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Galactic cosmic ray propagation models using Picard

Saturday 1 August 2015 15:30 (1 hour)

We present results obtained from our newly developed Galactic cosmic ray transport code Picard, that solves the cosmic ray transport equation. This code allows for the computation of cosmic ray spectra and the resulting gamma-ray emission. Relying on contemporary numerical solvers allows for efficient computation of deca-parsec scale resolution models. Picard can handle locally anisotropic spatial diffusion acknowledging a full diffusion tensor. We used the framework to investigate the transition from axisymmetric to spiral-arm cosmic ray source distributions. Wherever possible we compare model predictions with constraining observables in cosmic ray astrophysics.

Collaboration

– not specified –

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599

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