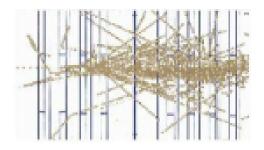
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Results of the Pierre Auger Observatory on Ultra High Energy Cosmic Rays

Wednesday, 28 May 2008 11:45 (15 minutes)

Summary

The Pierre Auger Observatory is a detector for cosmic rays that makes special

emphasis on the study of primaries with energies greater than 1019 eV. It consists of

1600 water tanks covering a surface of 3000 km2 and fluorescence detectors located in

4 stations overlooking that area which take data in coincidence with the tanks on

clear moonless nights.

This hybrid arrangement allows a determination of the energy and incidence angles of

each cosmic ray with small systematic errors. Data has been gathered steadily for the

last years while the detector components were being installed. Results on the

spectrum, composition, high energy photon and neutrino flux limits and anisotropy of

cosmic rays with energy in excess of 1019 eV will be presented.

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Session Classification: Astrophysics and neutrinos

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