

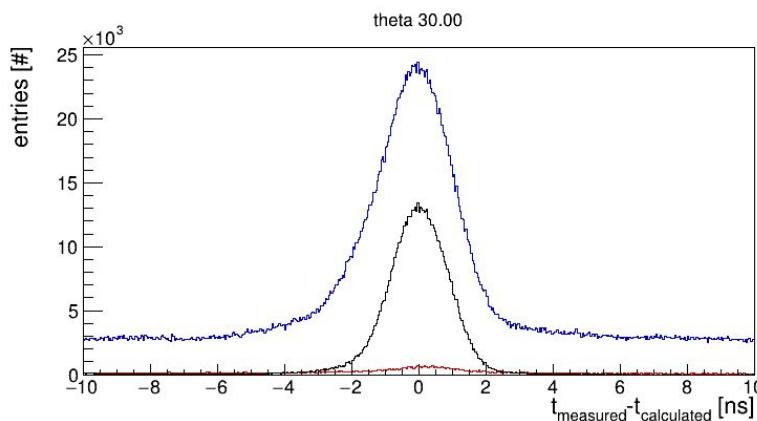
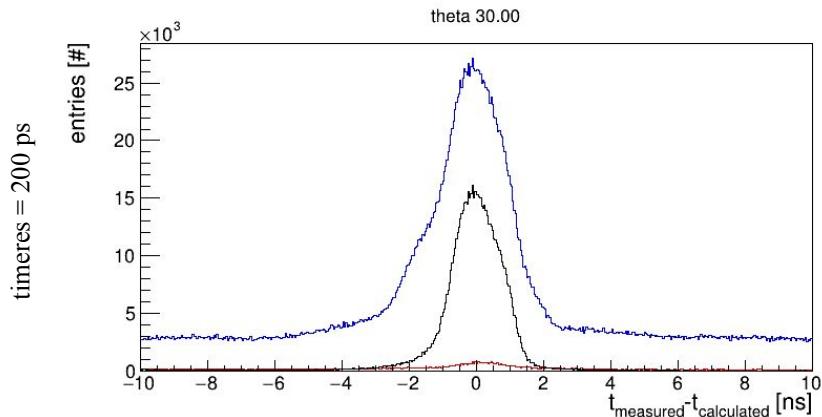
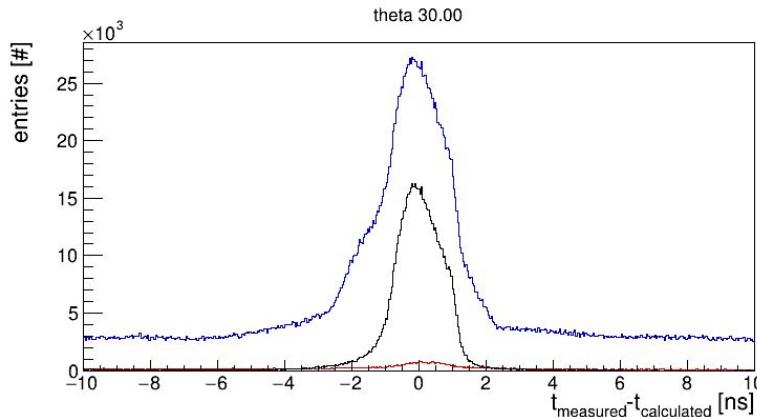
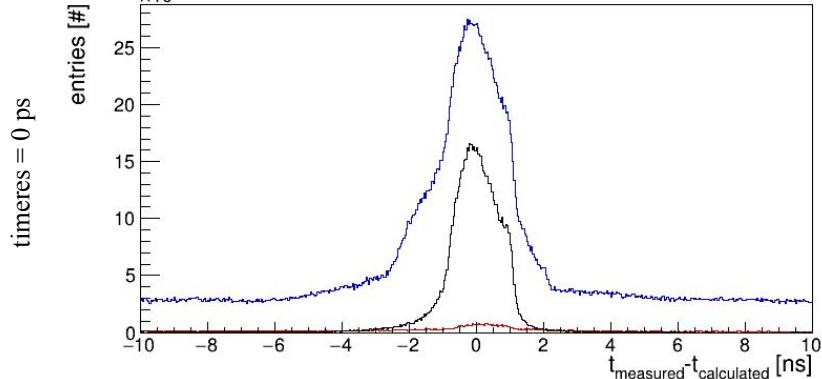
Nuclear Physics Group Meeting 6/28

