## Light Dark Matter annihilation in model independent approach.

Tuesday, 28 July 2009 15:40 (20 minutes)

We examine annihilation of light bosonic Dark Matter into pair of photons in model-independent way. We consider the simplest generic Lagrangian describing such process and then compare results to the available experimental data. We match effective generic lagrangian to results obtained within particular Dark matter models and determine possible constrains onto parameter space of those models.

**Primary author:** BADIN, Andriy (Wayne State University)

**Co-authors:** Prof. PETROV, Alexey (Wayne State University); YEGHIYAN, Gagik (Wayne State University)

**Presenter:** BADIN, Andriy (Wayne State University)

Session Classification: Particle Astrophysics and Cosmology II

Track Classification: Particle Astrophysics and Cosmology