

Short introduction to my research interests

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finished:

- differential distributions for $b\bar{b} \rightarrow H + j$ at NLO in 5FS
- jet-veto for $(b\bar{b})H$ at NNLO
- top mediated effects to the Higgsstrahlungs process

ongoing:

- top mass effects in differential distributions for gluon fusion.
- transverse momentum resummation for $b\bar{b} \rightarrow H$ at NNLL

planned:

- fully differential $b\bar{b} \rightarrow H$ at NNLO

Further research interests

- universal subtraction method at NNLO
- automatization of higher order calculations
- NLO + parton shower matching (combination with NNLO?)
- phenomenological studies of Higgs physics (e.g. MSSM)
- ...