Erratum: Cosmic-ray nuclei, antiprotons and gamma-rays in the galaxy: a new diffusion model

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1 Errata

Instead of:

• we developed a new numerical code, DRAGON (Diffusion of cosmic RAys in Galaxy modelizatIOn). DRAGON is especially designed to account for a spatially inhomogeneous and an-isotropic diffusion coefficient.

should be:

• we developed a new numerical code, DRAGON (Diffusion of cosmic RAys in Galaxy modelizatIOn). The main focus of the project is on CR transport. The code solves a general version of the diffusion equation allowing for position-dependent diffusion; the solver is linked to routines and data tables taken from the current public version of GALPROP.1 (see the text for more details)

1 Galprop code can be downloaded from: http://galprop.stanford.edu.
Instead of:

- As in GALPROP (see [1] and references therein) the spallation cross sections and the spallation network are based on a compilation of experimental data and semi-empirical energy dependent interpolation formulas as provided e.g. in [2–4].

should be:

- We included the routines and data tables taken from the public version of GALPROP [1]. In more detail, the material included in our code contains (see, also, [5]):
  1) the nuclear reaction network, built using the Nuclear Data Sheets;
  2) the isotopic cross section database built using the T16 Los Alamos compilation [6] and the CEM2k and LAQGSM codes [7];
  3) fits to some particular channels of isotopic production cross section [8–10];
  4) phenomenological approximations adapted from [11] and [12];
  5) inelastic cross section database adapted from [13, 14].

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