

Abstract Submitted
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Supernova neutrino sensitivity of a water Cherenkov detector

MARK STEADMAN, Duke University — One of the most interesting recent discoveries is that of neutrino oscillations. Even with recent progress some of the parameters of the mixing matrix, such as Θ_{13} , are not well-known. A galactic supernova provides the possibility to measure these parameters, as well as to determine the nature of the mass hierarchy. I will present a poster on the potential to measure these parameters using current water Cherenkov detectors such as the Super-Kamiokande detector.

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