



Contribution ID: 10

Type: **oral**

KM3NeT - the next-generation neutrino telescope in the Mediterranean Sea

Friday, January 8, 2016 1:15 PM (45 minutes)

Building on the pioneering success of ANTARES, the next-generation deep-sea neutrino telescope KM3NeT will be constructed in the Mediterranean Sea. It will comprise two installations, one for neutrino astronomy with high-energy cosmic neutrons and one concentrating on neutrino physics using oscillations of the lower-energy neutrinos created in cosmic-ray interactions in the atmosphere. The presentation will discuss the technical design of KM3NeT; show initial preliminary results of the first detector unit deployed in December 2015; highlight selected results from the sensitivity studies for a cubic-kilometre installation; and summarise the next steps and future plans.

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