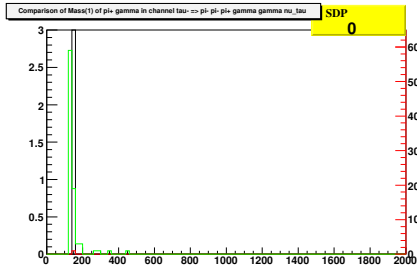
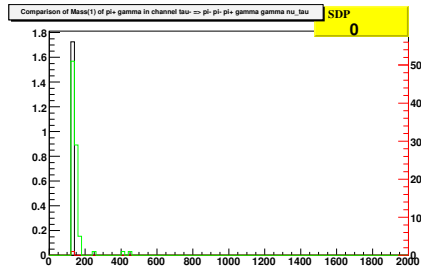
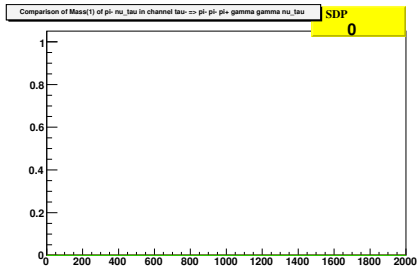
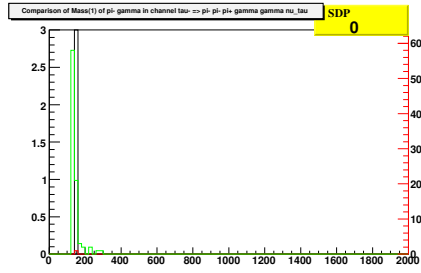
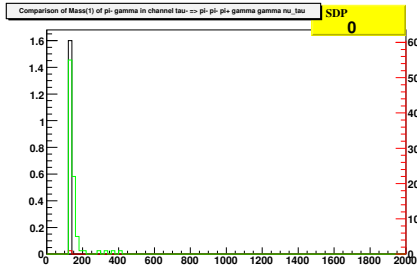
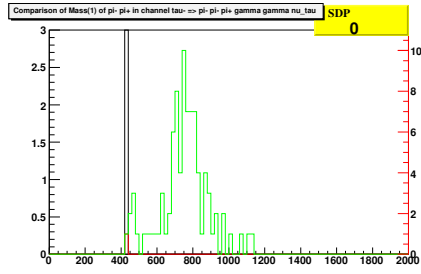
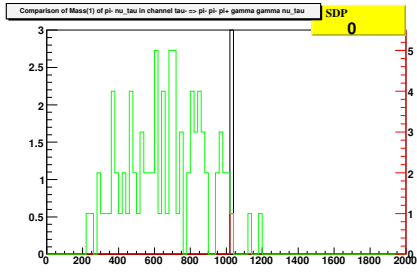
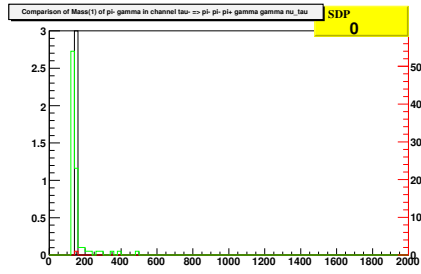
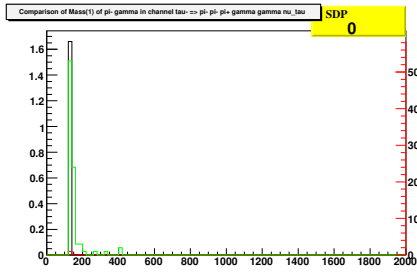


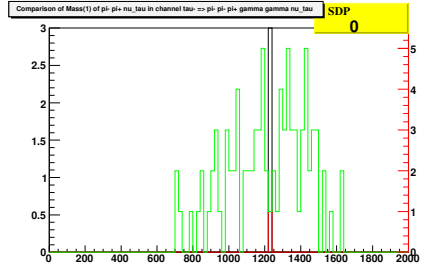
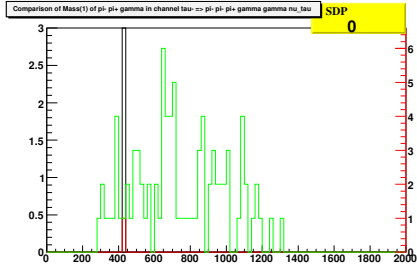
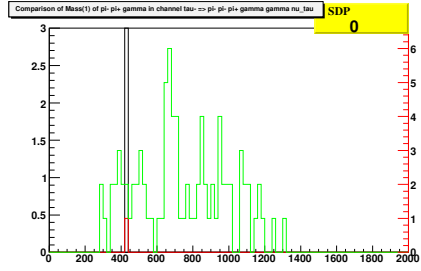
