Particle Physics Challenges



Contribution ID: 30

Type: not specified

Heavy Neutrinos and Safe Jet Vetoes in Hadron Collisions

Wednesday 26 September 2018 14:05 (20 minutes)

Heavy neutrinos (N) are a common prediction 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 jet veto scheme can radically improve signal and background separation, and hence greatly improve sensitivity to EW- and TeV-scale heavy N. QCD properties of this veto scheme and anticipated sensitivities at future facilities are also presented.

Primary author: RUIZ, Richard (Durham University)

Presenter: RUIZ, Richard (Durham University)

Session Classification: Parallel Session: Pheno 1

Track Classification: Particle Phenomenology