

Seminarium Szkoły Doktorskiej NCBJ

Thursday, 9 June, 9:00

<https://www.gotomeet.me/NCBJmeetings/phd-seminar>

Speaker:

Szymon Nakoneczny (Szkoła Doktorska NCBJ)

Title:

Cosmology based on the radio galaxies from LOFAR LoTSS DR2 and CMB maps from Planck

Abstract:

During my talk, I will show an ongoing cosmological project within the LOFAR collaboration. Our main goal is to constrain cosmological parameters based on the auto and cross-correlations between radio galaxies from the LoTSS DR2 and CMB lensing and temperature maps from Planck. I will give an introduction to current state-of-the-art cosmological studies, describe methodology required to study cosmology from the large scale structure observations, and show the preliminary constraints of the bias function and redshift distribution, as well as first detection of the Integrated Sachs-Wolfe effect in the LOFAR data.