



PYTHIA Event Files in DELPHES

Charles Hyde

2 September 2021



Sample test Delphes Run with 1M event file from PYTHIA-8

- ▶ DELPHES for CORE information
 - ▶ <https://eic.jlab.org/core/index.php/Delphes>
 - ▶ indico.jlab.org/event/461/
- ▶ BNL PYTHIA-8 files in HepMC2 format
 - ▶ `/gpfs/mnt/gpfs02/eic/bpage/home/eicBeamSimu/Pythia8/headonTestJin/test_crossDiv_35mRad_18x275_v1.hepmc`

Sample Delphes Output

- <https://eic.jlab.org/core/index.php/Delphes>
- <https://indico.jlab.org/event/465/>
- Sample Jet Reconstruction 18x275 GeV
- Open Questions:
 - Final vs Initial reconstruction
 - K_L & neutron multiplicities in central detector?
 - Full phase space & Cross Section Weight?