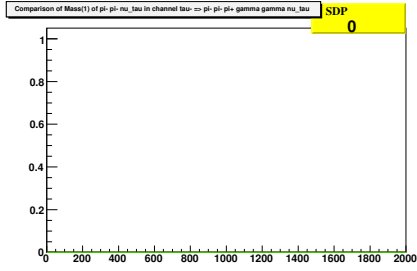
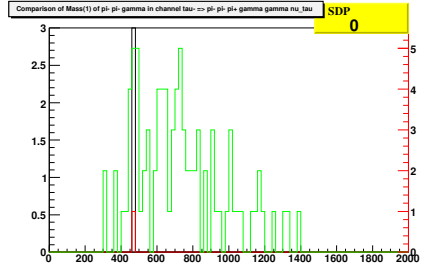
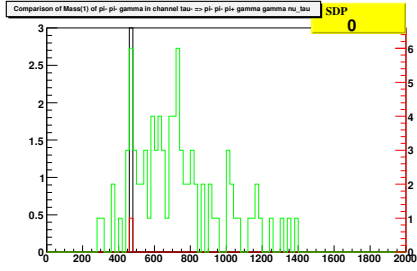
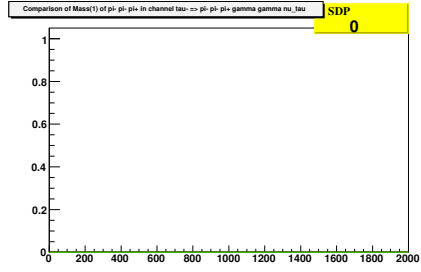
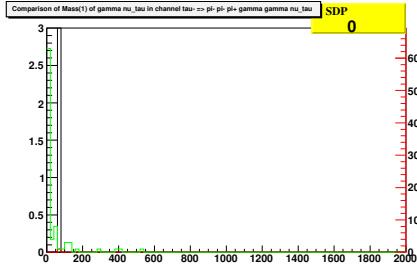
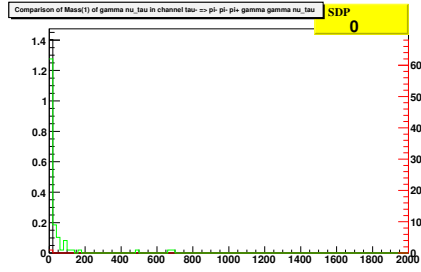
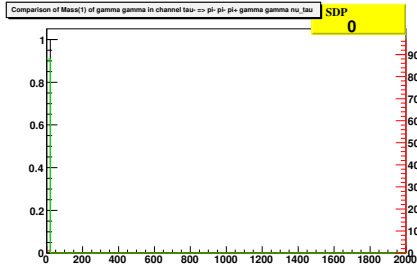


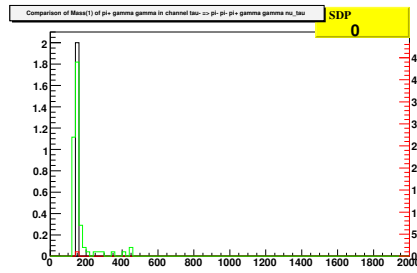
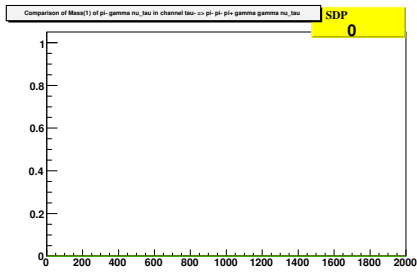
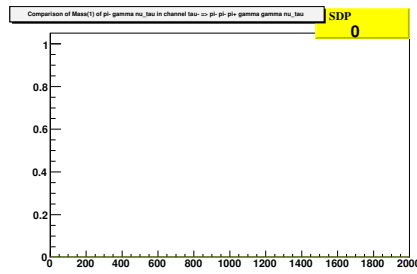
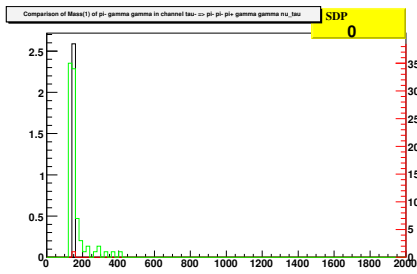
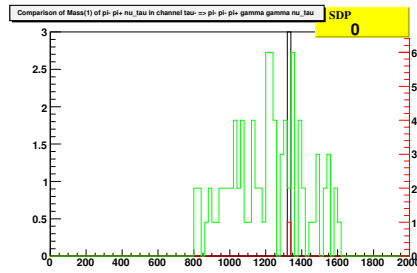
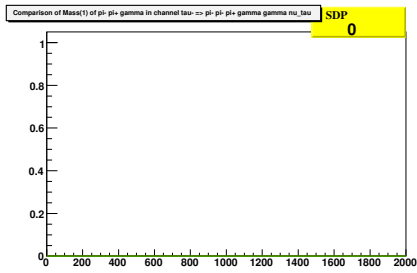
