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SZ science with next generation CMB maps

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With high resolution and low noise multifrequency CMB maps, combined with upcoming data from galaxy surveys, observables based on the Sunyaev Zeldovich (SZ) effect constitute a promising avenue for constraining cosmological models and reshaping our understanding of galaxy formation. In this talk we will review what the thermal and kinetic SZ effects are, why they are going to become a cornerstone of precision cosmology, and how we may use them to maximize the science output of next generation surveys.

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