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Long Baseline Neutrino Oscillations Experiments

Wednesday 16 September 2015 10:00 (40 minutes)

Some of the most precise measurements of neutrino oscillation parameters have been made using accelerator based muon neutrino beams. By studying how the flavour composition of a beam of muon neutrinos changes and they become electron and tau neutrinos, one can not only measure several mixing angles of the PMNS matrix, but also their mass differences squared. After a short introduction into the phenomenology of neutrino oscillations at accelerators, the presentation will summarise the current status of the field and give an outlook of how future facilities will allow to determine the neutrino mass hierarchy and CP violation in the neutrino sector.

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