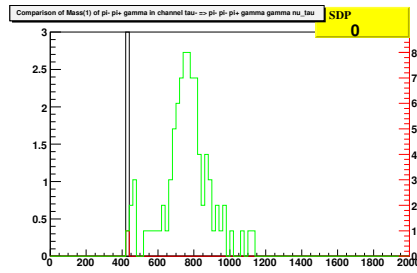
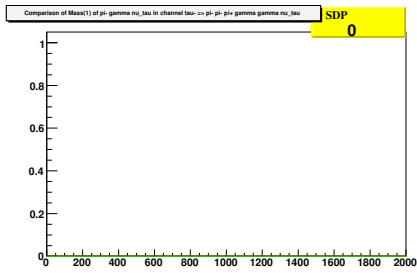
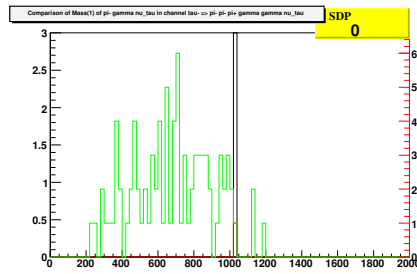
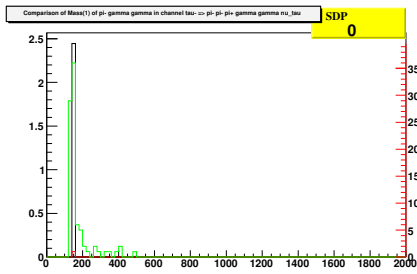
49 Decay Channel: $\tau^- \rightarrow \pi^- \pi^- \pi^+ \gamma \nu_\tau$

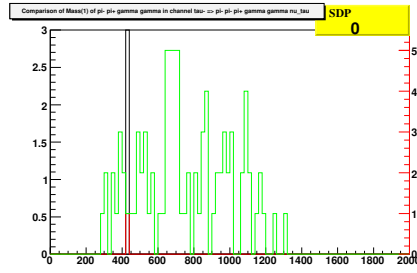
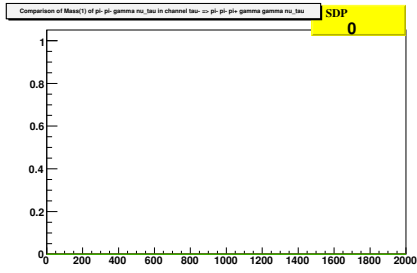
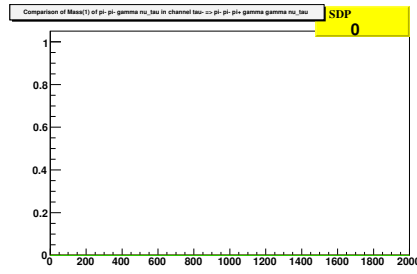
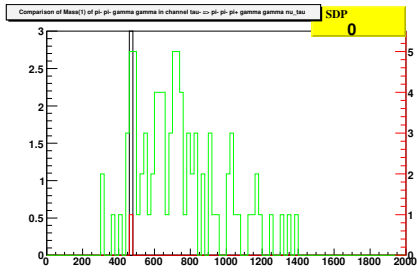
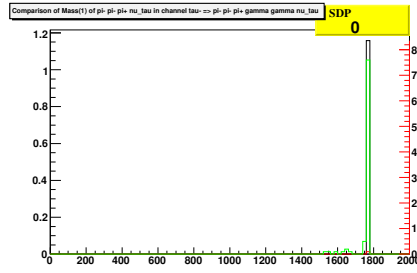
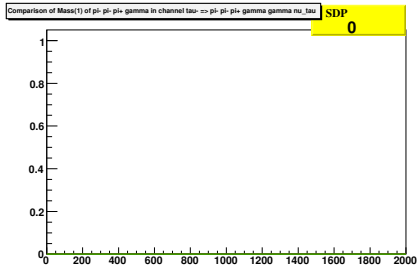
