

The solar modulation of galactic cosmic rays during the cycle 23/24

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The intensity of galactic cosmic rays depends on the strength of the interplanetary magnetic field (IMF), the polarity of the IMF, tilt angle of the current sheet, and the velocity of the solar wind. So we have to take into account these parameters in the numerical simulation of the solar modulation of galactic cosmic rays.

In this presentation, we present the results of the numerical simulation of the solar modulation of galactic cosmic rays during the cycle 23/24. We also discuss about the solar modulation during the cycle 25.

Keywords: galactic cosmic ray, solar modulation, heliosphere, Interplanetary magnetic field