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Higher order corrections to $t\bar{t}\gamma$ cross sections in the SM and Beyond

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I will present theoretical calculations of total cross sections and top-quark transverse-momentum and rapidity distributions in the associated production of a top-antitop pair with a photon ($t\bar{t}\gamma$ production) in the SM and SMEFT.

The theory predictions include complete QCD and electroweak corrections at NLO as well as soft-gluon corrections at approximate NNLO. Implications for SM predictions and bounds on top-quark electroweak anomalous couplings will be presented.

Author: Dr TONERO, Alberto (Kennesaw State University)

Co-author: KIDONAKIS, Nikolaos

Presenter: Dr TONERO, Alberto (Kennesaw State University)

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