第24回
RESCEU コロキウム

東京大学大学院理学系研究科 附属ビッグバン宇宙国際研究センター

日　時:　2018 年 5 月 17 日(木) 13:30 ～14:30

場　所:　理学部 4 号館 1 階ピロティ RESCEU セミナー室

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Gravitational-wave templates for inspiralling binary neutron stars

On 17th of August 2017, three ground-based gravitational-wave detectors, advanced LIGO and advanced Virgo, reported the first detection of gravitational waves from a binary neutron star merger. Gravitational waves from binary neutron stars contain rich information of the neutron stars, in particular, of the equation of state through so-called the tidal deformability. To extract the tidal deformability of neutron stars from the observed gravitational-wave data, an accurate theoretical waveform template is crucial. In this talk, I will present our recent result developing a model for frequency-domain gravitational waveforms from inspiraling binary neutron stars based on the latest numerical-relativity simulations and analytic models, and discuss the measurability of the tidal deformability from gravitational waves from binary neutron stars in future observation.

興味をお持ちの方の聴講を歓迎致します。お茶とお菓子を用意しております。