



Contribution ID: 92

Type: Talk

First stars and galaxies in fuzzy dark matter universe

Thursday, 19 September 2024 10:45 (20 minutes)

Ultra-light axions is one of the most widely considered models of dark matter. In my talk, I will focus on the formation of cosmic web, first structures, stars and galaxies in a fuzzy dark matter universe. We model star and galaxy formation using a hydrodynamical code AREPO coupled to the ultra-light dark matter component solved using Schrodinger-Poisson code. We explore properties of the first objects and compare the results to the control CDM case.

Primary author: Prof. FIALKOV, Anastasia (IoA, Cambridge University)Presenter: Prof. FIALKOV, Anastasia (IoA, Cambridge University)Session Classification: Morning 4