

第20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1月18日(木) 16:00 ~ 17:00

場 所: 理学部4号館1階ピロティ RESCEU セミナー室

講 師: Mark Hindmarsh 氏 (University of Sussex)

Gravitational waves from phase transitions in the early Universe

About 10 picoseconds after the beginning of the Universe, the Higgs field turned on. In extensions of the Standard Model of particle physics, this could have been a first order phase transition, with the spontaneously nucleated bubbles of the Higgs phase expanding and colliding at relativistic speeds. I will discuss how sound waves from colliding bubbles generate gravitational radiation, prospects for observing the radiation at the future space-based gravitational wave detector LISA, and outline how LISA complements the LHC as a probe of physics beyond the Standard Model.

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。