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The automation of next-to-leading order electroweak calculations in MadGraph5_aMC@NLO

Monday 27 August 2018 15:00 (25 minutes)

We discuss the automation of the calculation of leading- and next-to-leading order contributions to short-distance cross sections at hadron colliders. With the new public version of the code MadGraph5_aMC@NLO, not only NLO QCD and EW corrections but also all the subleading contributions in a mixed QCD and EW coupling expansion can now be calculated. We discuss the key features for obtaining the complete automation and we show various relevant phenomenological results that can can be obtained with the current version of MadGraph5_aMC@NLO.

Primary authors: FREDERIX, Rikkert (TUM); FRIXIONE, Stefano (CERN); HIRSCHI, Valentin (ETHZ - ETH Zurich); PAGANI, Davide (TUM - Garching bei München); SHAO, Huasheng (Centre National de la Recherche Scientifique (FR)); ZARO, Marco (Nikhef National institute for subatomic physics (NL))

Presenter: PAGANI, Davide (TUM - Garching bei München)

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