

# Theoretical and Experimental aspects of the Electroweak-scale right-handed neutrino model with displaced vertices as distinct signatures

*mardi 17 juillet 2018 08:30 (40 minutes)*

New physics signals with displaced vertices have attracted the recent attention of the collider community (theoretical and experimental). In this talk, we will describe how a model of non-sterile right-handed neutrinos with masses being proportional to the electroweak scale ( $\sim 246$  GeV) naturally gives rise to long-lived particles with displaced vertices as characteristic signals. An interesting connection between the absolute neutrino mass and an axionless solution to the strong CP problem will be presented.

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