



## Poster session 4 – Friday 8 July

### P4.021 Atmospheric tau neutrino appearance measurement with IceCube DeepCore

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*on behalf of IceCube Collaboration*

IceCube DeepCore has observed atmospheric oscillations in the muon neutrino disappearance channel with a sample of track-like events. The corresponding tau neutrino appearance may be measured as an excess of cascade-like events. The next generation oscillation measurements from IceCube, with more than an order of magnitude increase in statistics, provide increased sensitivity to atmospheric neutrino oscillations, granting access to the simultaneous measurement of muon neutrino disappearance and tau neutrino appearance. This poster will present the current status of Monte Carlo simulation studies with projected DeepCore sensitivity to tau neutrino appearance.