

Vulcano Workshop 2014 - Frontier Objects in Astrophysics and Particle Physics



Contribution ID: 56

Type: **not specified**

Ground-Based Gamma-Ray Astronomy

Thursday, 22 May 2014 09:00 (25 minutes)

When viewed at TeV energies the universe appears fundamentally different than when observed in the visible range. Thermal sources are non-existent and one sees only the most extreme objects: black holes from a few solar masses to billions of solar masses, neutron stars, and supernova remnants. These objects (and others) are capable of accelerating electrons and hadrons to energies well beyond a TeV. In addition to understanding these cosmic sources, one can use these sources to probe fundamental physics at scales not accessible to earth-bound accelerators. In this talk I will present an overview of ground-based gamma-ray astronomy, discuss the different techniques used to detect energetic gamma rays, and present recent results in fundamental physics and astrophysics.

Primary author: SINNIS, Gus (Los Alamos National Laboratory)

Presenter: SINNIS, Gus (Los Alamos National Laboratory)

Session Classification: Cosmic Ray origin, Gamma and Neutrino Astronomy