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Calibration, performances and tests of the first detection unit of the KM3NeT neutrino telescope

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KM3NeT is the next generation neutrino telescope being installed in the Mediterranean Sea. The first detection unit of the telescope is ready for installation in the deep Mediterranean Sea in the summer of 2015. Eighteen digital optical modules have been mounted on a vertical string for the detection of the Cherenkov light emitted by muons induced by up-going neutrinos. This paper reports on the integration and calibration of the optical modules and of the full detection unit, as well as the future installation in the deep sea and the on-shore operation. The additional information carried out by the new type of photo-detection units when comparing to the old generation of optical modules is also discussed.

Collaboration

KM3NeT

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