Week 5 Recap

Jenna Lawson - Dr. Greg Kalicy - Imran Hossain

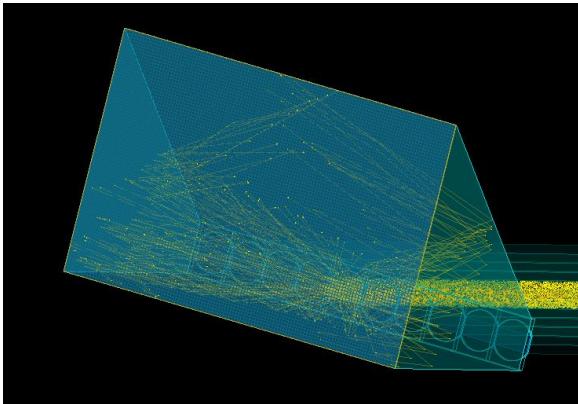
- Figured out one way to add Gaussian fit statistics to the time difference plots shown last week
- Found solution to the issue with the -c 3 hit pattern display
- Visited JLab and took a tour of Hall D
- Attended various meetings related to aspects of the EIC project as a whole

Varying Time Resolution (30°)

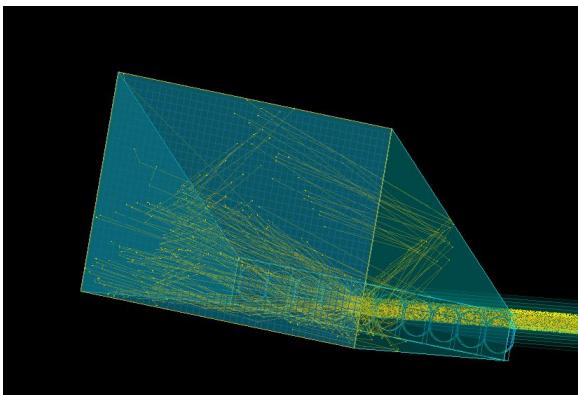


-c 3 Event Display with Varying Pixel Sizes (Polar Angle = 30°)

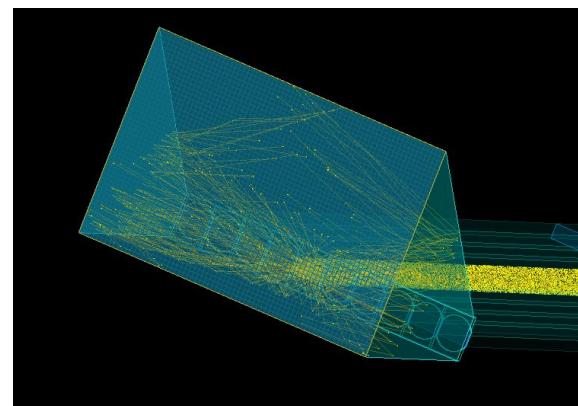
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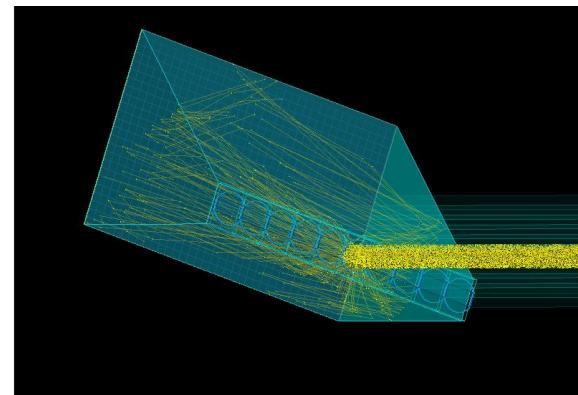
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pixel size = 5 mm

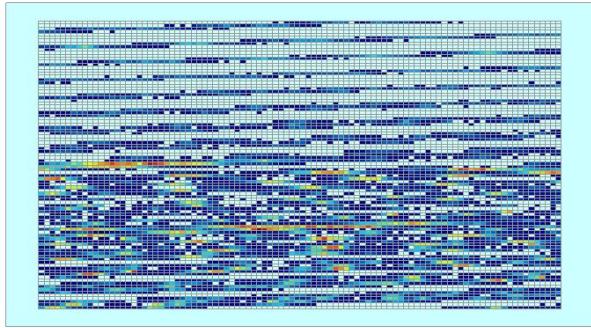


pixel size = 10 mm

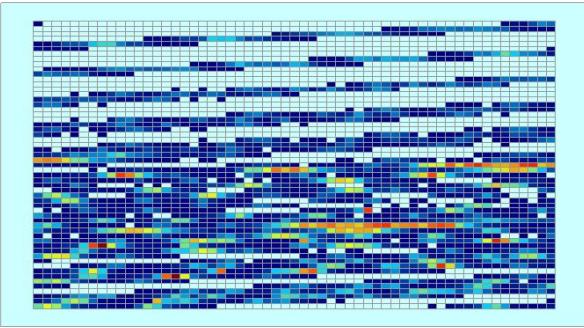


-c 3 Hit Pattern with Varying Pixel Sizes (Polar Angle = 30°)

