

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

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# Fermion-Boson-Stars - Neutron Stars Admixed with Ultra-Light Dark Matter

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I will give an introduction to Fermion-Boson-Stars, Neutron Stars with an additional massive, self-interacting complex scalar field, which interact only gravitationally. I explore its history, the mass-radius-relations, tidal deformability, and compare to observations from HESS, NICER, and LIGO.

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