



6th Roma International Conference on AstroParticle Physics



Contribution ID: 232

Type: **not specified**

LATTES: a new gamma-ray detector concept for South America

Thursday, 23 June 2016 18:30 (20 minutes)

Currently the detection of Very High Energy gamma-rays for astrophysics rely on the measurement of the Extensive Air Showers (EAS) either using Cherenkov detectors or EAS arrays with larger field of views but also larger energy thresholds. In this talk we present a novel hybrid detector concept for a EAS array with an improved sensitivity in the lower energies (~ 100 GeV). We discuss its main features, capabilities and present preliminary results on its expected performances and sensitivities. This wide field of view experiment is planned to be installed at high altitude in South America making it a complementary project to the planned Cherenkov telescope experiments and a powerful tool to trigger further observations of variable sources and to detect transients phenomena.

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Session Classification: g-rays