As supplied, the detector will detect β-particles, ϒ-rays and cosmic muons.

The new detector uses two separated scintillator detectors to eliminate the random β-particles and ϒ-rays from cosmic muons.

All events (β-particles, ϒ-rays and cosmic muons) are output as a CSV file on a micro-SD card or to serial via USB connected to a PC

Full software is available to record, process and plot events and display on your local intranet using a Raspberry Pi4/5

For ongoing support, there is a **user forum** - where discussion, questions and ideas can be shared.

PicoMuon family

Front view

Rear view

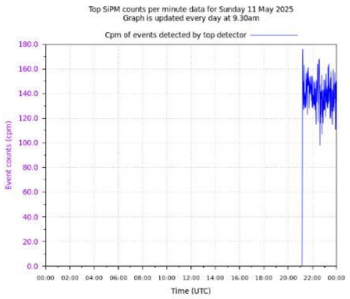
After only 12 hours, data collected is very limited – this is presented as demonstration that detector is working and collecting data at LRO.

This data is from my **PicoMuon** detector

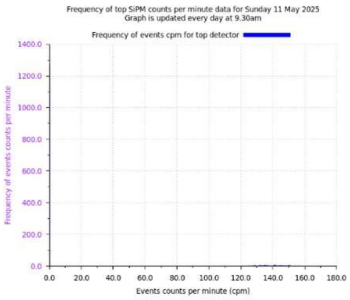
The detector is located in my study

No accuracy is claimed for any published data

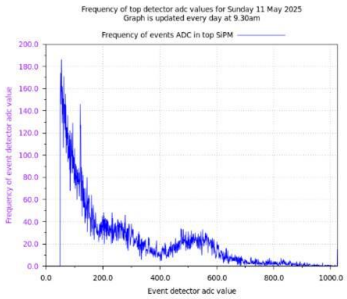
Top detector cpm



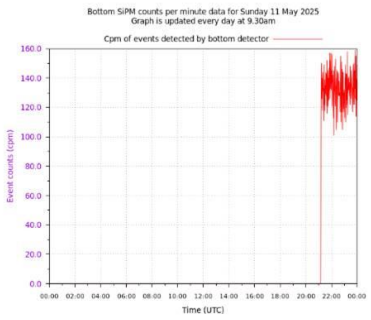
Top detector cpm frequency



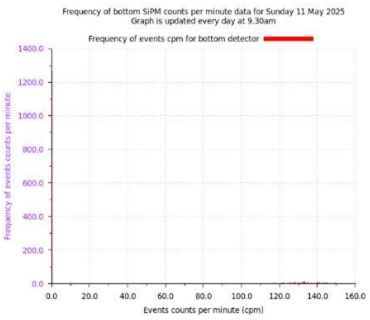
Top detector adc frequency



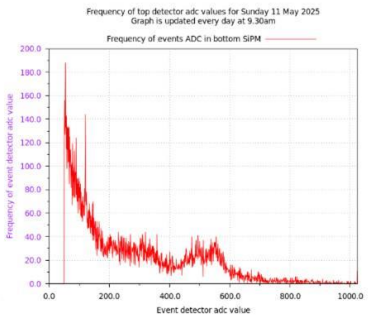
Bottom detector cpm



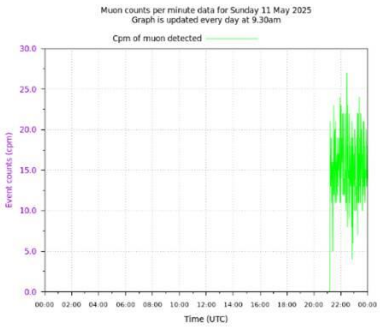
Bottom detector cpm frequency



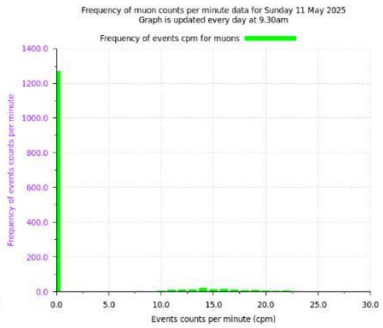
Bottom detector adc frequency



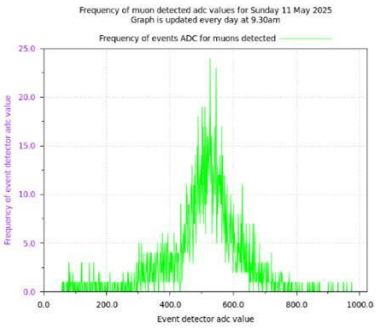
Muons cpm



Muons cpm frequency



Muons adc frequency



% change of muon and neutron count rate from mean count rate for Sunday 11 May 2025
Graph is updated every day at 9.30am