

The observed properties of dark matter on small astrophysical scales, and the number of small satellites

Thursday 19 July 2007 11:30 (40 minutes)

New dynamical studies and discovery searches for the smallest dark matter dominated galaxies will be presented. Dark matter in dSph galaxies has a mean volume mass density within the stellar distribution which always has a very low value of about $5\text{GeV}/c^2 \text{cm}^{-3}$. The mass profiles appear cored, not cusped as predicted by Cold DM models. Galaxies are embedded in dark matter halos with these properties; small systems containing dark matter are not observed.

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Session Classification: Miniworkshop