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The Pacific Ocean Neutrino Experiment

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In recent years, the IceCube Neutrino Observatory has started to unravel the high-energy neutrino sky. The discoveries of TXS0506+056 and NGC1068 as neutrino emitters and neutrino emission from the galactic plane hint at a zoo of possible neutrino sources. However, open questions regarding the production mechanisms remain that require a new generation of neutrino telescopes to answer.
The Pacific Ocean Neutrino Experiment (P-ONE) is a planned, next-generation neutrino telescope off the coast of Vancouver Island, where it will leverage deep-sea infrastructure provided by Ocean Networks Canada (ONC). Once completed, P-ONE aims for greatly improved resolutions compared to IceCube, complementing other next-generation telescopes, such as KM3NeT. The first detector line is currently under construction and targeted for deployment in 2024. In this contribution, I will present status of the first detector line, and prospects for the full detector array.

Collaboration / Activity

P-ONE

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