

Characterization and validation of SiPM for the DUNE Far Detector Photon Detection System

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This work is focused on the validation and test activities of the SiPMs for the DUNE experiment. The results obtained during a first down-selection envising a full characterization of the devices both at room and cryogenic temperatures (77 K), are reported. A campaign of validation of all the SiPMs (~300000) produced basing on these results, is currently ongoing. A description of the semi-automated system used to validate the sensors is given along with the results obtained so far.

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