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## **Dr. ZAHARIJAS, Gabrijela (CEA Saclay): Constraints on Dark Matter Annihilation from the Fermi-LAT Diffuse Gamma-Ray Measurement**

*Tuesday, 14 September 2010 17:45 (15 minutes)*

The diffuse measurement of the Fermi Large Area Telescope (LAT) can be a powerful tool in constraining the dark matter properties. In this talk, I will present constraints on dark matter models derived from the intensity and spectral shape of the Fermi-LAT Isotropic diffuse data. I will discuss the relation of the cosmological dark matter signal to the one coming from within our Galaxy, as well as preliminary dark matter constraints coming from the analysis of the Galactic diffuse data. Finally, I will comment on the benefits of complementarity between Fermi-LAT and ground-based Cerenkov observations to robustly constrain some particle physics models.

**Session Classification:** 6 talks (Chair: Pierre SALATI)