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Cosmic ray anisotropy in the different situations of the solar wind

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Variations of the cosmic ray vector anisotropy observed on Earth are closely related on the condition of near Earth interplanetary medium. The hourly characteristics of vector anisotropy obtained by the global survey method from the data of world wide neutron monitor network during 1957-2013 allow us to investigate connection of the cosmic ray anisotropy with the solar wind parameters. Characteristics of CR anisotropy for various combinations of the interplanetary parameters corresponding to various conditions of the interplanetary medium are compared. Opportunity to judge on condition of a solar wind by cosmic ray anisotropy is discussed.

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