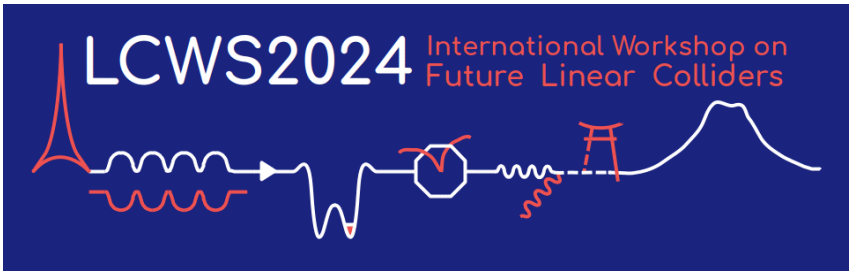

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New renormalization scheme in extended Higgs sectors for Higgs precision measurements

Wednesday 10 July 2024 10:10 (20 minutes)

We propose a new renormalization scheme in extended Higgs sectors for the coming new era of the Higgs precise measurements at future lepton colliders. In this new scheme, we use a precisely measured value of the discovered Higgs boson coupling, e.g., hZZ, as an input of the renormalization condition. We demonstrate how the other Higgs boson couplings (e.g., hWW) can be predicted. in this new renormalization scheme in the 2 Higgs doublet model as a simple but important example.

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