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Special Lecture: Top anti-top production and spin correlations at the LHC

Friday, 12 December 2025 15:30 (1 hour)

(45+15min)

Abstract:

In recent CMS and ATLAS publications it has been argued that current measurements of $t\bar{t}$ cross section and spin correlations near the production threshold require the addition of a large cross section component due to toponium production.

In this talk I will show that both the cross section and spin correlations can be computed in perturbation theory without the need for the addition of a toponium contribution, and I will discuss the current status of the comparison of the experimental findings with theoretical expectations.

Presenter: Prof. NASON, Paolo (INFN, Sezione di Milano-Bicocca, and Universita di Milano-Bicocca)

Session Classification: Talks