



Tuesday 5 July, 09:00 – 09:20

Session 5: Reactor neutrinos

Reactor antineutrino fluxes - status and challenges

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Nuclear reactors have been the workhorse of neutrino physics for more than 50 years, yet in 2011 a major surprise was found when a group from Saclay recomputed the antineutrino yield from nuclear fission. This has triggered the reactor antineutrino anomaly, which can be explained by a so-called sterile neutrino, not predicted by the Standard Model. In this talk I will explain the underlying nuclear physics to the antineutrino yields and discuss associated uncertainties. The focus will be on the current understanding of reactor antineutrino fluxes and I will point out some recent developments.