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Results from the NEMO-Phase2 Tower in Capo Passero Site

In March 2013, the Nemo Phase-2 tower has been successfully installed at 100 km off-shore Capo Passero (Italy) and 3500 m depth, as part of the program for the construction of a cubic kilometer scale Cherenkov Neutrino detector in the Mediterranean Sea. This 8-floor Tower hosts 32 10-inch PMT's and is a prototype of the Towers that will be installed as part of the KM3NeT detector in Italy. Results from long term optical background measurements are presented. Collected data show very stable PMT's rates compatible with the contribution of 40K radiative decay to the Cherenkov photons background, with a small percentage of light bursts due to bioluminescence. All these features are a confirmation of the stability and good optical nature of the site. The atmospheric muons flux Depth-Intensity Relation, evaluated with PMT's data collected at 3500m depth, will also be shown.

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