

## Vulcano Workshop 2014 - Frontier Objects in Astrophysics and Particle Physics



Contribution ID: 54

Type: **not specified**

### **Are we seeing dark matter with the Fermi-LAT in a region around the Milky Way center?**

*Tuesday, 20 May 2014 17:00 (25 minutes)*

There is overwhelming evidence that non-baryonic dark matter constitutes  $\sim 27\%$  of the energy density of the universe. Weakly Interacting Massive Particles (WIMPs) are promising dark matter candidates that may produce gamma rays via annihilation or decay detectable by the Fermi Large Area Telescope (Fermi-LAT). Cosmological N-body simulations predict the central part of a galaxy to enclose the highest dark matter density all over the galaxy. I will discuss recent results from indirect WIMP searches in the data collected by the Fermi-LAT from the region around the Milky Way center.

**Primary author:** GOMEZ VARGAS, German Arturo (Universidad Catolica de Chile - INFN Roma Tor Vergata)

**Presenter:** GOMEZ VARGAS, German Arturo (Universidad Catolica de Chile - INFN Roma Tor Vergata)

**Session Classification:** Dark Matter