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The hadron-quark phase transition and neutron star mergers

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The first unambiguous observation of a neutron star merger in 2017 has highlighted the prospect to learn about incompletely known properties of neutron stars and high-density matter. We will discuss the impact of the hadron-quark phase transition on observables of neutron star mergers. In turn, future observations of neutron star merger events can be employed to understand whether or not the hadron-quark phase transition occurs in neutron stars. In particular, it will be possible to constrain the onset density of the phase transition.

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