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PSD capabilities of a SiPM-based Readout Board

Saturday, 1 December 2018 11:55 (10 minutes)

Much work has already been done developing a compact fast neutron camera for field deployment. However, mobility of the current designs are limited in part by the inclusion of large photomultiplier tubes (PMTs). Replacement of PMTs with silicon photomultipliers (SiPMs) coupled to a crystal scintillator promises a reduction in size and power, and thus an increase in mobility of current systems. This presentation will be a broad overview of a proof of concept board that can do PSD between fast neutrons and gammas for a single channel from a SiPM array. After testing, the goal will be to scale to multiple channels.

Session

Lightning Round (5+3 min)

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