



Contribution ID: 155

Type: Plenary/Parallel talk

Gauged B-L interacting sterile neutrino dark matter revisited

Monday 22 August 2022 16:10 (20 minutes)

We re-examine sterile neutrino dark matter in gauged $U(1)_{B-L}$ model. Improvements have been made by proper inclusion of all relevant processes and tracing the evolution of the number densities of sterile neutrino and extra neutral gauge boson Z' . The energy density of Z' turns out to be much greater than in earlier studies. We revise the space of the viable parameters .

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Session Classification: Parallel Session Main Cupola: DM

Track Classification: Dark matter, neutrinos & astroparticle physics