

Background study status in inclusive PWG

Available files for backgrounds in DIS electron finding and inclusive variable reconstruction studies:

- Pi background
 - Background sample: Pythia6 10x100 minQ2 > 0 (available in campaign 26.03.0)
 - Signal samples: Pythia 6 10x100 minQ2 > 1, > 10, > 100, > 1000 (available in campaign 26.04.1)
- Beam background
 - 1 DIS per 2 μ s background: 10x100 minQ2 > 1, > 10, > 100, > 1000 (available in campaign 26.04.1)
 - No DIS per 2 μ s background: ?

Files are mostly available for initial studies. Need 9 GeV electron samples in the future.

Analysis status:

- We just now have the files needed. We started the eID study with background. Will look at kinematic reconstruction soon.
- At first glance, beam background is not expected to dramatically affect eID performance, aside from causing track loss.
- Photoproduction is the bigger issue.

