Contribution ID: **161** Type: **Contributed Talk**

tZ' production at hadron colliders

Wednesday, 25 March 2020 12:40 (20 minutes)

We study 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 the uncertainties due to the structure of the proton and scale dependence is also analyzed.

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

Presenter: GUZZI, Marco (Kennesaw State University)

Session Classification: Electroweak Physics and Beyond the Standard Model

Track Classification: Electroweak Physics and Beyond the Standard Model