Contribution ID: **274** Type: **Oral**

Probing QCD physics with current and future gravitational-wave observations

Tuesday 20 August 2024 15:00 (30 minutes)

Gravitational waves allow us to probe the interiors of both cold and hot neutron stars where potentially exotic states of matter exist. I will review current efforts to observe gravitational waves from merging neutron stars by the LIGO-Virgo-KAGRA collaborations. I will also provide an overview of what this field holds in the next decade with current gravitational-wave observatories, and what is being forecast for the next-generation of observatories slated for operation in the 2030s.

Primary author: LASKY, Paul

Presenter: LASKY, Paul

Session Classification: Nuclear and Astro-particle Physics

Track Classification: F: Nuclear and Astro-Particle Physics