

Isolated S1 signals in the Lux-Zeplin detector

Monday 7 April 2025 19:40 (20 minutes)

We investigated the rate of isolated S1 accidental signals in the Lux-Zeplin detector in the period following a major power cut at the Sanford Underground laboratory. We found increases in peaks in isolated S1 rate, often corresponding to adverse conditions in the detector. We also found the timeseries of single scatter signals over the same period and apply an XY cut on an activity hotspot region in order to compare this to our isolated S1 signal timeseries.

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Session Classification: Poster session