

## **Probing light dark matter particles with astrophysical experiments**

*Monday, 30 August 2021 17:10 (15)*

Strong bounds from direct detection experiment put stringent limit on the dark matter mass which forces us to go beyond WIMP model of dark matter. In recent years the light mass dark matter particles gain lots of attention among the particle physicists. In this talk I will discuss about light gauge bosons motivated from U(1) extension of standard model and axions which can be a possible dark matter candidates and its detection in several astrophysical experiments.

### **Reference to paper (DOI or arXiv)**

Phys.Rev.D 100 (2019) 12, 123023, Eur.Phys.J.C 81 (2021) 4, 286, Phys.Rev.D 101 (2020) 8, 083007, arXiv: 2104.09772

### **Your gender (free text)**

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