



Contribution ID: 36

Tipo: **not specified**

Analysis of the mechanisms of dark matter production in the early universe

martes, 6 de diciembre de 2022 16:30 (15 minutos)

We work on three specific production models. The first and the most recognized is the Weakly Interacting Massive Particles or WIMP model, which we will work on by applying the Boltzmann equations to study the behavior of WIMP relics in the thermal bath during the first moments of the universe. This analysis is done by finding an approximate solution analytically and numerically using Python programming. We then adapt the calculations to characterize the Feebly Interacting Massive Particles or FIMP and Strongly Interacting Massive Particles or SIMP mechanisms.

Presentador: ESCORCIA, Mateo (Universidad del Atlántico)