Abstract Submitted
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What we know about neutrino mixing angles and mass-squared differences[1] DAVID ERNST, Vanderbilt and Fisk Universities, JESUS ESCAMILLA-ROA, Vanderbilt University, DAVID LATIMER, Reed College, BERNADETTE COGSWELL, Vanderbilt and Fisk Universities — Results of an analysis of the pertinent world's neutrino oscillation data, in the context of three neutrinos, will be presented. The analysis includes the most recent Super-K atmospheric data, all solar data sets, the long-baseline MINOS survival and oscillation data, the KamLand reactor data, the CHOOZ reactor data, and any data released in sufficient time for an analysis to be performed. Exact oscillation probabilities that include all linear and higher order terms in θ_{13} are used . We will focus on our knowledge of θ_{13} including its sign, the implications of this data for deciding the correct mass hierarchy, and any indications, if any, in the present data for CP violation. Thoughts on the significance of future but near-term experiments will be put forth.

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