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Type: **Plenary Presentation (by invitation only)**

Polarization aspects of CMB

Wednesday, 20 October 2021 18:30 (45 minutes)

I will present some aspects of the measurements of the polarization of the Cosmological Microwave Background (CMB). In particular, I will detail what we have deduced about the cosmological parameters of the LambdaCDM concordance model and its extensions through the observation of the CMB polarization with the Planck satellite. I will also discuss future projects that aim to increase the precision of these measurements. Some of them are under construction or design, either on the ground or in space: the Simons observatory, CMB-S4 and LiteBIRD. For these, I will focus mainly on the predictions of the B-modes observation, with emphasis on the expected results on our understanding of fundamental physics, and in particular on the physics of the primordial universe, and the mass of neutrinos.

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