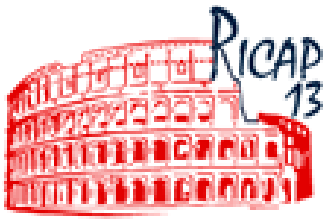

Contribution ID: **100** Type: **not specified**

The KM3NeT Neutrino Telescope: Status and Prospects

Thursday, 23 May 2013 12:40 (20 minutes)

The KM3NeT Collaboration aims to build, deploy and operate in the Mediterranean Sea a neutrino telescope with a volume of several cube kilometres. Using the experienced gained by the precursor projects, this telescope will complement IceCube, ensuring full coverage of the sky. Due to its location, it will have a privileged access to the Galactic centre and to a large fraction of the Galactic plane. With such a large detection volume, there are good prospects for the discovery of several neutrino sources, for instance, neutrinos from the supernova remnant RX J1713-3946 should be detectable with 5⊠ within five years if the gamma emission from this object is of purely hadronic origin. After the design and preparatory phases funded by the EU, the project is entering into its first construction phase. In this contribution, we will describe the technical and scientific aspects of KM3NeT and report on a few milestones recently achieved.

Primary author: Dr HERNANDEZ-REY, Juan-Jose (IFIC (CSIC-University of Valencia))

Presenter: Dr HERNANDEZ-REY, Juan-Jose (IFIC (CSIC-University of Valencia))

Session Classification: IV Plenary Session