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Optimal Conservative bounds on DM with Fermi Telescope

Monday, 5 May 2014 15:00 (15 minutes)

The Fermi ɣ-ray Space Telescope has observed the sky since 2008. Dark matter annihilations or decays contribute to the measured diffuse gamma-ray background flux. We present conservative bounds on annihilation cross section or decay lifetime. We consider DM annihilation/decay into 12 different Standard Model final states, 3 DM density profiles and 2 GeV < m_{DM} < 10 TeV , performing no astrophysical foreground modeling.

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