

The 2024 Chengdu Symposium on Particle Physics and Cosmology: Phase Transitions, Dark Matter and Experimental Probes (CPCS 2024)

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Was There an Electroweak Phase Transition

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Determining the thermal history of electroweak symmetry breaking is a forefront challenge for particle physics and cosmology. The occurrence of a first order electroweak phase transition (EWPT) would have profound implications for explaining the origin of the cosmic baryon asymmetry and generation of primordial gravitational radiation. I discuss recent theoretical developments in assessing the possibility of an EWPT in beyond Standard Model theories and highlight the corresponding phenomenological implications.

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