Contribution ID: **31** Type: **Poster**

Electro-Weak Phase Transitions in a Dark Matter Scenario

Wednesday, 19 June 2024 16:59 (1 minute)

This research investigates the consequences of first-order phase transitions in the early Universe, specifically in extensions of the Standard Model that include dark matter. The study focuses on a scenario based on a dark SU(2) group and provides a case study for assessing the sensitivity of future gravitational wave signals from phase transitions in connection with the phenomenology of dark matter. To ensure consistency with experimental results, constraints are applied to the parameter space of the model.

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Session Classification: Poster session with snacks and coffee