

Vulcano Workshop 2014 - Frontier Objects in Astrophysics and Particle Physics



Contribution ID: 25

Type: **not specified**

UHECR and GRB Neutrinos : incomplete revolutions ?

Friday, 23 May 2014 17:00 (25 minutes)

UHECR have been foreseen to trace nearby SuperGalactic Plane. Moreover UHECR have been expected to suffer by cosmic photon interaction of a consequent opacity, leading to a EeV neutrino secondary trace (GZK neutrinos). On the other side GRBs have been expected to produce in Fireball TeV-PeV neutrino burst at the same time of GRBs. Both of these three signature are missing.

Summary

After a century The Cosmic ray puzzles are becoming more and more surprising. Last decade and last year by UHECR maps, composition and spectra as well as ICECUBE PeV neutrino signals let to an unexpected revolution that did not fit any theoretical naive expectations.

Primary author: FARAGION, Daniele (Phys Depart and INFN rome SAPIENZA)

Presenter: FARAGION, Daniele (Phys Depart and INFN rome SAPIENZA)

Session Classification: Cosmic Rays