

Seminarium Studium Doktoranckiego NCBJ
Thursday, 16 April, 9:00

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

Speaker:

Artur Miroszewski (Studium Doktoranckie NCBJ)

Title:

Quantum effects in the very early Universe

Abstract:

It is believed that the quantum effects are ought to be significant in the very early cosmology. In my presentation I will discuss importance of the early universe studies and introduce a cosmological model which undergoes quantum induced singularity avoidance scenario - Big Bounce. Apart from the background degrees of freedom, tensorial perturbations will be introduced. The presented model embodies naturally an amplification mechanism for perturbations during Big Bounce, leading to generation of primordial gravitational waves, which potentially could be observed in the "near" future.