

The Structure and Signals of Neutron Stars, from Birth to Death



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Extracting information on the neutron star equation of state via gravitational waves from binary inspirals

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Binary neutron stars and neutron star-black hole systems are some of the most promising sources for gravitational-wave observations with Advanced terrestrial interferometer detectors. For such systems, the matter contributes to the spacetime dynamics, leaving an imprint on the gravitational radiation from the system. I will discuss how we can understand and model this imprint, so that we can use it to constrain our understanding of the properties of dense matter. I will also outline aspects requiring further work.

Author: Dr HINDERER, Tanja (Caltech, USA)

Presenter: Dr HINDERER, Tanja (Caltech, USA)

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