Contribution ID: 100

Type: not specified

Nucleosynthesis with Quark nugget

Wednesday, October 9, 2024 12:02 PM (12 minutes)

During the binary quark star merger, segment quark nuggets could be ripped out. The emission of neutrons and protons from quark nugget makes the environment differ from the standard binary neutron star merger. When temperature drops below 1 MeV, the nucleosynthesis path will be different compare with the well-know r-process nucleosynthesis in binary neutron star merger. here in this talk, I will present the preliminary results on the nucleosynthesis that include the quark nuggets evaporation and some distinguishable results from the r-process yields.

Presenter: LUO, Yudong (Peking University)