



MEETING OF THE AMERICAN PHYSICAL SOCIETY DIVISION OF PARTICLES AND FIELDS

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## Charged Higgs production with a W boson via b-quark annihilation

*Wednesday, 2 August 2017 13:50 (20 minutes)*

I present theoretical results for charged Higgs production in association with a W boson via bottom quark annihilation at the LHC. I calculate higher-order radiative corrections from collinear and soft gluon emission and show that they are very significant. I present results for total cross sections as well as transverse-momentum and rapidity distributions of the charged Higgs boson for various LHC energies.

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