Quasi-local energy and Oppenheimer-Snyder collapse

Thursday 24 September 2020 10:35 (25 minutes)

In this talk, we investigate the gravitational collapse of the Oppenheimer-Snyder dust cloud with spatially constant matter density from a quasi-local perspective. Given a closed two-surface within the star, three versions of the quasi-local energy are discussed.
This talk is based on a recent paper with Xiaokai He [Class. Quantum Grav. 37(2020)185016, arXiv:2005.04659].

Primary author: XIE, Naqing (Fudan University)

Presenter: XIE, Naqing (Fudan University)

Session Classification: Mathematical and Numerical Relativity