



Contribution ID: 124

Type: **Parallel talks**

FOEWPT, THCs and GWs in the 2HDM

Friday, July 21, 2023 2:00 PM (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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Session Classification: Particle cosmology: Theory and Experiment

Track Classification: Particle cosmology: Theory and Experiment