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Hydrophone characterization for the KM3NeT experiment

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With the KM3NeT experiment, which is presently under construction in the Mediterranean Sea, a new neutrino telescope will be installed to study both neutrino properties as well as their astrophysical sources. To do so, about 6000 optical modules will be installed in the abyss of the Mediterranean Sea, and are used to observe the Cherenkov radiation induced by energy particle interactions in the deep sea. As each module of the KM3NeT the telescope includes a hydrophone, KM3NeT will also provide a unique matrix of underwater hydrophone. We report on characterization measurements of the piezo-hydrophones in our laboratories. Results from these measurements will be used to assess the potential of KM3NeT in acoustic detection of neutrinos.

Authors: BUIS, Ernst-Jan (TNO); LAHMANN, R. (-)

Presenter: BUIS, Ernst-Jan (TNO)

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