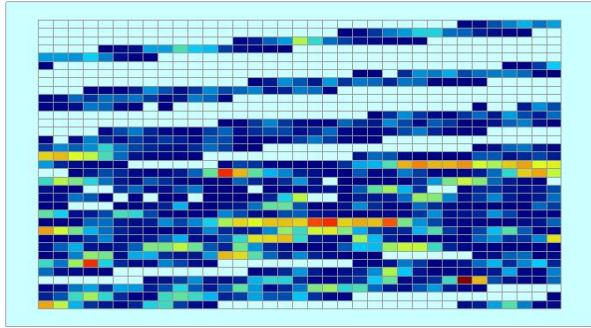
pixel size = 3 mm



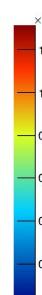
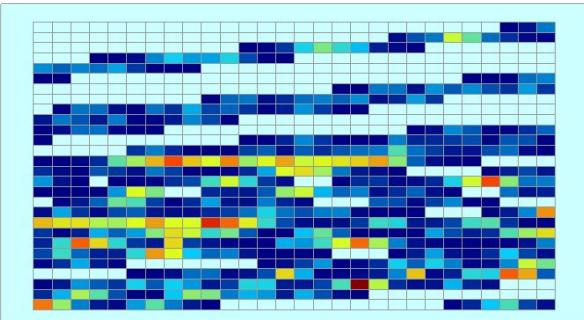
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pixel size = 8 mm



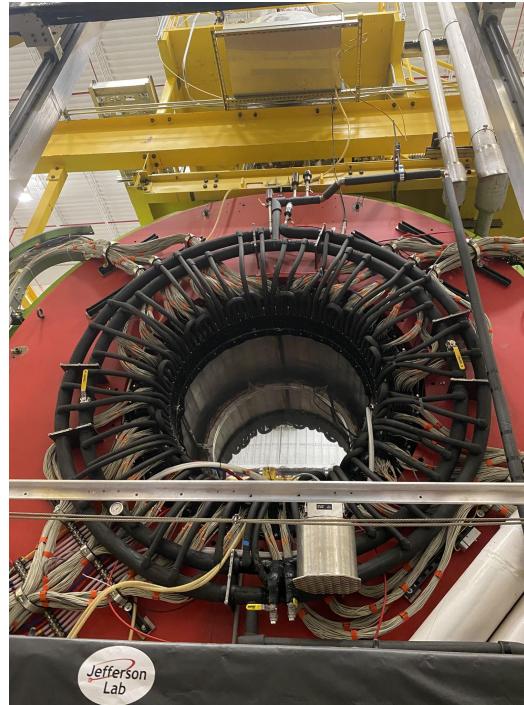
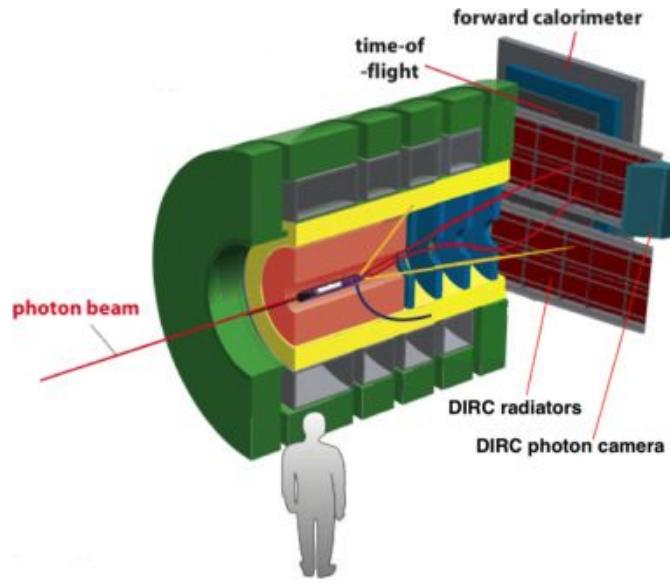
pixel size = 10 mm