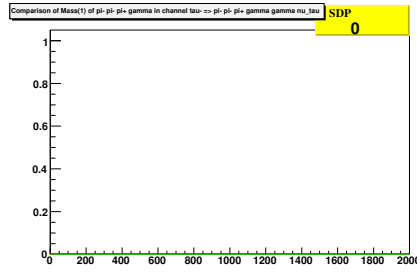
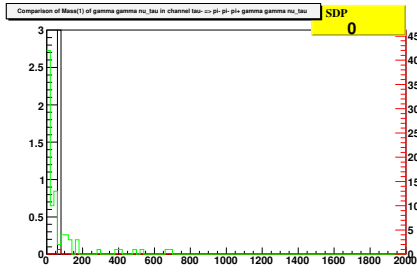
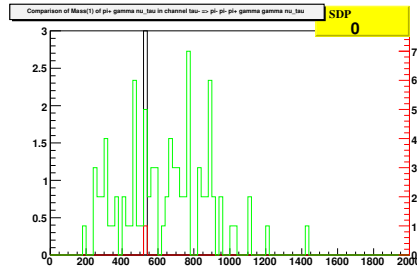
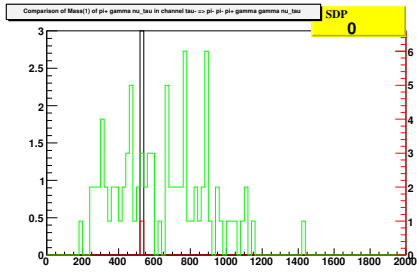
Number of events from generator 1: 1
 Number of events from generator 2: 88

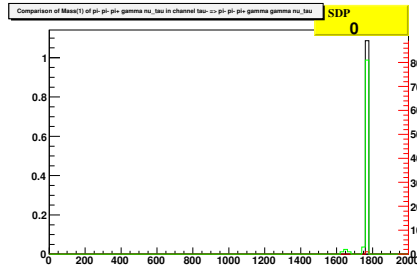
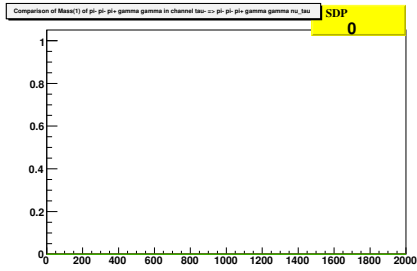
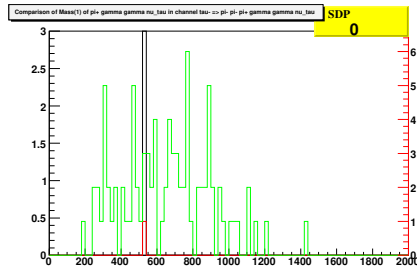
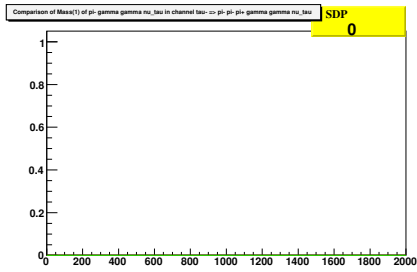
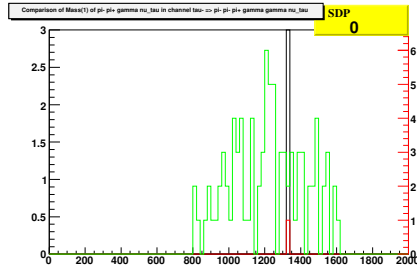
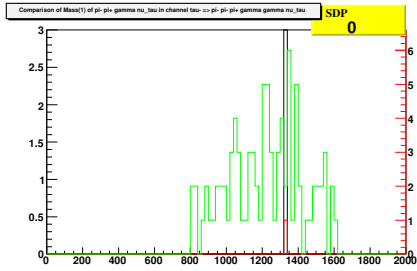
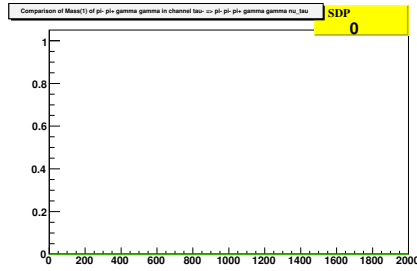
