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## **Bottom and strange Yukawa couplings at the NNLO in the MSSM**

*Friday, April 26, 2019 6:55 PM (20 minutes)*

In MSSM scenarios characterised by large  $\tan(\beta)$ , bottom-Yukawa-induced processes, such as Higgs decays into bottom pairs and Higgs bremsstrahlung off bottom quarks, play a major role at present and future colliders. Therefore, radiative corrections to the bottom Yukawa coupling are of extreme importance. Currently they are known in a resummed form at the NNLO level. The resummed result can be easily adapted for the strange Yukawa coupling. In this talk, I will review the calculation of the SUSY-QCD two-loop corrections to the strange and bottom Yukawa couplings, which includes the resummation of the dominant corrections for large values of  $\tan(\beta)$ , as well as the subleading terms induced by the trilinear Higgs couplings  $A_{b,s}$ . Moreover, preliminary results on the two-loop electroweak corrections to the bottom Yukawa coupling will be presented. The phenomenological impact of the calculation will also be discussed.

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