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tZ' production at hadron colliders

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We present a study of the production of a single top quark in association with a heavy extra Z' at hadron colliders in new physics models with and without flavor-changing neutral-current (FCNC) couplings. We use QCD soft-gluon resummation and threshold expansions to calculate higher-order corrections for the total cross section and transverse-momentum distributions for tZ' production. The impact of uncertainties due to the structure of the proton and scale dependence is also discussed.

Summary

Primary authors: Dr GUZZI, Marco (Kennesaw State University); KIDONAKIS, Nikolaos (Kennesaw State University)

Presenter: Dr GUZZI, Marco (Kennesaw State University)

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