



Contribution ID: 6

Type: **not specified**

Modeling cosmic ray propagation in the Galaxy

Thursday 22 January 2015 15:20 (20 minutes)

At GeV-TeV energies the propagation of CRs is diffusive. Current models of galactic propagation are based on a simplified approach for which diffusion is constant and isotropic.

In fact, diffusion transport must be described as in-homogenous and anisotropic and experimental data have now reached an accuracy that allows to study such effects.

In my talk, I will present some of the consequences of adopting realistic diffusion models for the propagation of galactic CRs, and I will show how these models allow a better understanding of local observations and diffusion emissions within an unified framework.

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Session Classification: Modeling: particle acceleration and propagation