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Results from the NEMO Phase1 experiment

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The NEMO collaboration, in order to validate the technologies for the future km³-scale underwater neutrino detector, realized a technological demonstrator, called “NEMO Phase-1”. In December 2006 it was deployed at the NEMO Test-Site (2000 m depth, 25 km offshore Catania). The demonstrator includes prototypes of the critical elements of the proposed km³-scale detector: a small-scale tower called mini-Tower and a Junction Box. Results from the NEMO mini-Tower are presented. Positions of the optical sensors in the mini-Tower are reconstructed through the acoustic position system and compared with the environmental sensors data. First atmospheric muon tracks have been reconstructed and compared with Montecarlo simulations.

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