Next steps after Pavia

- Thank you from all of us and PWG for the work so far
- Charge for CUA meeting (Sep 17-19; online):
  - Present mature studies of detector requirements from physics processes
  - Balance detector concepts versus impact on physics measurements
  - Discuss possible systematics reduction among complementary detector choices
  - Complete final “to-do” list for YR
- EICUGM moved to July 15-17; online
  - 1 day YR in program, format TBD
  - PWG meeting: preference to focus on interaction between WGs, not necessarily “reporting”
- Preprints of interest
  - Z. Tu, A. Jentsch et al., *Probing short-range correlations in the deuteron via incoherent diffractive J/ψ production with spectator tagging at the EIC,* https://arxiv.org/abs/2005.14706
  - W. Cosyn, Ch. Weiss, *Polarized electron-deuteron deep-inelastic scattering with spectator nucleon tagging,* https://arxiv.org/abs/2006.03033
- Meeting with Detector Complimentarity WG coming up in a few weeks
  - Question list
  - Yesterday covered in exclusive WG session: issue for coherent light nuclei detection
- Tomorrow’s Exclusive WG meeting (1030am EDT): VM prod (e/mu); meson FF; diffractive 2 meson prod.
- EIC software group is doing tutorial on June 24 (JLab UM): Bluejeans

Sharing/storing of MC output and input files

Wiki-page template at: https://wiki.bnl.gov/eicug/index.php/Yellow_Report_Physics_Common#Kinematic_coverage_files

Please provide:

- ✔ Species and energies used
- ✔ Generator used (location if available)
- ✔ Generator input file
- ✔ ROOT file with tree to produce plots
- ✔ Scripts to produce kinematic plots
- ✔ Contact name
- ✔ Short summary of main observations towards detector requirements

Kinematic coverage files

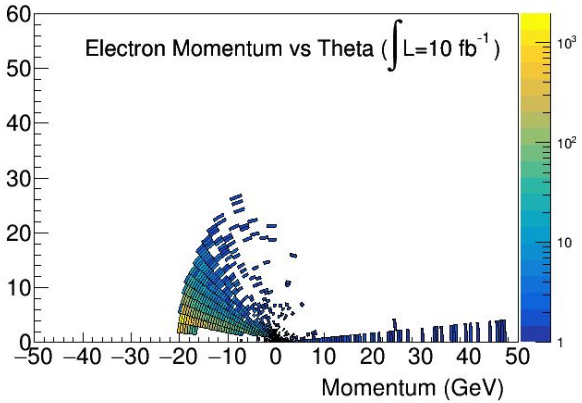
This section summarizes the kinematics studies of the XXX working group. We have simulated the following processes:

My favorite physics process 1

- Species and energies used: 20 GeV electrons on 250 GeV protons
- Generator used: pythiaeRHIC (/cvmfs/eic.opensciencegrid.org/x8664_sl7/MCEG/releases/env/pro/bin/pythiaeRHIC)
- Generator input file: input.data.ep_hiQ2.20x250.small
- ROOT file containing a small tree of simulated data (only the variables required for the plot): ep_hiQ2.20x250.small.root

Electron coverage

- Script to generate the plot



Plot description

This plot illustrates the following requirements for electron detection:

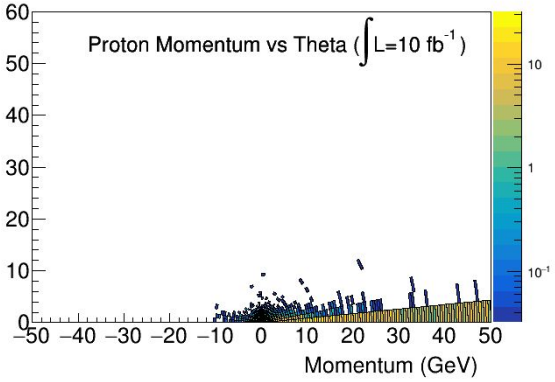
- Comment 1
- Comment 2

Proton coverage

- Script to generate the plot

Proton coverage

- Script to generate the plot

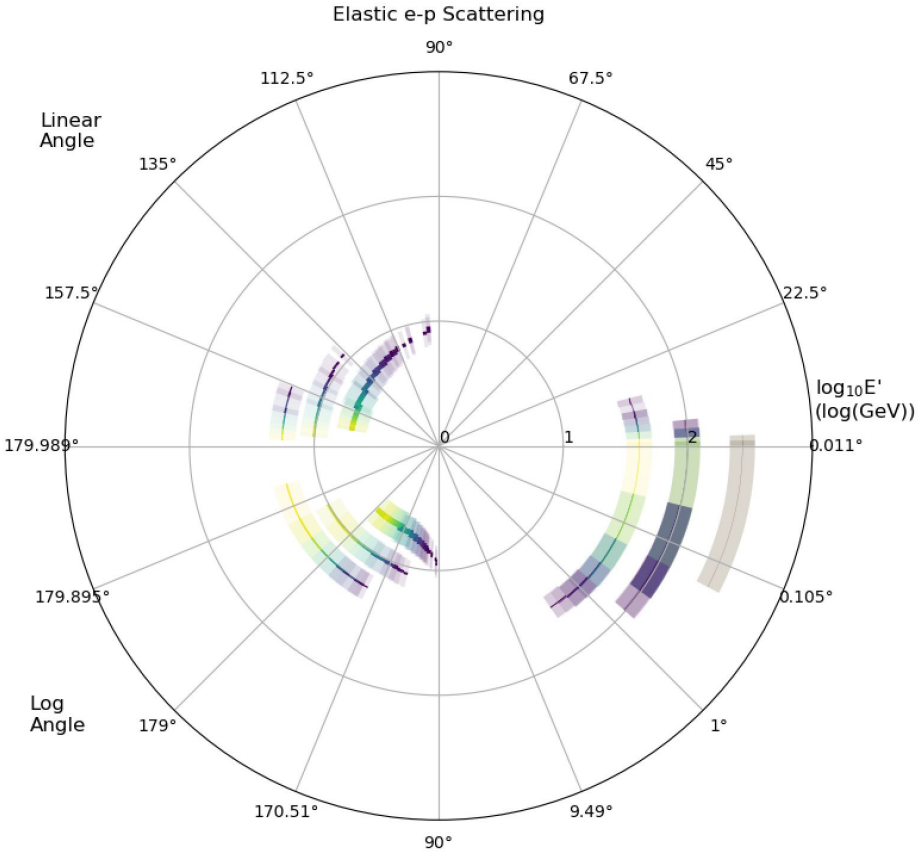


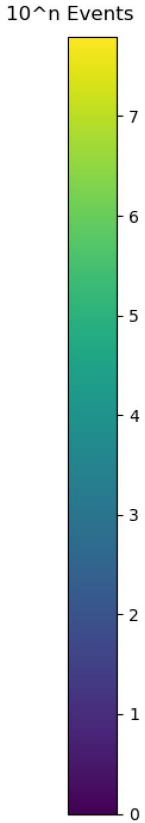
Plot description

This plot illustrates the following requirements for proton detection:

- Comment 1
- Comment 2

Visualisation: plot template by Ellie Long





Bottom hemisphere has scale better suited for far-forward region