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New physics searches with the TeV scale neutrinos

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IceCube observation of high-energy astrophysical neutrinos has opened the astrophysical neutrino window. As we accumulate statistics IceCube not only starts characterizing the astrophysical neutrino component, but also makes improved measurements of the highest energy atmospheric neutrinos. In this talk I will discuss how we can use both high-energy atmospheric neutrinos as well as astrophysical neutrinos as a probe of new physics.

Author: ARGUELLES, Carlos (MIT)

Presenter: ARGUELLES, Carlos (MIT)

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