

Contribution ID: **204** Type: **Poster**

νSMEFT Contributions to Double-Higgs Production

In this work, we investigate double-Higgs production in proton-proton collisions within the framework of the Neutrino Standard Model Effective Field Theory (νSMEFT), focusing on processes involving at least one heavy neutrino in the final state. We study the contributions of dimension-six effective operators with right-handed neutrinos to these production channels and
their dependence on the heavy neutrino mass and the parameters of the effective theory.
Our analysis aims to explore the phenomenological implications of these interactions and assess the potential of double-Higgs production as a probe of new physics associated with the neutrino sector.

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Session Classification: Posters & Empanadas

Track Classification: Beyond the Standard Model