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Detection of ionizing particles with monolith scintillator and segmented photodetector

Tuesday, 30 August 2022 18:00 (1h 30m)

A simple framework for obtaining simultaneous energy and interaction position measurements from gamma particle interactions was developed in simulation and in hardware. The framework provides a method for obtaining the time of arrival and three methods for obtaining the interaction position, centroid, multiple maxima and an ML algorithm trained by simulation. Results of the simulations and the prototype performance are presented.

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