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KM3NeT Acquisition Electronics: New Developments and Advances in Reliability

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The KM3NeT Collaboration is currently building a neutrino observatory at the bottom of the Mediterranean Sea. The telescopes are equipped with thousands of Digital Optical Modules hosted in glass spheres, instrumenting a volume of several cubic kilometers. The acquisition electronics is housed inside the glass sphere performing the readout of the 31 PMTs of the Digital Optical Module. In the present work is presented the latest developments in the acquisition electronics including the increase in efficiency on the Power Board, the new developments on the Central Logic Board and the different reliability methods used in KM3NeT to make the acquisition electronics more reliable.

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Subcategory

Experimental Methods & Instrumentation

Primary authors: REAL, Diego; CALVO, David (IFIC); VAN BEVEREN, Vincent (NIKHEF); JANSWEIJER, Peter (NIKHEF); MUSICO, Paolo (INFN Genova); COLONGES, Stephane (APC); PELLEGRINI, Giuliano (INFN Bologna)

Presenter: REAL, Diego

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