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Sterile neutrinos: fact or fiction?

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In this talk I will critically review some of the anomalies which in combination could point to the existence of a eV-scale sterile neutrino. Each of these anomalies is well below the 5 sigma level individually and may have explanations besides sterile neutrinos. At the same time each anomaly requires a separate explanation if it is not caused by a sterile neutrino. To further complicate the picture, some data sets are in mutual disagreement.