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## Colorful Production of Heavy Neutrinos at Hadron Colliders

Monday 8 May 2017 17:30 (15 minutes)

We revisit heavy neutrino production via gluon fusion  $gg \rightarrow h^*/Z^* \rightarrow N\nu$ , and its relative importance at hadron colliders with respect to the charged current Drell-Yan  $q\bar{q}' \rightarrow W^* \rightarrow N\ell$  and the vector boson fusion  $q\gamma \xrightarrow{W\gamma} N\ell$   $q'N\ell$  processes.

In this context, we present, for the first time, resummed threshold contributions to the gluon fusion channel. We discuss also the phenomenological impact of such corrections for the large hadron collider and hypothetical 100 TeV very large hadron collider.

### Summary

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