

New physics from oscillations at the DUNE near detector, and the role of systematic uncertainties (15'+3')

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We study the capabilities of the future DUNE experiment to probe several new physics scenarios, namely deviations from unitarity of the leptonic mixing matrix, searches for light sterile states and NSI's. We study in detail the impact of several systematic uncertainties to the near detector sensitivity to new physics.

Auteur principal: ROSAURO, Salvador

Orateur: ROSAURO, Salvador