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

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The compelling experimental evidences for oscillations of solar and atmospheric neutrinos imply the existence of 3-neutrino mixing in vacuum. The phenomenology of 3-neutrino mixing, and the current data on the 3-neutrino mixing parameters will be reviewed. The open questions and the main goals of future research in the field of neutrino mixing and oscillations will be outlined.

Dirac and Majorana violations of CP-symmetry in the lepton sector and their possible manifestations will be considered. The problem of determination of the nature - Dirac or Majorana, of massive neutrinos will be discussed. The possible connection between the generation of the baryon asymmetry of the Universe and low energy CP-violation in the lepton sector will be considered as well.

Lundi 28 janvier à 15h

Salle André Berthelot, bât. 141

Le café sera servi 15 minutes avant

NB : La présentation d'une carte d'identité ou d'un passeport est exigée à l'entrée du centre. Tous les auditeurs extérieurs sont priés de prévenir à l'avance de leur visite Emilie Chancrin, tél. 01 69 08 23 50 (U.E. : délai de 24 h, hors U.E. : délai de 4 jours).

