

Theoretical Physics Seminar

Department of Fundamental Research
National Centre for Nuclear Research

https://www.gotomeet.me/NCBJmeetings/bp2_seminar
(chrome browser required)

Wednesday, 03/06/2020, 12:15

Dr Jan Ostrowski

BP2, NCBJ, Warsaw

On the most massive objects in the Universe

Abstract:

Galaxy clusters and super-clusters can be used to test cosmological models, in particular big enough objects at low redshifts would be a strong indication of the failure of Concordance Model. It is for this reason among others why precise predictions on how many gravitationally bound objects are we expecting to observe, are of great importance. In my presentation I will sketch a theoretical pipe-line leading from the early Universe initial conditions, via the general relativistic model of evolution to the expected number of compact objects as a function of their mass and redshift. Several of the so-obtained results will be put in the context of our current observational knowledge.

T. Altinoluk, M. Kowal, W. Piechocki, J. Skalski