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Type: **Parallel session**

## Jet veto resummation for Higgs+jet production with NNLL'+NNLO uncertainties

*Wednesday, 29 November 2023 14:40 (15 minutes)*

I will present predictions for jet veto resummation in the Higgs+jet process with NNLL'+NNLO uncertainties. These are an important input to facilitate comparison of theory with data via the Simplified Template Cross Section (STXS) framework. The resummation has been achieved in the framework of soft-collinear effective theory, using an extension of a factorisation theorem first studied by Liu and Petriello. I will discuss the novel features of our study, including the importance of power corrections and the use of theory nuisance parameters to estimate the effect of missing higher order terms.

### You are

non-PhD student

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