Contribution ID: **9** Type: **not specified**

Strong phase transitions in neutron star mergers

The first detection of gravitational waves form a neutron star merger some years ago has highlighted the prospects of inferring properties of high-density matter from these spectacular astrophysical events. In particular, the postmerger phase represents an environment of hot and dense matter implying that the different observables from this phase carry valuable information. We will provide an overview on neutron star mergers and discuss implications from current and future observations for better understanding the properties of high-denisty matter including the possibility of a phase transition to deconfined quark matter.

Primary author: BAUSWEIN, Andreas (GSI Helmholtzzentrum fuer Schwerionenforschung)

Presenter: BAUSWEIN, Andreas (GSI Helmholtzzentrum fuer Schwerionenforschung)

Session Classification: Lectures