

- Generic Pythia8 afterburner for crossing angle corrections, other beam effects:
 - <https://indico.bnl.gov/event/12022/>

- Full simulations are appearing on S3
 - access instructions http://doc.athena-eic.org/en/latest/howto/s3_file_storage.html
 - username/password: ask on slack #ip6-software-wg (or DM me)
 - ATHENA/EVGEN/JETS/crossDivNrgCrab – HepMC2 files
 - ATHENA/FULL/JETS/crossDivNrgCrab – full sim ROOT files, weekly
 - ATHENA/RECO/JETS/crossDivNrgCrab – reconstructed ROOT files (focused on ECAL and HCAL clustering, every few days)

- Computing needs (see next slide)

Computing Needs

6/23/21

<https://docs.google.com/spreadsheets/d/1FpzI20WqMalhbOqeGEiJMsXRwAvzisWRjCMfOHasUz0/edit#gid=0>

Semi-Inclusive Working Group	# events generator-level	# events fast simulation	# events full simulation
basic SIDIS sample for 18×275 , 10×100 , 5×100 , 5×41 , $Q^2 > 1$	4x100M split up in ~3 Q^2 ranges	fast simulations for all. Need to try different detector configurations, so fast simulations would be ~3x more events than pythia	4x100M (same as generator level)
di-hadron/di-jet sample	need ~4x1M di-jet and di-hadron events. Probably need to filter ~100M pythia8 events	same as above	~4M generated
lambda sample	can be filtered from basic SIDIS sample		~3M (might be the same as standard SIDIS sample, but might want to try out different tracking options here)

- What Q^2 ranges?
- Do we care about very high Q^2 (e.g., $> 1000 \text{ GeV}^2$)
- What's the luminosity (i.e., is this enough)? Note we can re-scale projections, but in any case we need to know the total cross sections
- Can the SW group filter for lambdas, or is that something we should develop?