

マウンダー極小期における宇宙線の22年変動 22-year cycles of cosmic rays at the Maunder Minimum

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Due to the weakened solar magnetic activity and consequent change in the heliospheric environment, flux of the galactic cosmic rays incident to the earth had characteristic time variability at the Maunder Minimum (AD1645-1715). Drift effect played an important role in the transport of cosmic rays in the heliosphere, and hence the Hale 22-yr cycles were intensified during the time. Such a characteristic variation of cosmic rays enable us to also understand the cosmic ray-climate connection. In this paper, we report the detailed features of cosmic ray variation revealed by the high precision measurements of carbon-14 and beryllium-10.

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