



Contribution ID: 75

Type: **not specified**

### **Km3Net Italia Seafloor Network**

*Tuesday, 15 September 2015 14:20 (20 minutes)*

The KM3NeT European project aims to construct a large volume underwater neutrino telescope in the depths of the Mediterranean Sea. INFN and KM3NeT collaboration, thanks to a dedicated funding of 21.000.000 (PON 2007-2013), are committed to building and deploying the Phase 1 of the telescope, composed of a network of detection units: 8 towers, equipped with single PMT optical modules, and 24 strings, equipped with multi-PMT optical modules.

All the towers and strings are connected to the main electro optical cable by using a network of junction boxes and electro optical interlink cables. Each junction box is a passive node able to provide all the necessary power to the detection units and to guarantee the data transmission between the detector and the on-shore control station.

The Km3NeT Italia project foresees the realization and installation of the first part of the deep sea network, composed of three junction boxes, one for the towers and two for the strings.

In July 2015, two junction boxes have been deployed and connected to the new cable termination frame installed during the same sea campaign. The third and last one will be installed in November 2015.

The status of the deep sea network are presented in this contribution together with technical details of the project.

**Primary author:** PAPAleo, Riccardo (INFN LNS)

**Presenter:** PAPAleo, Riccardo (INFN LNS)

**Session Classification:** Parallel Session I