ID de Contribution: 1 Type: Non spécifié

Resolving the baryonic uncertainty in cosmic shear with the kinematic Sunyaev-Zel'dovich effect

mercredi 29 octobre 2025 17:20 (40 minutes)

Galaxy lensing measurements from surveys like Euclid and the Rubin and Roman observatories contain a wealth of information on the nature of dark matter, dark energy and the neutrino masses. However, on the smallest scales that contain most of the statistical power, our ability to extract this information is limited by our knowledge of the distribution of baryons around galaxy halos. I will present ways to use the cosmic microwave background to localize the baryons, via the kinematic and thermal Sunyaev-Zel'dovich effects, in order to alleviate the baryonic uncertainty and make the most from galaxy lensing datasets.

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