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Searches for new physics in the top quark sector

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Abstract content

Fifteen years following the first glimpses of the top quark at Fermilab's Tevatron, physicists are now able to explore top quark physics with substantial precision. With almost 30 times the data of Run 1, we are learning much about the nature of this peculiarly heavy quark, while we are searching for hints of physics beyond the Standard Model in the top quark sector. I will present recent results on top quark production, decay, and properties, which probe forces at the highest energy scales, and may be the first to provide evidence of a more encompassing theory of particles and interactions.

Summary

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