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Title:	Probing the CP Phases in 3+1 Scenario at LBL Experiments
Authors:	Fiza, Nishat (/jspui/browse?type=author&value=Fiza%2C+Nishat) Masud, Mehedi (/jspui/browse?type=author&value=Masud%2C+Mehedi) Mitra, M. (/jspui/browse?type=author&value=Mitra%2C+M.)
Keywords:	Sterile neutrino CP violation CP Phases
Issue Date:	2022
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Citation:	Springer Proceedings in Physics, 27(1), 595-598.
Abstract:	Anomalies in a few short-baseline experimental data have indicated towards the existence of a fourth neutrino (essentially sterile) in addition to the 3+0 neutrino oscillation picture. Should sterile neutrino exist in nature and its presence is not taken into consideration properly in the analyses of neutrino data, the interference terms arising due to the additional CP phases in the presence of a sterile neutrino can severely impact the physics searches in long baseline (LBL) neutrino oscillation experiments. In this analysis we have considered one eV-scale sterile neutrino and illustrated the $\chi 2$ correlations of the CP phases among each other and also with the three active-sterile mixing angles
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