



Contribution ID: 211

Type: **not specified**

## Techniques for the SUSY-QCD corrections to pseudoscalar Higgs production via gluon fusion

*Friday 27 August 2021 17:00 (20 minutes)*

We present the technical methods for the NLO SUSY-QCD corrections to the production of the pseudoscalar MSSM Higgs boson in the gluon fusion channel. While the genuine SUSY-QCD corrections have been calculated in the limit of large SUSY particle masses some while ago, the finite mass effects are unknown. In this talk, I will present the technical details of our calculation of the NLO SUSY-QCD corrections including the full mass dependence of the loop particle masses. Since analytic formulae for the massive two-loop integrals of the virtual corrections are unknown the calculation is performed numerically. The details of the computation will be presented including the treatment of the threshold regions for numerical stability by IBP methods. Our consistent renormalization scheme worked out for the quark/squark sector and applied in the calculation will be explained in detail.

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**Session Classification:** Electroweak, Top quark, and Higgs Physics

**Track Classification:** Electroweak, Top quark, and Higgs Physics