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Associated b Quark-Higgs Boson Production at the LHC

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We present the one-loop electroweak effects for the process of semi-inclusive b -Higgs production at the LHC. The electroweak effects are significant for heavy Higgs bosons and can be obtained using an effective theory approach. We also discuss new results for the merging of the 4 flavor number parton distribution scheme and the 5-flavor number parton distribution scheme for the calculation of b -Higgs production at NLO. The merged scheme captures the relevant kinematic features at all scales.

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