**RICAP'07 - Roma International Conference on Astroparticle Physics** 

Contribution ID: 36

Type: not specified

## The H.E.S.S. view of the Galactic Centre region

Thursday 21 June 2007 11:45 (15 minutes)

The detection of TeV gamma-rays from the direction of the Galactic Centre is one of the most exciting discoveries in recent years. Observations by the H.E.S.S. system of imaging atmospheric Cherenkov telescopes provide the most precise available data on this region in the energy range 150 GeV - 30 TeV. Gamma-rays produced in interactions of energetic particles with ambient material, magnetic fields, or low energy photons have proven an excellent tool to trace the particle accelerators in the sky and to learn about the particles' leptonic or hadronic nature. In particular, the H.E.S.S. discovery of diffuse gamma-ray emission along the Galactic Plane provides strong evidence for a source of hadronic cosmic rays at the centre of the milkyway. In this contribution the H.E.S.S. view of the Galactic Centre region is presented, and possible counterparts of H.E.S.S. sources are discussed.

Author: VAN ELDIK, Christopher (MPI for Nuclear Physics, Germany)Presenter: VAN ELDIK, Christopher (MPI for Nuclear Physics, Germany)Session Classification: Parallel Session: Gamma Detection