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COHERENT constraints on generalized neutrino-quark interactions

Saturday 7 July 2018 15:30 (15 minutes)

Generalized neutrino-quark interactions can be studied in a fairly model-independent way by considering dimension-six effective operators constructed by only requiring Lorentz invariance. In this talk, following such approach, I will discuss the constraints on generalized neutrino-quark couplings implied by COHERENT data. I will show that some of these interactions can still be sizeable, and that when included provide a better fit to the data that the standard model alone.

Author: ARISTIZABAL, Diego (Universite de Liege)

Presenter: ARISTIZABAL, Diego (Universite de Liege)

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