30th International Cosmic Ray Conference



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The NEMO Status Report

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Abstract content

The NEMO (NEutrino Mediterranean Observatory) Project aims at the construction of a km3-scale neutrino telescope in the Mediterranean Sea. After extensive deep-sea surveys performed in several sites in the Mediterranean, an optimal installation site for the apparatus has been identified at a depth of 3500 m, about 80 km off Capo Passero, at the SE corner of Sicily, Italy. In this talk, we will illustrate the apparatus design and discuss its simulated capabilities. We will then show the results of our long- lasting R&D efforts toward the construction of the apparatus. Specifically the NEMO Project has recently completed the Phase 1, consisting in the construction, deployment and operation of a subsystem which includes all the key elements of the apparatus at a test site located at a depth of 2000 m, about 25 km off the coast of Catania. The system is presently fully operating and results will be presented in this talk. The collaboration activity is now dedicated to the instrumentation of the Capo Passero site including the deployment by the end of 2007 of a 100 km electro-optical cable connecting the site to the Porto Palo shore station and in 2008 the deployment of a full-size tower.

If this papers is presented for a collaboration, please specify the collaboration

NEMO Collaboration

Summary

Reference

Proceedings of the 30th International Cosmic Ray Conference; Rogelio Caballero, Juan Carlos D'Olivo, Gustavo Medina-Tanco, Lukas Nellen, Federico A. Sánchez, José F. Valdés-Galicia (eds.); Universidad Nacional Autónoma de México, Mexico City, Mexico, 2008; Vol. 5 (HE part 2), pages 1409-1412

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