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Gravitational waves from binary-neutron-star mergers and the equation of state

Thursday, November 7, 2024 9:00 AM (1 hour)

Gravitational waves from binary-neutron-star mergers enable us to observe accurately the orbital evolution and postmerger dynamics. On the one hand, the orbital evolution tells us about intermediate-density matter characterizing premerger neutron stars. On the other hand, postmerger dynamics may reflect how hadrons transition to quarks at high density. In this talk, I will discuss the current status and future prospects of binary-neutron-star mergers, focusing primarily on our recent investigations on hadron-quark crossover.

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