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## Neutrino Masses, Mixing, Majorana and Dirac CP-Violation and Leptogenesis

*Thursday 11 December 2008 17:00 (25 minutes)*

The CP-violation necessary for the generation of the baryon asymmetry of the Universe  $Y_B$  in flavoured" leptogenesis scenario can arise from the low energy" PMNS neutrino mixing matrix  $U$  and/or from the high energy" part of neutrino Yukawa couplings, which can mediate CP-violating phenomena only at some high energy scale.

In the proposed talk

i) the possibility that the requisite CP-violation in leptogenesis is provided exclusively by the Majorana or Dirac phases in the neutrino mixing matrix and

ii) the interplay between the indicated two types of CP-violation in flavoured" leptogenesis, will be discussed.

Results obtained within the type I see-saw model with three heavy right-handed Majorana neutrinos having hierarchical mass spectrum will be reported.

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