

Measurement result of the neutron monitor onboard Space Environment Data Acquisition Equipment-Attached Payload (SEDA-AP)

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To support future space activities, it is very important to acquire space environmental data related to space radiation degradation of space parts and materials and spacecraft anomalies. Such data are useful for spacecraft design and manned space activity.

Space Environment Data Acquisition-Attached Payload (SEDA-AP) measures the space environment around the International Space Station (ISS) by being attached to the Exposed Facility(EF) of the Japanese Experimental Module ("Kibo"). The Neutron Monitor (NEM) is one of the detectors in SEDA-AP. This instrument was developed to measure the solar neutrons which are produced by solar flare event. The mission objectives, instrumentation and measurement status of the neutron monitor are reported.