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Neutrino mass hierarchy and CP phase measurement using atmospheric neutrino flux

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**Abstract content (Max 300 words)
Formatting &
Special chars**

Multi-megaton scale ice or water Cherenkov detectors with relatively low (sub-GeV) threshold energy can accumulate huge statistics of atmospheric neutrino data. With reasonable energy and angular reconstruction efficiency for the neutrino events, these data can be used to establish yet unknown neutrino mass hierarchy with high confidence. Leptonic CP phase can also be measured using atmospheric neutrino flux, once hierarchy is established and uncertainty on the flux and other neutrino parameters are better understood. Following up on previous work on this topic we will present the latest calculation results in lights of recent developments.

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No

**Level for award
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 & PhD, N/A)?**

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