

Dark Tools



Contribution ID: 61

Type: **not specified**

Freeze-in with low reheating temperature

Thursday 19 June 2025 14:30 (15 minutes)

The freeze-in mechanism is an alternative mechanism for dark matter production to standard thermal freeze-out. Freeze-in computations are typically performed assuming a very high initial (“reheating”) temperature. However, this temperature is poorly constrained and can take relatively small values. I will discuss dark matter freeze-in in such a scenario and highlight how dark matter production is impacted compared with the “infinite” reheating temperature case.

Author: REGGIO, Thomas (LPCA)

Presenter: REGGIO, Thomas (LPCA)

Session Classification: Research talks