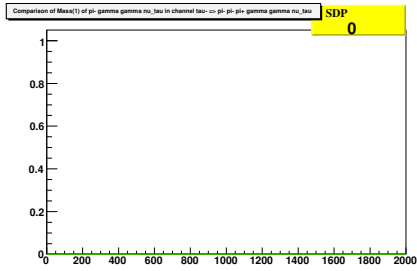
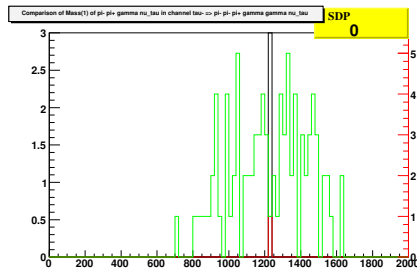
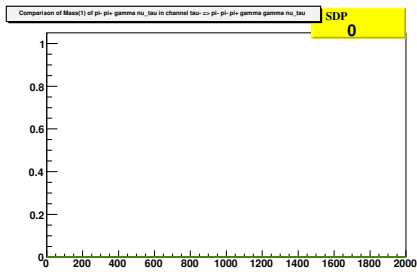


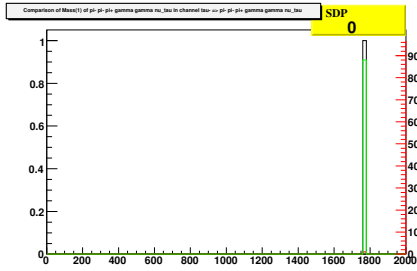
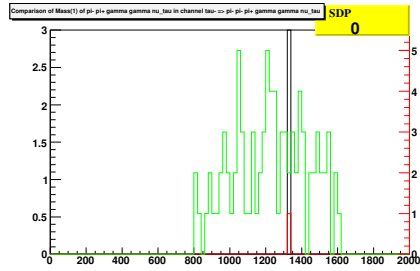
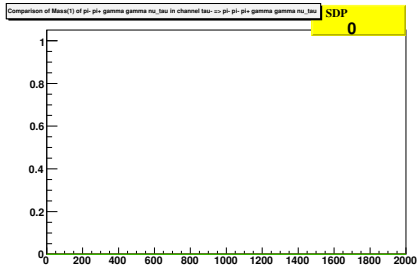
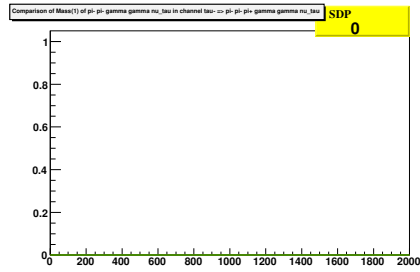
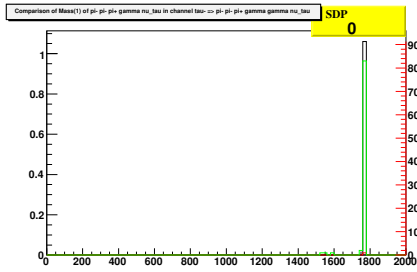












50 Decay Channel: $\tau^- \rightarrow \pi^- \pi^0 \gamma \gamma \nu_\tau$

Number of events from generator 1: 1

Number of events from generator 2: 4

