

Constraints on non-standard flavor-dependent interactions from Superkamiokande and Hyperkamiokande

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Flavor-dependent neutral current non-standard interactions in propagation of neutrino induce extra matter effect for neutrinos. Such interactions for the ν_e and ν_τ sectors have poor constraints from current experimental data, and they can be as large as those in the Standard Model. In this talk I would like to discuss the constraints on such non-standard interactions from atmospheric neutrino experiments such as Superkamiokande and Hyperkamiokande.

WG3: Accelerator Physics (Yes/No)

No

WG2: Neutrino Scattering Physics (Yes/No)

No

WG4: Muon Physics (Yes/No)

No

WG1: Neutrino Oscillation Physics (Yes/No)

Yes

Type of presentation

Oral presentation

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