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Summary of the KASCADE-Grande experiment results

Tuesday, September 15, 2015 4:10 PM (25 minutes)

The KASCADE-Grande experiment operated since 2003 to 2012 measuring cosmic rays in the 10^{16} - 10^{18} eV energy range.

In this talk I will show and discuss the main results obtained in the study of the primary spectrum (that cannot be described by a single power law in this energy range), chemical composition (a steepening of the heavy component spectrum and a hardening of the light one have been detected) and large scale anisotropies.

I will also show the more recent analysis performed on the muonic EAS component and on the search for gamma rays generated events.

We will show that the spectral features detected in the primary spectrum do not depend on the hadronic interaction models used in the EAS simulations to calibrate the experiment.

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