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A NOBL Pursuit - Neutrino Ocean Bottom Laboratory

Understanding the composition and homogeneity of the Earth's core-mantle boundary (CMB) is crucial to understanding the radiogenic heat of the Earth and the science of planetary formation. This talk discusses our work at the University of Hawai'i (UH) in collaboration with Tohoku University on an neutrino ocean bottom detector (OBD) with the goal of observing the CMD.

I will specifically focus on design constraints and ideas, pertaining to our risk assessment white-paper and on-going work with Station Aloha, UH's ocean bottom experiment site 100km north of Oahu, 5 km below the surface.

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