

Stephan Wystub (Frankfurt), "Constraining exotic compact stars composed of bosonic and fermionic dark matter with gravitational wave events"

Friday 26 November 2021 16:00 (30 minutes)

We investigate neutron star-black hole (NS-BH) merger candidates as a test for compact exotic objects. Using the events GW190814, GW200105 and GW200115 measured by the LIGO-Virgo collaboration, which represent a broad profile of the masses in the NS mass spectrum, we demonstrate the constraining power for the parameter spaces of compact stars consisting of dark matter for future measurements.

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