

A V-Shaped Gutter on the Heliopause Surface and the Trace of the Galactic Cosmic Ray

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The global structure of the heliosphere under the interaction between the solar wind and the local interstellar medium is studied by an MHD computer simulation. A V-shaped gutter on the nose-cone surface of the heliopause caused by MHD processes is found in this simulation.

The trace of the galactic cosmic ray in the magnetized heliosphere is also studied by the Runge-Kutta method.