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Hunting primordial CMB B-modes with future experiments

Upcoming experiments of the Cosmic Microwave Background (CMB) are targeting the detection of primordial CMB polarization B-modes to shed light on the physics of the early Universe. However, such a detection requires exquisite control of Galactic foreground contamination, thus pointing to the need for the application of robust component separation techniques. In this talk, after an introduction to the topic, I will present the CMB component separation challenge and some optimizations of existing pipelines, which promises to enhance foreground subtraction in the reconstructed CMB signal of future experiments.

Serdecznie zapraszam,
Kishan Deka, on behalf of the SOC