Updates for -c 3

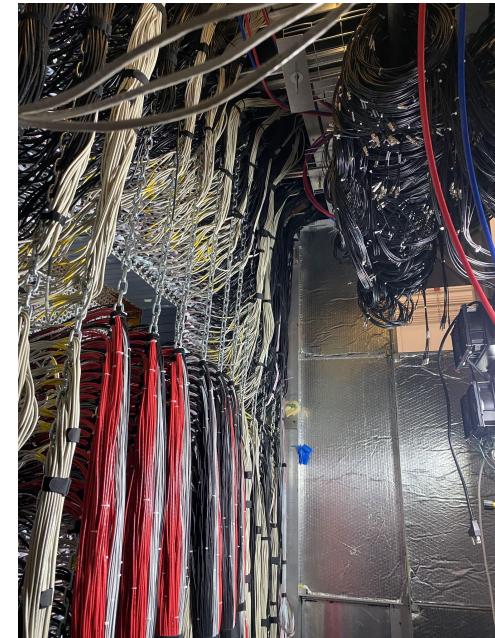
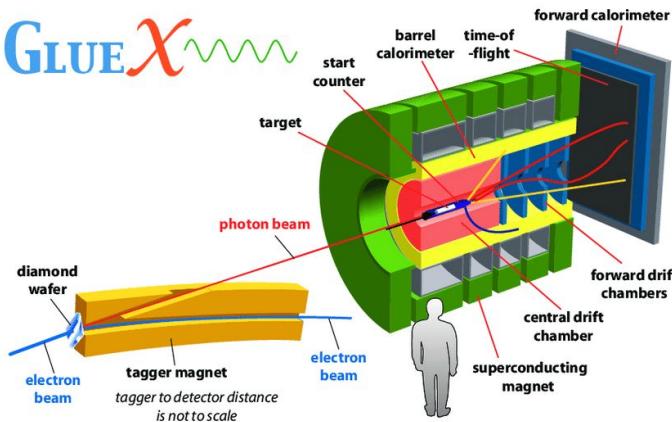
- After a meeting with Dr. Kalicy on Wednesday, we figured out how to manually draw the hit pattern for -c 3 using ROOT
- Potential to draw hit pattern using wavelength, time of arrival, prism path, etc. as a color scale
- Unfortunately, there are no simulation images until next week when I'm back at CUA

Hall D Tour

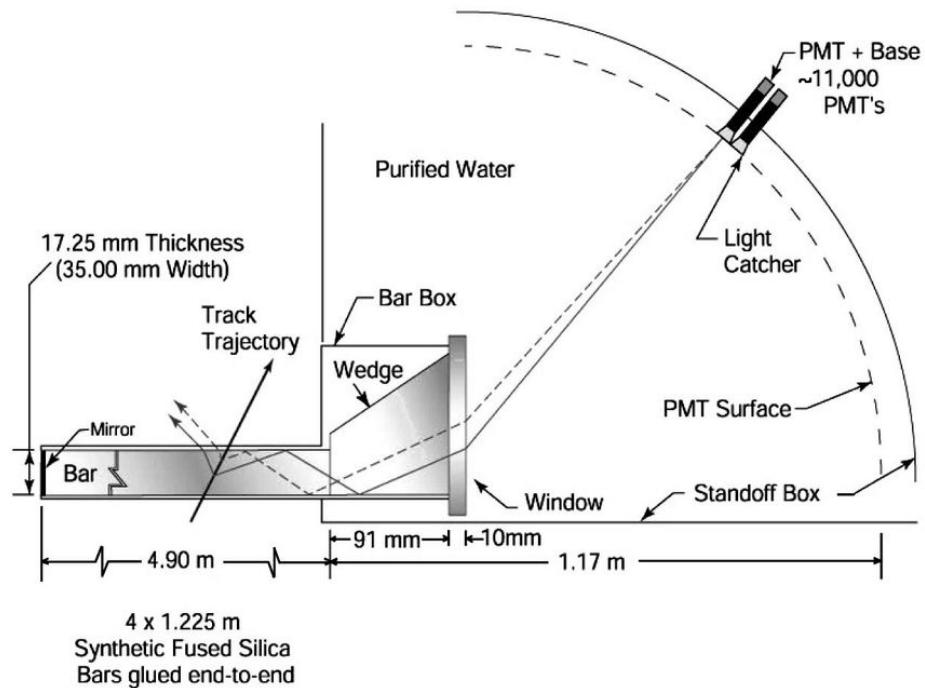


Hall D Tour

GLUE χ



BaBar Bar



- Visiting Old Dominion University this afternoon to see a laser lab set-up
- Create hit patterns for -c 3 and play with different modes of manually plotting
- Work on optimizing adding Gaussian fits to the time difference plots