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Nuclear interactions in the flare sites

Abstract content

We consider the production of light isotopes due to nuclear interactions and acceleration in flare regions. The Monte-Carlo method allows us to take into account several steps of particle interactions with ambient plasma. In our model high abundance ratios of He3/He4 are obtained at certain simulation parameters. Subsequent interplanetary propagation effects could result in the energy spectra of He3, He4 nuclei similar to the observed ones. The abundance of D and T in the outgoing particle flux is likely due to the angular distribution of these isotopes in flare regions.

If this papers is presented for a collaboration, please specify the collaboration

Summary

Reference

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