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Neutrinos with CMB and CMB lensing

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A number of ground-based CMB surveys are currently in the planning stages that will provide significant new information on properties of physics beyond the standard model. Measurements of the lensing of the CMB are expected to provide evidence for neutrino mass in the case of a minimal mass as expected from neutrino oscillation experiments. Meanwhile measurements of the phase of the acoustic plasma will provide constraints on particles that are in equilibrium with the standard model prior to decoupling. After reviewing the prospects for these measurements I will discuss some of the technical challenges involved.

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