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Implications of future large-scale structure observations for the neutrino mass sum

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In the next decade we will almost certainly measure the neutrino mass sum to high significance. Neutrino cosmology faces a revolution due to upcoming large-scale structure surveys such as Euclid and DESI. Although accurate modelling of non-linear scales will be crucial for reaching high levels of significance, we will have a wealth of data from other sources as well: future CMB experiments will not only complement large-scale structure data through observations of the primary CMB anisotropies and lensing, but will allow us to probe the large-scale distribution of matter through the Sunyaev-Zeldovich effect.

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