

Dark Matter and Stars: Multi-Messenger Probes of Dark Matter and Modified Gravity

Contribution ID: 86

Type: **not specified**

Neutron Stars as Dark Matter Laboratories in the Multi-messenger Era

Thursday, 4 May 2023 09:00 (40 minutes)

I will describe our current understanding of neutron stars and identify observables that could reveal new physics beyond the standard model. In the next decade, multi-messenger observations of neutron stars, neutron star mergers, and core-collapse supernovae will provide new insights into neutron stars' structure, dynamics, and thermal evolution. I will outline how this can help discover or constrain the particle nature of dark matter.

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