



Contribution ID: 19

Type: **not specified**

First results from coordinated data taking by the Extreme Energy Events experiment

Monday, September 14, 2015 1:00 PM (25 minutes)

The Extreme Energy Events (EEE) Project is an experiment, managed by the Fermi Centre, for the study of extremely high-energy cosmic rays, which exploits the Multigap Resistive Plate Chamber (MRPC) technology. The excellent time resolution and good tracking capability of this detector allows us to study Extensive Air Showers with an array of telescopes distributed all over the Italian territory. Each telescope is installed in a High School, with the additional goal to introduce students to particle and astroparticle Physics. The EEE array is composed of 47 telescopes, each made of three MRPC planes, spanning more than 10 degrees in latitude and 11 in longitude, organized in clusters and single telescope stations. The status of the experiment and the results, obtained during two recent coordinated data taking periods, will be reported. The observation of Forbush decreases, coincidence events among different telescopes and the muon decay, using more than 5 billions tracks collected in the last few months, are of particular interest.

Summary

overview of EEE results presented by D. De Gruttola for EEE Collaboration

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Session Classification: Cosmic Ray and Astrophysical Neutrino Detection

Track Classification: Cosmic Ray and Astrophysical Neutrino Detection