## 2019 Meeting of the Division of Particles & Fields of the American Physical Society



Contribution ID: 143

Type: Oral Presentation

## **Exotic Compact Objects in a Dissipative Dark Sector**

Monday 29 July 2019 17:08 (17 minutes)

We show how a simple dissipative dark sector can form exotic compact objects that vary in size from a few to millions of solar masses. These exotic compact objects may be detected and their properties measured at new high-precision astronomical observatories, giving insight into the particle nature of the dark sector without the requirement of non-gravitational interactions with the visible sector.

**Authors:** CHANG, Jae Hyeok (YITP, Stony Brook); ESSIG, Rouven; EGANA-UGRINOVIC, Daniel (CN Yang Institute, Stony Brook University)

Presenter: CHANG, Jae Hyeok (YITP, Stony Brook)

Session Classification: Dark Matter

Track Classification: Dark Matter