

Environmentally-induced decoherence in IceCube

Friday, January 5, 2018 9:25 PM (5 minutes)

Recent tension between two cutting edge neutrino oscillation experiments has sparked the idea of environmentally-induced decoherence. This effect alters the oscillation probability, depending on how far the neutrino travels. This search is focused on probing decoherence using the IceCube neutrino observatory, by measuring θ_{23} for neutrinos which have travelled different distances through the earth before reaching the detector.

Summary

Primary author: Mr JENSEN, Mikkel

Presenter: Mr JENSEN, Mikkel

Session Classification: Lightning talks and "Kos"

Track Classification: Particle physics - experiment