**Seminarium Astrofizyczne**
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ul. Pasteura 7, sala 404

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**Alessandro Carones**

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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