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Astrophysical Probes of Dark Matter

Monday 21 January 2019 14:45 (45 minutes)

In this talk, I will introduce a novel model to explain the small structure observations of galaxies. This model contains ultralight bosonic fields and heavy fermionic particles as dark matter. The second part of talk will revisit the idea of femtolensing of gamma ray bursts, which has been put forward as an exciting possibility to probe exotic astrophysical objects with masses below 10^{-13} solar masses such as small primordial black holes or ultra-compact dark matter minihalos.

Presenter: Dr XUE, Wei (CERN)

Session Classification: dark matter