



UNIVERSIDAD TECNICA
FEDERICO SANTA MARIA

Departamento de Física

Seminario Grupo de Física de Altas Energías

“Neutrino oscillations and its legacy for new physics”

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Abstract

According to nature's current description, the basic building blocks of matter come in as three nearly identical copies of elementary quarks and leptons. They have identical properties under strong, weak, and electromagnetic interactions, but differ in mass. Neutrino experiments in the last decades have brought neutrinos to the center of particle physics. After a drone-view summary of the status of precision neutrino physics, I discuss some of the insights oscillations bring into basic drawbacks of the Standard Model, such as the origin of neutrino mass, the so-called flavour problem and cosmological dark matter.

Viernes 27 de Septiembre de 2024 a las 14:00 horas de Chile.

[https://reuna.zoom.us/j/87161425888?
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ID de reunión: 871 61425888
Código de acceso 100126