

## **Earth's gamma-ray emission in geographical coordinates with Fermi-LAT data**

*Wednesday, June 8, 2016 11:30 AM (15 minutes)*

The Earth's gamma ray emission is produced from the interactions between cosmic rays (CRs), high-energy particles in space, and the Earth's upper atmosphere. These gamma rays are measured by the Large Area telescope (LAT), the instrument onboard the *Fermi* Gamma-ray Space Telescope (*Fermi*) which was launched in 2008 to orbit the Earth at the altitude of ~540 km. Here we present preliminary results of the Earth's gamma ray intensity, which for the first time has been analyzed in geographical coordinates, using the latest version of LAT data. This study will provide better understanding of the geomagnetic field, the Earth's upper atmosphere, and CRs.

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**Session Classification:** session I

**Track Classification:** Astronomy, Astrophysics and Cosmology