

Heavy Neutrinos with Dynamic Jet Vetoes

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Heavy neutrinos (N) are commonly hypothesized in low-scale neutrino mass models and may be accessible at experiments such as LHC, or its potential successors like the 27 TeV HE-LHC or 100 TeV VLHC. We show how collider searches for such objects employing an usual (dynamic) jet veto scheme can radically improve sensitivity to EW- and TeV-scale heavy N . The new scheme is applicable to searches for other new, colorless particles. QCD properties of the dynamic jet veto and anticipated sensitivities at future facilities are also presented.

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