Abstract

At the Large Hadron Collider, the precise measurement of Top quark mass is one of the main physics goals.

Concerning the huge amount of data collected by CMS in the ttbar signal events, it's expected to reach an unprecedent precision namely ١ GeV. In other words, Top mass is about to be measured by ٠,٥٪ uncertainty on its mass. In this talk, the possible ways of Top pair decay within the standard model are reviewed and the potential of CMS experiment in measuring the Top mass is discussed.