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3+N flavor neutrino propgation with NuSQuIDS

Tuesday 15 September 2015 18:02 (16 minutes)

We introduce the SQuIDS framework, which was designed to solve quantum mechanical evolution in the density matrix formalism in an efficient way. A specialization of this package for neutrino propagation, called ν-SQuIDS, is showcased. Finally, we show how this new propagation scheme is being integrated into the IceCube MC software to add flexibility for analyzers.

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