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ATLAS+CMS top mass: current results and future measurements

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The LHC experiments are fast catching up with Tevatron on the accuracy of the top quark mass (m_t) measured using standard methods, with the latest CMS combination reaching an accuracy of 0.66 GeV compared to 0.64 GeV for Tevatron. The future prospects look promising as both ATLAS and CMS have commissioned new methods (3D- R_{lb} , $Z+b/Z+jet$ ratio) to address the leading systematic uncertainty from b-jet energy scale (bJES). At this level of precision the agreement between generator mass m_t^{MC} and the theoretical pole mass m_t^{pole} becomes relevant, and alternative methods are also explored.

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