

昭和基地での宇宙線観測実験の現状

4 years of cosmic ray observation at Syowa Station in the Antarctic

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Since 2018, cosmic ray observation at Syowa station is on course to accumulate data. Despite operating in an inhospitable environment, muon detector (MD) and neutron monitor (NM) have been operating without any serious trouble. Although not many space weather events were observed because of the low solar activity, an observed event in 2018 led to analyze network observation data by GMDN and found interesting feature of the event (Kihara et al., 2021). Another space weather event were detected in Nov., 2021. Clear decreases are observed in both MD and NM data. This can be the first sample of space weather event observed simultaneously in one position for MD and NM. During these years, it happen to coincide with beginning of solar cycle 25. It is planned to make the system works with two complete set for conducting functional improvement. It is expected to derive valuable data in the new solar cycle.

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