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Design and Implementation of a Photon Detector using SiPM Sensors and Data Processing Based on Artdaq

In this work, was designed a signal amplification system generated by SiPM sensors to detect photons created by the interaction of muons with plastic scintillators. The Corsi model was used to analyze different electronic topologies for data reading and noise filter using operational amplifiers. Two types of configurations were considered: Transimpedance and Charge Integrator, which were compared according to the requirements of the experiment.

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