



Tuesday 5 July, 16:05 – 16:30

Session 8: Searches for phenomena beyond the Standard Neutrino Model

**Oscillations beyond three-neutrino mixing**

C Giunti

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I will review the phenomenology of neutrino oscillations beyond the standard three-neutrino mixing paradigm, considering the non-standard effects which are currently most studied. First, I will review the most recent results on the fit of the data of short-baseline neutrino oscillation experiments in the  $3+1$  and  $3+2$  frameworks with light sterile neutrinos and I will discuss the implications for future measurements. Then, I will review the most recent results on the non-unitarity of the mixing matrix due to the existence of heavy sterile neutrinos, on the effects of non-standard neutrino interactions and on the effects of electromagnetic interactions due to neutrino magnetic moments.