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## Light mesons from light heavy neutrinos at the LHC

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In the context of the Phenomenological Type I Seesaw, we investigate the LHC's sensitivity to exclusive, mesonic decay modes of long-lived, light (Dirac and Majorana) heavy neutrinos N when they are produced in the decays of  $W^{\pm}$  bosons. We present a new framework that combines massless QCD to describe N's production up to NLO in QCD via weak bosons with a low-energy effective field theory to describe N's decays to mesons. We provide a prescription for fast, numerical determination of N's partial and total widths for any mass and accounts for mesonic decay modes.

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