

Seminarium Szkoły Doktorskiej NCBJ

Thursday, 28 November, 9:15

room 207, Pasteura 7

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

https://events.ncbj.gov.pl/e/Seminar_23_24

Speaker:

Kishan Deka (Szkoła Doktorska NCBJ)

Title:

Galactic foreground bias in CMB lensing reconstruction

Abstract:

Weak gravitational lensing remaps the primordial anisotropies in the Cosmic Microwave Background (CMB), contaminating the measurements of cosmological parameters. Estimating the lensing potential field and delensing the CMB maps of high sensitivity experiments are crucial for improving cosmological measurements. However, one of the main obstacles for these tasks is the presence of foreground emissions from our own Galaxy. In this talk, I will discuss about CMB weak lensing reconstruction methods and the impact of galactic foreground emissions. I will present my results on galactic foreground bias in the context of upcoming CMB Stage-4 survey.