

SPACEDOS – an open-source PIN diode dosimeter for applications in Space

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A new open-source dosimeter - Spacedos - for measurement of cosmic radiation onboard spacecraft and small satellites has been developed. Its main advantages are that it is small, lightweight with low power consumption. It can be adjusted for specific applications, e.g. used in pressurized cabins of spacecraft or in vacuum environment in CubeSats or larger satellites. The open-source design enables better portability and reproduction of results than other similar detectors.

The detector has already successfully performed measurements onboard the ISS. The obtained results will be discussed and compared with those measured with other detectors such as thermoluminescent and plastic nuclear track etched detectors, placed in the same location as Spacedos.

Přihlásit do soutěže

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