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FOEWPT, THC_s and GW_s in the 2HDM

Friday 21 July 2023 14:00 (20 minutes)

We discuss the interplay of First Order Electroweak Phase Transitions (FOEWPT), Triple Higgs Couplings (THCs) and Gravitational Waves (GWs) in the 2 Higgs Doublet Model (2HDM). We identify six thermal histories in the 2HDM, out of which one leads to a FOEWPT. We discuss the implications for GWs and the measurement of THCs at the HL-LHC and future e^+e^- colliders, such as the ILC.

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