## Astroparticle Physics - A Joint TeVPA/ IDM Conference



Contribution ID: 106

Type: Presentation

## Dark Matter in the Milky Way: model-independent determination.

Friday 27 June 2014 14:40 (20 minutes)

We use a new compilation of data for the Rotation Curve of our own Galaxy in order to assess evidence for a Dark component of matter. We construct the rotation curve expected from a large sample of models of the baryonic (star and gas) component of the Milky Way, and infer the missing component with high statistical evidence. This model-independent approach shows evidence for a dark component without any explicit dependence neither on the shape of the DM profile, nor on the properties of stellar population dynamics, typically affecting this sort of analysis.

Author: IOCCO, fabio (Instituto de Fisica Teorica)
Co-authors: BERTONE, Gianfranco; Dr PATO, Miguel (TUM Munich)
Presenter: IOCCO, fabio (Instituto de Fisica Teorica)
Session Classification: Dark Matter: Cosmological Aspects

Track Classification: Dark Matter: Cosmological Aspects