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Abstract = Authors: Giulia De Bonis (representing the KM3NeT Consortium)

Title: KM3NeT – a cubic-kilometre-scale deep water neutrino telescope for the Mediterranean Sea

---Oral presentation requested---

Abstract (less than 10 lines):

The ANTARES, NEMO, and NESTOR groups have formed the KM3NeT consortium for a km³-scale neutrino telescope in the Northern hemisphere, to complement the sky coverage of IceCube and have unsurpassed angular resolution; 0.1deg @ 100 TeV. This challenging project will require the installation of thousands of photodetectors several kilometres below the sea and will study many astrophysical objects, including supernova remnants, active galactic nuclei, gamma-ray bursts and possibly dark matter. In April 2008 KM3NeT published its CDR. In late 2009 the TDR will detail the design and expected physics performance of the future detector. An EU-funded preparatory phase will lead through to the start of construction. We present the physics objectives and outline the technological aspects.