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Instrumentation of A New Direction Sensitive Segmented Optical Module.

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An efficiency increase in the intermediate energy region for an underwater neutrino telescope could be an important development to gain a better sensitivity in the study of the physical processes concerning the deep universe and to have a useful tool for better detector calibration with atmospheric neutrinos. A new, direction sensitive, segmented optical module is under development in Genova: according to preliminary simulations, this kind of device can, together with a dedicated reconstruction strategy, improve by a significant factor the telescope sensitivity at low and intermediate energies. This optical module will feature a newly developed 10" Hamamatsu 4-anodic PMT coupled to a dedicated electronic to be integrated in the NEMO readout chain: the first directional OMs will be installed in the NEMO test site during the preliminary phase of the experiment.

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