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t tbar + isolated photon production at NLO accuracy matched with parton shower

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We simulate the hadroproduction of a $t\bar{t}$ pair in association with one or two isolated photons at the LHC using the PowHel program. The generated events are stored according to the Les-Houches event format and constitute an almost inclusive event sample (regarding the photons), so that usual experimental photon isolation can be employed. We interface those events to the PYTHIA shower Monte Carlo program, allowing for decays of massive particles, showering and hadronization, and present predictions for differential distributions at the hadron level.

additional information

based on arXiv:1406.2324 (revised version accepted for publication in JHEP) and on arXiv:1408.0278 (planned for submission to NPB)

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