



SEMINARIO

GRUPO FÍSICA DE ALTAS ENERGÍAS

"Phenomenology of flavor symmetric scoto-seesaw mechanism"

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Abstract

We present a novel hybrid scoto-seesaw mechanism incorporating A_4 non-Abelian discrete flavor symmetry, explaining light neutrino masses through both tree-level type-I seesaw and one-loop scotogenic mechanisms. This unique construction accommodates viable dark matter candidates, correlating with observed relic abundance. With a single right-handed neutrino, the framework predicts specific features such as the normal ordering of light neutrino masses, a massless lightest neutrino, and a single relevant CP Majorana phase. The model offers insights into dark matter phenomenology and collider studies, including predictions for diphoton decay channels and testable signals for various lepton decays

MIERCOLES 15 de Mayo de 2024
a las 14:30 hrs. (Chile Continental)

Join Zoom Meeting

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