

MC truth in xAOD

- MC truth task force report (ATL-COM-SOFT-2014-036) [↗](#)
- Monte Carlo Truth in the xAOD (Software tutorial on in June 2014) [↗](#)

- true MET

- Run2 xAOD MissingEt

NonInt - all stable, non-interacting particles including neutrinos, SUSY LSPs, Kaluza-
Int - all stable, interacting particles within detector acceptance ($|\eta|$)

- ATL-COM-PHYS-2018-158 [↗](#) Treatment of theory predictions in ATLAS (hadron-level, fixed-order parton level etc.)

MC Truth Classifier

- Zack's talk in Simulation Session on 28 Jan 2016 [↗](#)
- ATL-COM-PHYS-2019-1430 [↗](#) Description of leptons truth classification.
- gitLab: IFFTruthClassifier [↗](#)

Event weight

- PMG Truth Weight Tool tool to get event weight.
- ATLAS Exotics + SUSY Workshop on 25 Sep 2020 [↗](#) SimpleAnalysis Progress and plans
- SimpleAnalysis Tutorial [↗](#)

RIVET

- Rivet tutorial on 13 July 2016 [↗](#) HEP tool for analyzing Monte Carlo events.
- Exotica Plenary on 28 March 2019 (P&P week) [↗](#) RIVET 101: A starter guide for Exotics Analyses (Rivet is a generator-agnostic tool to make physics plots from the truth record in a fast and efficient way)
- Atlas Exotics+Higgs workshop on 14 Jun 2019 [↗](#) RIVET hands-on tutorial
- arXiv:1912.05451 (hep-ph) [↗](#) Robust Independent Validation of Experiment and Theory: Rivet version 3

-- KenjiHamano - 2016-02-02

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