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Towards the acoustic U. H. E. neutrino detection in the Mediterranean Sea

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A promising detection technique for EHE neutrinos is based on the identification of the acoustic signature of neutrino induced showers in water. In recent years the possibility of using hydrophones installed on the infrastructures of new Cherenkov telescopes, allowed start-up of R&D activities on acoustic detection. In the framework of the activities of the ANTARES, NEMO and KM3NeT, several small size experiments were run in order to measure acoustic noise in deep sea and test “neutrino-like” acoustic event detection. These activities have set milestones both for future HE neutrino detectors, for innovative deep sea technology and for Earth-Sea science.

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