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Light Charged Higgs in the 3HDM

In 3HDM models the decay of light H^+ to cb can be enhanced. This page collects the BR for these decays, depending on model parameters X , Y , Z and the H^+ mass.

Theory input

These numbers are based on the following theory papers, by A. Akeroyd, W.J. Stirling, S. Moretti, J. Hernandez-Sanchez, K. Yagyu, E. Yildirim, M. Song

- Nucl. Phys. B447 (1995) 3; Nucl. Phys. B544 (1999) 557; Phys. Rev. D85, 115002 (2012)
- Int. J. of Mod. Phys. A32, 1750145 (2016); Phys. Rev. D98, 115024 (2018); arXiv:1908.00826

More information can also be found in A. Akeroyds talk [at CERN Sept 26th \(2019\)](#)

BR for $H^+ \rightarrow cb$ in the 3HDM

- dthbhcb60.0.txt: dthbhcb60.0.txt
- dthbhcb70.0.txt: dthbhcb70.0.txt
- dthbhcb80.0.txt: dthbhcb80.0.txt
- dthbhcb85.0.txt: dthbhcb85.0.txt
- dthbhcb90.0.txt: dthbhcb90.0.txt
- dthbhcb95.0.txt: dthbhcb95.0.txt
- dthbhcb100.0.txt: dthbhcb100.0.txt
- dthbhcb105.0.txt: dthbhcb105.0.txt
- dthbhcb110.0.txt: dthbhcb110.0.txt
- dthbhcb115.0.txt: dthbhcb115.0.txt
- dthbhcb120.0.txt: dthbhcb120.0.txt
- dthbhcb125.0.txt: dthbhcb125.0.txt
- dthbhcb130.0.txt: dthbhcb130.0.txt
- dthbhcb135.0.txt: dthbhcb135.0.txt
- dthbhcb140.0.txt: dthbhcb140.0.txt
- dthbhcb145.0.txt: dthbhcb145.0.txt
- dthbhcb150.0.txt: dthbhcb150.0.txt
- dthbhcb155.0.txt: dthbhcb155.0.txt

- dthbhcb160.0.txt: dthbhcb160.0.txt

-- JanaSchaarschmidt - 2019-11-04

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