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Measuring δ_{CP} and constraining lepton flavour models at ESSnuSB

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ESSnuSB is an upcoming accelerator based experiment in Sweden to study neutrino oscillation. The main aim of this experiment is to measure the leptonic CP phase δ_{CP} by probing the second oscillation maximum. This experiment is also capable to test the viability of different lepton flavour models based on their prediction of the CP phase. In this presentation, I will discuss the sensitivity of ESSnuSB to measure the CP phase and also its capability to constrain the parameter space of a set of lepton flavour models.

Orateurs: GHOSH, Monojit; Dr GHOSH, Monojit (Ruder Boskovic Institute)

Classification de Session: Experiments