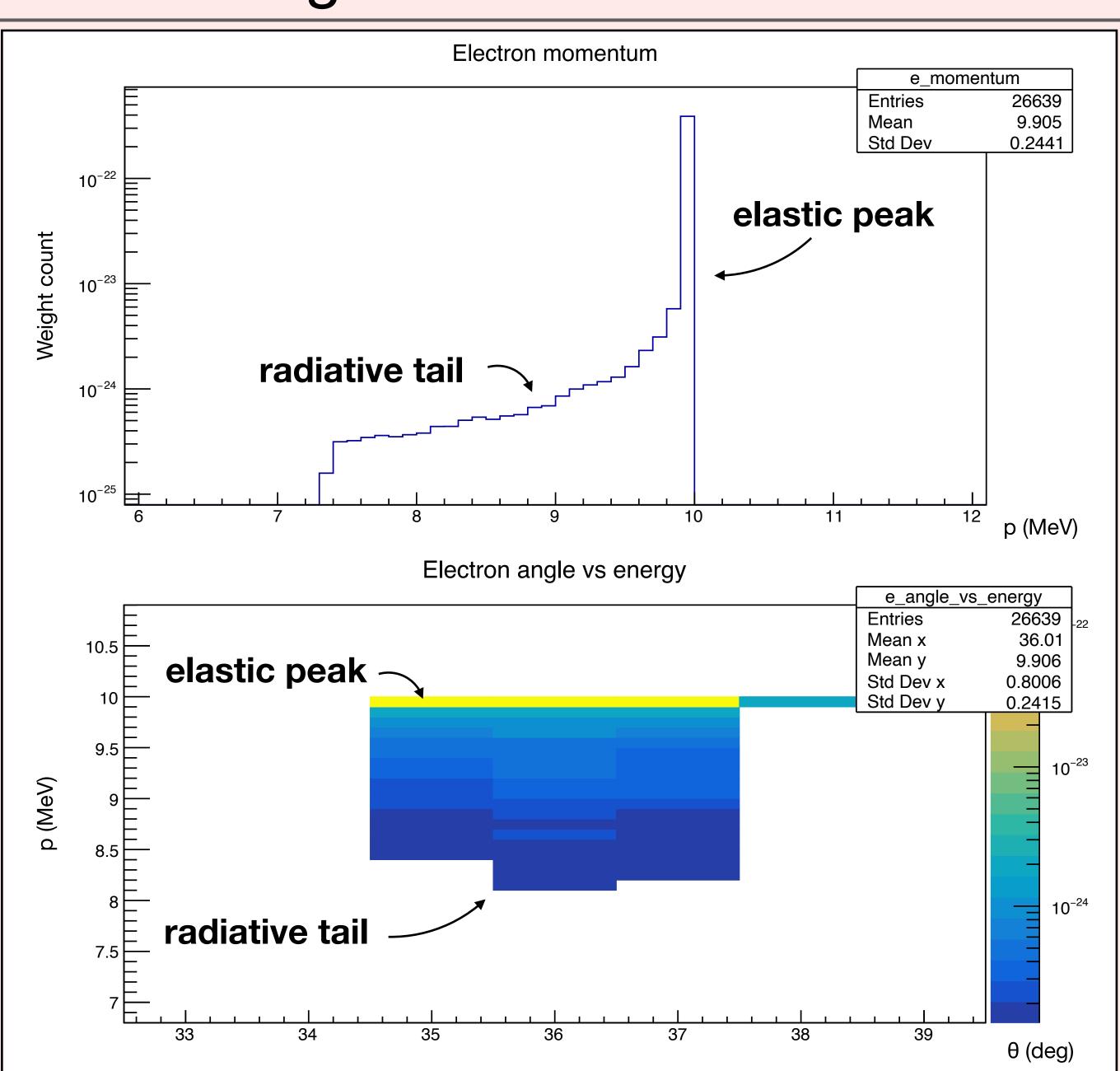
Radgen simulation: 10 MeV eC scattering

- 10 MeV kinetic energy e-
- Scattered off a proton with mass of carbon

Setup file for radgen

setup	= eC
beam_energy	= 0.01
eangle	= 36
emomentum	= 0.010497
eacceptance_theta	= 0.02357
eacceptance_phi	= 0.08727
eacceptance_momentum	= 0.3

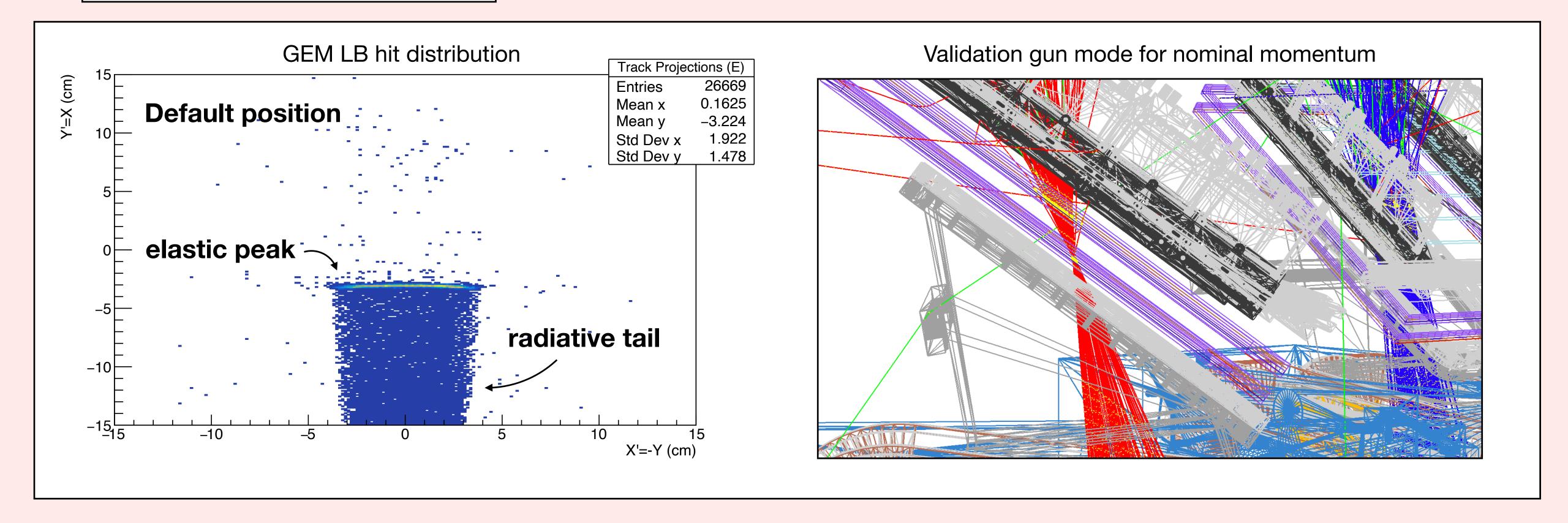
- Result is directly output to a ROOT tree that g4DL can read
- Only tested for left arm, but simulation and analysis should work the same for the right



Radgen simulation: 10 MeV eC scattering

- Passed generated event to simulation and analysis chain
- Update default momentum settings in simulation accordingly so the magnetic field is scaled:

/det/setESpecMom 10.497 MeV /det/setPSpecMom 10.498 MeV



Radgen simulation: 10 MeV eC scattering

- Hit distribution in dispersion direction can be used to
- Find GEM plane position (by comparing to the same setting in simulation)
- Find focal plane position (by looking for the narrowest peak)
- · Calibrate spectrometer nominal momentum (by comparing peak position after the above two are calibrated)

