

Probing Radiative Neutrino Masses and Extra Fermions at the Future Circular Collider

Wednesday, 11 October 2023 17:30 (20 minutes)

In this talk we explore the interpretation of neutrino masses as radiatively generated, leveraging the forthcoming precision at the Future Circular Collider. We highlight the discernibility of Higgs-strahlung signals and radiative corrections as key tools for revealing New Physics. In particular, we consider the role of extra fermions in altering the signature proper of the Inert Doublet Model. We illustrate the required theoretical effort and detail the renormalization procedure adopted. The case of the Scotogenic model is investigated, emphasizing the implications of both normal and inverted hierarchies as well as the interplay with flavor violating observables.

Primary author: MARZO, Carlo (NICBP-Tallinn)

Presenter: MARZO, Carlo (NICBP-Tallinn)

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