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The Pacific Ocean Neutrino Experiment (P-ONE)

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The Pacific Ocean Neutrino Experiment (P-ONE) Collaboration is currently developing a new cubic-kilometre neutrino telescope in the Northern Pacific Ocean. With a focus on detecting TeV-PeV high-energy astrophysical neutrinos, P-ONE will expand the sky coverage of other neutrino telescopes like IceCube, KM3NeT, and Baikal-GVD. Its unique combination of water properties and detector technology make P-ONE especially well-suited for detecting the characteristic double-cascade signal of astrophysical tau neutrinos. We present the current status and show first results from a tau neutrino sensitivity study.

Name of collaboration or list of co-authors

P-ONE

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