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Top-quark mass extraction from top pair differential distributions

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Differential distributions for top-quark pair production can be employed to extract the top-quark pole mass. In addition to precision measurements of these distributions, accurate predictions of the observables for different values of the masses are needed. Using next-to-next-to-leading order predictions a first extraction has been performed using data taken at the Tevatron. In this talk, I will compare this method to other mass extraction methods and show that it can be a powerful tool to extract the top-quark pole mass at the LHC as well.

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