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Higgsstrahlung and Higgs production beyond the Standard Model

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The status of Higgsstrahlung and single Higgs production cross-section predictions with the program SusHi is presented. It includes predictions in the Standard Model but also other models like the MSSM. A discussion of the calculation of total cross sections is followed by a description of the calculation of the invariant mass distribution of the Higgsstrahlung cross section. Lastly, methods for the implementation of the calculation of fully differential cross sections as a possible upcoming feature of SusHi is elaborated which results in a short introduction to subtraction schemes.

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