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The P-One ocean-based neutrino experiment - status and prospects

Thursday 19 October 2023 13:30 (30 minutes)

The P-ONE experiment is a planned cubic-kilometer-scale neutrino telescope to be operated in the Pacific Ocean off the west coast of Vancouver Island. P-ONE will utilize infrastructure from the Oceans Network Canada (ONC) Neptune undersea cabled network to host strings of underwater optical detectors to detect light from high energy neutrino interactions in the deep ocean waters of the Cascadia basin. This presentation will summarize the physics goals, the detector design, and the status of this project with a focus on the challenges of detector controls, communication, triggering and data flow.

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