



Contribution ID: 278

Type: not specified

The Pacific Ocean Neutrino Experiment - Development of the first detector line

Monday, 11 September 2023 16:30 (15 minutes)

The Pacific Ocean Neutrino Experiment is a new neutrino telescope in the Pacific Ocean that is planned to consist of at least 70 instrumented mooring lines and span more than one cubic kilometre. Using the existing underwater infrastructure of Ocean Networks Canada, P-ONE aims to detect neutrinos with energies ranging from TeV to PeV, and will complement the sky coverage of both IceCube and KM3NeT.

Following two successful pathfinder missions, the P-ONE collaboration is now developing the first mooring line of the full detector. The 1000 m long line will hold 20 optical and calibration modules along a novel underwater cable design, and is planned to be deployed in 2024/25.

The presentation will show the design and current status of the first P-ONE line.

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Session Classification: NUS: Neutrinos

Track Classification: Neutrinos