

Relativistic Cosmic Ray transport code

We present a prototype code which implements a new way to model relativistic Cosmic Ray transport. It is based on a numerical solution to the Vlasov-Fokker-Planck equation in conjunction with a spherical harmonic expansion of the single particle distribution function. It allows for the computation of the anisotropies in the distribution of Cosmic Rays up to very high accuracy. Such effects are essential to account for the non-diffusive transport of particles close to sources.

Primary authors: SCHWEEN, Nils (Max-Planck-Institut für Kernphysik); Dr REVILLE, Brian (Max-Planck-Institution für Kernphysik)

Presenter: SCHWEEN, Nils (Max-Planck-Institut für Kernphysik)

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