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## HK Sensitivity to Sterile Neutrinos and Lorentz Violation

Thursday 29 January 2015 15:00 (20 minutes)

I will present studies of Hyper-K's potential sensitivity to sterile neutrino oscillations induced by the parameters  $|U\mu 4|^2$  and  $|U\tau 4|^2$  and isotropic Lorentz-violating parameters from the Standard Model Extension (SME). These sensitivity studies are based on SK analyses, scaled up to equivalent HK livetimes.

## Length (min.) request (including discussion time)

20 minutes

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Session Classification: Physics Potentials

Track Classification: Physics Potential