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Neutrino oscillation anomalies

Wednesday 26 October 2022 09:05 (35 minutes)

I give an overview of the several anomalies appearing in neutrino oscillation experiments. I will briefly discuss the LSND and MiniBooNE anomalies and the recent results from the MicroBooNE experiment before turning, in the main part of the talk, to the reactor antineutrino anomaly and the Gallium anomaly. I will discuss these two anomalies in some detail and, in particular, compare their explanation due to neutrino oscillations in presence of a light sterile neutrino among each other and also with the bounds from the analyses of reactor spectral ratio data, β -decay data, and solar neutrino data.

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