Contribution ID: 4 Type: **not specified** 

## Exact quark mass corrections to Higgs production in association with a jet

Tuesday 12 March 2024 16:30 (30 minutes)

In this talk, we present the computation of the next-to-leading order QCD corrections to the production of a Higgs boson in association with a jet at the LHC, including the exact dependence on the masses of quarks circulating in heavy-quark loops. The NLO corrections are computed including the top-quark mass and the bottom-quark mass as well. We show results in the on-shell mass scheme as well as a running mass renormalisation scheme.

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Session Classification: Short talks