

ICHEP2012



Contribution ID: 854

Type: **Parallel Sessions**

## The Fermi Large Area Telescope at 4: the Surprising Gamma-Ray Sky.

*Saturday, July 7, 2012 5:15 PM (15 minutes)*

The Fermi Large Area Telescope (LAT) has been operating since June 2008 and observes the gamma-ray sky from 20 MeV to over 300 GeV. The first four years of the LAT era have seen numerous exciting scientific results, some expected and others unexpected. In this talk I will discuss the current state of our understanding of the gamma-ray sky. In particular, I will describe how the Fermi-LAT has improved our accounting of the contributions from known astrophysical source classes, including some previously undiscovered, and how we can disentangle such contributions from signatures of particle dark matter interactions and other possible signatures for new physics

**Primary author:** Dr CHARLES, Eric (SLAC (US))

**Presenter:** Dr CHARLES, Eric (SLAC (US))

**Session Classification:** Room 216 - Particle Astrophysics and Cosmology -TR11

**Track Classification:** Track 11. Particle Astrophysics and Cosmology