

R010-15

Zoom meeting C : 11/4 AM2 (10:45-12:30)

11:30-11:45

太陽活動極小期の発生プロセスの詳細解析に向けて

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Towards a detailed analysis of the onset process of the grand solar minimum

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In this presentation, we report our recent attempts to reveal the detailed onset process of the grand solar minima. Annually measured carbon-14 data have suggested that solar cycles got lengthened during the grand minimum and that it had even started a few cycles before the onset. In order to accurately determine the transition of the cycle lengths around the onset of the grand minima, we are improving the precision of the measurements with Accelerator Mass Spectrometer at Yamagata Univ. We have also developed a new methodology to reconstruct past solar and cosmic-ray variations using carbonate deposits. We introduce the present status of our experiments and discuss future prospects.