

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

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Nano-hertz gravitational waves and cosmic phase transition

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Will talk about cosmic phase transition and nano-hertz gravitational waves is given. Two examples of new physics models are illustrated, which respectively predict a supercool first-order electroweak phase transition and a first-order phase transition in the dark sector at MeV scale. Both models are shown to be able to explain the reported evidences of nano-hertz gravitational waves.

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