Tuesday 6 September 2005

1.00 P.M.

Opat Seminar Room (360)

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From Gamma Ray Bursts to Light in Ice

In the fireball phenomenology of Gamma Ray Bursts (GRBs) it is expected that the observed photons are accompanied by ultra-high energy neutrinos. Neutrinos originate in the decays of pions which would be produced when charged particles, accelerated in the shock front of the GRB, interacted with dense clouds of radiation or matter surrounding the GRB. It is one of the goals of the IceCube observatory to look for a neutrino signal from GRBs. We will present predictions for coincident GRB neutrino fluxes and the detection strategy for IceCube.

All Are Welcome