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Updated MiniBooNE Neutrino Oscillation Results within the Context of Global Fits to Short-Baseline Neutrino Data

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In its original 2002-2007 run, MiniBooNE observed an anomalous and yet-unexplained excess of electromagnetic events at low energy neutrino energies. This observation is one of several that has pushed the discussion and search for sterile neutrinos. Since 2016, MiniBooNE has been collecting new neutrino-mode data, doubling the statistics from the original 2002-2007 run. We will revisit the originally observed excess, with one analysis treating the new data as stand alone, and another analysis looking at the combined data. We will then discuss the global fits to the world's short-baseline neutrino data, focusing on models with sterile neutrinos and including the updated MiniBooNE results.

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