



Contribution ID: 102

Type: talk

Measurement of the energy spectrum of cosmic rays at highest energies using the Pierre Auger Observatory

Tuesday, February 14, 2012 9:30 AM (20 minutes)

We report a measurement of the flux of cosmic rays with unprecedented precision and statistics using the Pierre Auger Observatory. Based on fluorescence observations in coincidence with at least one surface detector we derive a spectrum for energies above 10^{18} eV. We also report on the energy spectrum obtained with surface detector arrays of 1500m and 750m spacing for events with zenith angles less than 60 degrees and 55 degrees respectively. The spectrum derived from inclined events will be given account as well. The spectral features are presented in detail and the impact of systematic uncertainties on these features are addressed.

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Session Classification: Experimental challenges of UHECR