



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