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Binary Neutron Star systems are the most interesting source of gravitational wave signals and the associate signal will carry important information about the equation of state (EOS) of matter at high density. The main information on the EOS will be seen on the postmerger signal. (Not detected in the case for GW170817)

In this talks I will discuss the various steps that one need to perform, starting from the EOS of matter at high density, to obtained the properties of the Gravitational Wave signal emitted during the merger and especially on the post-merger.

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