

# BINARY NEUTRON STAR MERGERS AS SHORT GAMMA-RAY BURST CENTRAL ENGINES

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## **Abstract**

The first coincident detection of a short gamma-ray burst (GRB 170817A) and the gravitational wave signal from a binary neutron star merger (GW170817) proved the long-standing hypothesis connecting the two phenomena. In this talk, I will discuss the interpretation of this crucial event in a multimessenger context and the implications for our understanding of how short gamma-ray bursts are produced, also pointing out the key open questions and the important role played by numerical simulations.