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Calibration Methods and Tools for KM3NeT

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The detector of the KM3NeT telescope composed of several thousands digital optical modules is in the process of its realization in the Mediterranean Sea. Each optical module contains 31 3-inch pre-calibrated photomultipliers. Readout of the optical modules and other detector components is synchronized at the level of sub-nanoseconds. The position of the module is measured by acoustic piezo detectors inside the module and external acoustic emitters, installed on the bottom of the sea. The orientation of the module is obtained with an internal attitude and heading reference system chip. Detector calibration, i.e. timing, positioning and seawater properties, is overviewed in this talk and discussed in detail in this conference. Results of the procedure applied to the first detector unit ready for installation in the deep sea will be shown.

Primary author: KULIKOVSKIY, Vladimir (LNS)

Presenter: KULIKOVSKIY, Vladimir (LNS)

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