

Abstract Submitted  
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**Calculating neutrino oscillation probabilities in matter** JEDESHKERAN CHANDRASEGARAN, PREET SHARMA, Midwestern State University — Neutrino oscillations have been a very hot research topic in particle physics. They provide a description to the Universe we live in and give a picture as to what it was in the past and what it is currently. Neutrino oscillations are a very effective tool in understanding the very fundamental questions like cp-violation. Since neutrinos pass through anything and everything without interacting, we have calculated neutrino oscillations in matter when neutrinos pass through the earth.

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