

Status of neutrino oscillations and sterile neutrinos

vendredi 22 juillet 2011 17:20 (20 minutes)

We present an up-to-date global analysis of solar, atmospheric, reactor and accelerator neutrino data in the framework of three-neutrino oscillations, discussing in detail the statistical significance of the observed “hint” of non-zero θ_{13} and determining the presently allowed ranges of masses and mixing. We then turn to models with one or two sterile neutrinos and present a re-analysis of global short-baseline neutrino oscillation data, taking into account the new predictions for the anti-neutrino flux emitted by nuclear reactors.

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Classification de Session: Neutrino Physics

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