



# PHYSICS AND ASTRONOMY COLLOQUIUM

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MSU

**“Neutrinos: the unknown, the unexpected and the future”**

## Abstract

“Neutrinos are a tiny subatomic particle with surprising properties under active study. In particular, neutrinos oscillate, that is, they convert from one type of neutrino to another, is a surprising phenomenon under active study. Many open questions surrounding neutrino oscillation exist, and the answers are important to the fields of astrophysics, cosmology and particle physics. The Tokai-to-Kamioka (T2K) neutrino oscillation experiment sends a beam of muon flavor neutrinos or antineutrinos 295km across Japan. This colloquium will discuss the state of the field of neutrino oscillation physics, recent results from T2K, and the bright future and capabilities of future accelerator based neutrino experiments.”

Wednesday, September 29, 2021  
3:30 p.m.

via Zoom: <https://uvic.zoom.us/j/81377096640>