Canadian Association of Physicists

Association canadienne des physiciens et physiciennes

Contribution ID: **3866** Type: **Invited Speaker / Conférencier(ère) invité(e)**

(I) The P-ONE neutrino experiment and prototype

Tuesday 20 June 2023 10:45 (30 minutes)

High energy neutrinos from cosmic sources are one of the most exciting subjects for study in particle physics. They allow access to energy ranges otherwise unobtainable and since neutrinos point back to their origin, they allow deep insights into the sources of the highest energy processes in the universe.
The P-ONE collaboration is aiming to construct a large scale ocean based neutrino observatory in the Canadian Pacific Ocean to provide new capabilities and added active volume to the existing, highly successful observatories around the world. We will report on the progress of designing and constructing a prototype sensor array for deployment in the ocean in the coming years.

Keyword-1

Neutrino

Keyword-2

Future detectors

Keyword-3

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Track Classification: Symposia Day (Tues. June 20) / Journée de symposiums (mardi, le 20 juin): Symposia Day (PPD - PPD) - Discovering New Paths to Discovery: New Technologies and Methods to Uncover BSM Physics | Découvrir de nouvelles voies vers la découverte : Nouvelles technologies et méthodes pour découvrir la physique au-delà du modèle standard