



Contribution ID: 9

Type: **Talk**

Cosmic Rays in the Galactic Magnetic Field

Tuesday 4 October 2011 17:00 (20 minutes)

Cosmic rays with energies up to 10^{20} eV have been seen by the Pierre Auger Collaboration and other experiments. There are still many unanswered questions concerning cosmic rays in this ultra-high-energy regime. For instance the measured structure of the flux, the incoming direction and the composition of the cosmic rays still bear question-marks. A possible explanation for these three problems, involving the interaction of these cosmic rays with the galactic magnetic field, will be presented in this talk.

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Session Classification: Student session

Track Classification: Student session