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Sterile neutrinos at neutrino telescopes

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Atmospheric neutrino data collected by huge neutrino telescopes, such as IceCube, provide the opportunity to probe new physics unprecedentedly, both due to high statistics and the high energy range. In this talk I discuss the effect of sterile neutrinos on atmospheric neutrino flux. I present the current constraints on active-sterile mixing obtained from IC-40 and IC-79 data sets. Also the sensitivity prospect of the IceCube/DeepCore will be discussed for both muon-track and cascade events.

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