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Searching for new physics in Higgs to four leptons

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In this talk, I will describe how kinematic distributions in the Higgs to four lepton channel can be used to probe the Standard Model (SM) as well as new physics scenarios. Higher order electroweak corrections make this channel sensitive to anomalous tensor structures in Higgs couplings, making this one of the best direct probes of several types of deviations from the SM including CP violation in the top Yukawa coupling. I will explore the reach of the LHC and future colliders to these scenarios.

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