Contribution ID: **34** Type: **not specified**

Cosmic Accelerators with H.E.S.S.

Saturday 17 October 2015 09:45 (45 minutes)

The High Energy Stereoscopic System (H.E.S.S.) has provided a view of the Galactic Plane as well as the extra-Galactic sky in the southern hemisphere with unprecedented sensitivity. It has revealed powerful particle accelerators via their TeV emission within and outside the Galaxy showing their spatial, spectral and temporal characteristics. This helps us understand the physics of the individual sources as well as their environment. The studies of active galactic nuclei (AGN) in particular enable us to do TeV cosmology probing the extra-Galactic background light (EBL), as well as Lorentz Invariance violating effects. The addition of the new 28 mˆ2 telescope enables observations down to lower energies (< 100 GeV) and with better energy resolution. This allows to push further on all the aforementioned fronts. In this talk, I will highlight some of the more recent exciting results from H.E.S.S. on the Galactic Center, the Large Magellanic Clouds as well as the Active Galactic Nuclei and their implications on astroparticle physics in general.

Presenter: Dr CHAKRABORTY, Nachiketa (Max-Planck-Institut fuer Kernphysik)