

Detecting transverse velocities with the moving lens effect

Tuesday, 7 May 2024 09:00 (10 minutes)

The advent of higher resolution and improved sensitivity CMB experiments in conjunction with deeper and wider galaxy surveys facilitates the exploration of cross correlations to detect weak signals. Among these, there is one of the two signals caused by the transverse velocity of halos: the moving lens effect. I will review the manifestation of the signal and summarize the perspective of detection, given our current knowledge of astrophysical foregrounds and survey specifications. I'll describe which competing effects are affecting the measurement, and discuss methodologies and strategies to improve the expected detection.

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Session Classification: Session 5