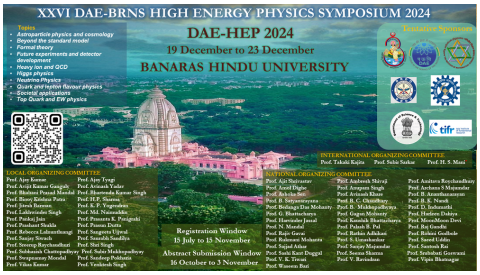

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NSI effects on tripartite entanglement measures

Quantum correlation measures are extensively studied in neutrino systems as some measures show nonclassical features in neutrino oscillation. Entanglement is also a splendid measure to study in neutrino system. Recently it was shown that entanglement of formation (EoF) and concurrence are better entanglement measures than negativity. We analyze the effects of non-standard interaction (NSI) on some entanglement measures in the context of various experimental setups for three flavor neutrino oscillation scenario. We find that the impact of NSI can be maximum in the long baseline experiment DUNE. Further, we show that negativity is a weaker measure still it is more sensitive for NSI than concurrence for higher energy range.

Field of contribution

Phenomenology

Authors: YADAV, Bhavna; Ms KONWAR, Lekhashree (Indian Institute of Technology Jodhpur, Rajasthan, India)

Presenter: YADAV, Bhavna

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