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Impact of HWP systematics on the measurement of cosmic birefringence from CMB polarization

Tuesday, 28 March 2023 16:00 (40 minutes)

Employing an half-wave plate (HWP) as polarization modulator is a promising strategy to mitigate systematics in CMB experiments. However, if not calibrated well enough or accounted for correctly in the analysis, its non-idealities represent an additional source of systematics that can impact the science extracted from CMB. In this talk, I will show how their effect on the observed angular power spectra is partially degenerate with cosmic birefringence, according to both simulations and analytical computations.

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