

Vulcano Workshop 2014 - Frontier Objects in Astrophysics and Particle Physics



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Indirect Searches for Dark Matter with the Fermi Large Area Telescope

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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). A detection of WIMPs would also indicate the existence of physics beyond the Standard Model. I will present results from a variety of recent indirect WIMP searches by the Fermi LAT Collaboration, including our two “cleanest” searches: spectral lines and dwarf spheroidal galaxies.

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