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JOHANNES GUTENBERG UNIVERSITÄT MAINZ

THEP Journal Club

Nov. 17, 2017 at 12:30 p.m.
Minkowski Raum, Staudinger Weg 7, 05-119

Pizza & Physics at Lunchtime

Note: Masters Colloquium, THEP Social Room

Lukas Mittnacht
JGU Mainz

New Mechanisms for Dark Matter Production in the Early Universe

The Vev-Flipflop is a novel model framework, which introduces a new scalar coupled to the SM via a Higgs portal. During its thermal evolution the universe undergoes different phase transitions. In one of the phases, the new scalar has a vacuum expectation value. This vev can be used to bring the DM and the SM in contact only during intermediate times and have a significant impact on the DM relic density.

This presentation serves as my Master's Colloquium, I will present a brief introduction to the Vev-Flipflop and then discuss three different models that make use of its features.

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