

Astrophysical observables for constraining dark matter properties and distribution

mercredi 12 octobre 2011 11:05 (35 minutes)

In this twofold talk I will first show how it is possible to use Microlensing observations of our Galaxy together with observations of its rotation curve to learn about the distribution of DM. Using this technique it is in fact possible to rule out extreme flavors of NFW or Einasto distribution profiles, as well as obtain an estimate of the local (at Earth and Sun) DM density.

In the second (shorter) part, I will show the updated constraints on DM self-annihilation cross section, obtained with the WMAP7 observations of the CMB.

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Classification de Session: Dark Matter