

Abstract Submitted
for the APR06 Meeting of
The American Physical Society

Inclusive b production measurement with CMS at LHC DAVID CLINE, VALERY ANDREEV, STAN OTWINOWSKI, UCLA, CMS COLLABORATION — At the LHC new opportunities to improve our understanding of the physics of the B quark will become available because of the high statistics data samples and high center-of-mass energy that the new accelerator will provide. The CMS collaboration will measure the cross section for inclusive b production in proton-proton collisions at $\sqrt{s} = 14$ TeV. A study has been performed to investigate methods of identifying b jets (b “tagging”) in an inclusive sample of events containing jets and at least one muon. We present CMS’s capability to measure the inclusive b production cross section as function of B-hadron transverse momentum and pseudorapidity.

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Date submitted: 09 Jan 2006

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