



NEW YORK CITY COLLEGE OF TECHNOLOGY
Physics Department
Seminar in Theoretical Physics

Top-Quark Pair Production at Hadron Colliders

Presented by:

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**Thursday, February 18, at 12:30 PM
Namm 805 (Conference Room in Dean's Office)**

Abstract

The study of the properties of the top quark is one of the main goals of the Large Hadron Collider (LHC) physics program. At both Tevatron and the LHC, top and antitop quarks are mainly produced in pairs. The experimental precision expected at the LHC requires the calculation of the top-quark pair-production cross section up to next-to-next-to-leading order (NNLO) corrections in QCD. In this talk, I will discuss recent calculations which aim to improve the accuracy of the predicted top-quark production cross section and related observables.