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Interplay between an SFOEWPT and Higgs pair production in a 2HDM-EFT

By extending the 2-Higgs Doublet Model (2HDM) by scalar dimension-6 effective field theory (EFT) operators we investigate to which extent the addition of these higher-dimensional operators can promote the electroweak phase transition to a strong first-order electroweak phase transition (SFOEWPT). We analyze the interplay between the choice of Wilson coefficients inducing an SFOEWPT and the generated size of the LHC Higgs pair production cross section in this 2HDM-EFT.

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