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Three Neutrino Oscillations in Uniform Matter

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Following similar approaches in the past, the Schrodinger equation for three neutrino propagation in matter of constant density is solved analytically by two successive diagonalizations of 2x2 matrices. The final result for the oscillation probabilities is obtained directly in the conventional parametric form as in the vacuum but with explicit simple modification of two mixing angles ($\theta 12$ and $\theta 13$) and mass eigenvalues.

Author: Dr IOANNISYAN, Ara

Presenter: Dr IOANNISYAN, Ara

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