

The top-quark mass: uncertainties due to bottom-quark fragmentation

Monday, 28 August 2017 18:00 (30 minutes)

I will discuss the theoretical uncertainties on the top-quark mass determination, due to bottom-quark fragmentation in top decays. In particular, the fragmentation parameters in both HERWIG and PYTHIA, the two main parton shower generators, will be taken into account and their impact on several observables, relevant for the top-mass extraction, will be investigated. Furthermore, I will also comment on the role played by fragmentation uncertainties on the identification of the measured mass with the top-quark pole mass.

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