

Abstract for an Invited Paper
for the APR06 Meeting of
The American Physical Society

Highlights of Neutrinos in Cosmology

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Neutrinos play unique roles in many epochs of the Universe's evolution. Important information can be gleaned from neutrino evolution during the big bang nucleosynthesis era, while at later times neutrinos have a significant impact on the cosmic microwave background and large scale structure power spectra. For example, cosmological data now place the tightest constraints on neutrino mass, though there is scope to evade these limits if the physics of the neutrino sector is non-standard. We outline the wealth of information that can be revealed by studying the sea of relic neutrinos.