

第11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: 2016年4月21日(木) 14:00 ~15:00

場 所: 理学部4号館1階ピロティ RESCEU セミナー室

講 師: Surhud More 氏 (Kavli IPMU)

Detection of halo assembly bias and the splashback radius of galaxy clusters

Dark matter halos are the basic building blocks that form the large scale structure in the Universe. I will present an overview of our knowledge about the internal structure of these halos, their large scale distribution, and the connection between the two, based on numerical simulations of cold dark matter in the concordance cosmological model. I will talk about some of the recent theoretical developments regarding the physical boundaries of dark matter halos, and their connection to the assembly history of these halos. I will present observational evidence supporting these new developments. In particular, I will highlight the recent detections of halo assembly bias on galaxy cluster scales, and the edges of galaxy clusters, and how these advances will help us to further our understanding of galaxy formation and the challenges they present to cosmological inferences.

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。