## **Nucleosynthesis and Evolution of Neutron Stars**



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## **Compact Objects in Modified Gravity**

Tuesday, January 28, 2025 4:40 PM (1h 20m)

Compact objects are an interdisciplinary research subject in high-energy physics, and studying compact objects has become one of the significant concerns in modified gravity theory. Modifications of gravitational theory predict the modified TOV equation, and observations of compact objects allow us to test the theory in a strong and non-perturbative gravitational field. This talk will discuss the mass-radius relation of compact objects and the new physics predicted in F(R) gravity theory. We will also consider the importance of observables other than the mass-radius relation.

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Session Classification: Poster Presentation