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Observation of the X(3872) state at CMS

vendredi 22 juillet 2011 15:30 (15 minutes)

A measurement of the ratio of X(3872) and \psi(2S) signal yields in pp collisions at 7 TeV is presented, using data recorded with the CMS experiment in 2010. The corresponding integrated luminosity is 36/pb. X and Psi(2S) decays are reconstructed in the final state $J/\psi\pi^+\pi^-$, with the subsequent decay of the J/ψ into two muons. The measured ratio is compared to theoretical expectations.
In this talk we present preliminary measurements of the Bc mass and lifetime in the J/Psi+pion decay performed with the CMS experiment. The lifetime is measured for the first time using a fully kinematically reconstructed channel; Unlike previous measurements from the Tevatron, the fully reconstructed channel does not require corrections for undetected neutrinos from Monte Carlo simulation.

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