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Heavy warm dark matter from supercooling

mercredi 1 juin 2022 16:30 (20 minutes)

We point out that dark matter which is produced non-adiabatically in a supercooled phase transition receives a boost in velocity which leads to long free-streaming lengths. We find that this could be observed via the suppressed matter power spectrum for dark ma er masses around ~ 10^8 – 10^9 GeV. We thus offer novel physics goals for galaxy surveys, Lyman-α, and weak lensing observations, and connect these to the gravitational waves from such phase transitions.

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Classification de Session: Parallel session 2