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Indications for a 150 GeV Triplet Higgs at the LHC

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There have been numerous attempts to ascribe crucial roles to vector-like leptons in alleviating various shortcomings of the Standard Model through their Yukawa interactions with the Standard Model Higgs and leptons. These interactions can lead to sizable di-Higgs production at lepton colliders, otherwise small in the Standard Model, while remaining consistent with electroweak precision data, thereby providing a potential smoking-gun signature of the vector-like leptons.

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