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New approaches in determining m_{top} : alternative techniques and differential measurements

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Measurements of the top quark mass employing alternative methods are presented using data collected by the CMS experiment in proton-proton collisions at the LHC in the years 2011 and 2012 at centre-of-mass energies of 7 and 8 TeV. The alternative methods include the use of endpoint distributions as well as the study of possible model dependencies of the top mass measurement on the event kinematics. Measurements of the difference between the masses of top and anti-top quarks are also presented. Furthermore, the top quark mass, and also α_s are extracted from the measured top quark pair cross section.

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