

# EEEMCal simulation updates

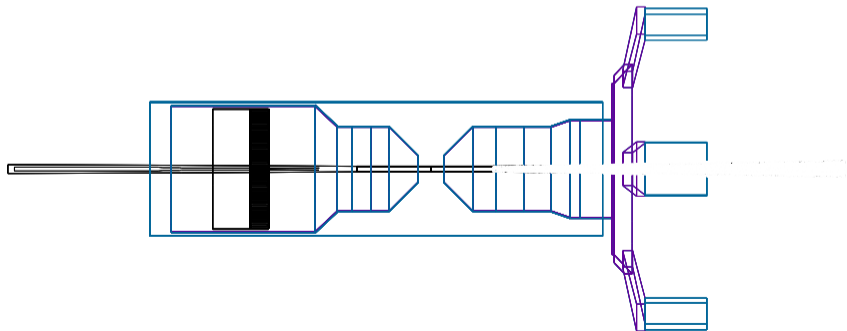
Dmitry Kalinkin

March 29th, 2024

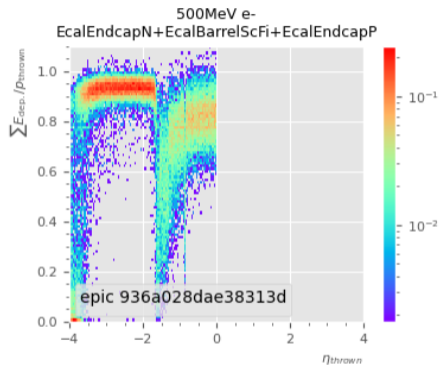
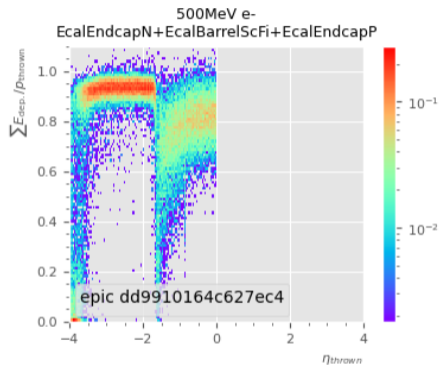
Gap

## Services implementation

- ▶ Work by Wouter on services <https://github.com/eic/epic/pull/661> mostly ready (sans fixing DRICH overlaps)

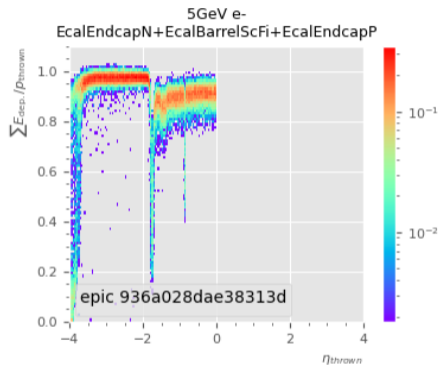
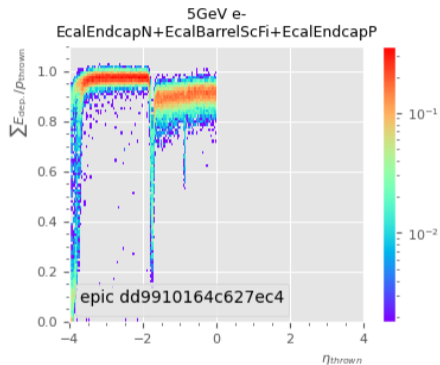


# Total energy deposition vs $\eta$



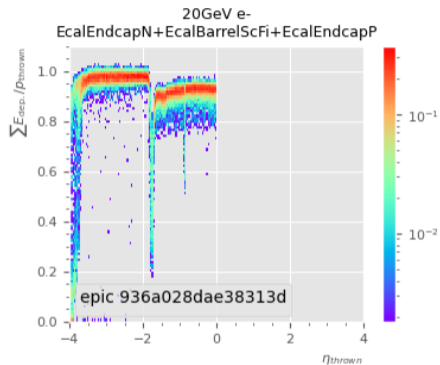
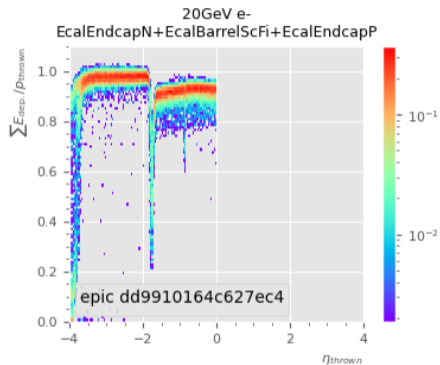
Left: nominal, Right: with services from  
<https://github.com/eic/epic/pull/661>

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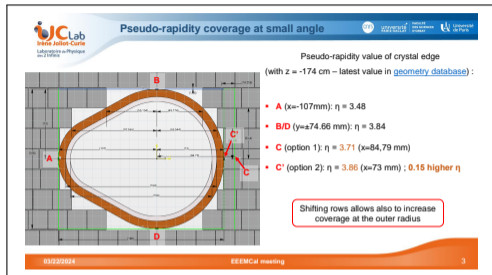
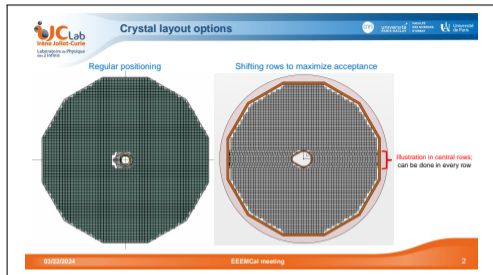
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# Cell staggering

# Slides from Carlos



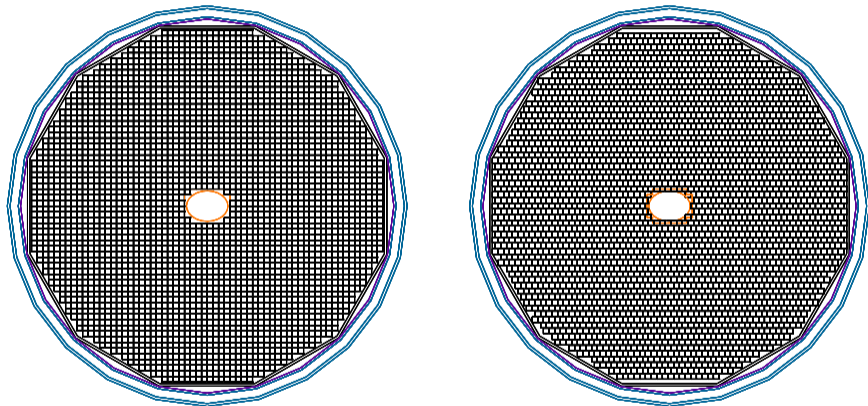
## Notes

- ▶ Vertical size: 6 cells on the left, 7 cells centered on the right
  - ▶ Left drawing shows beamline, right picture shows copper “collar”?
  - ▶ Horizontal staggering is uneven
- Some may think that analysis can be easily done with ML. It's easy to construct unbiased estimator, but one needs correct priors. A diligent analyzer would have to study 7 special rows.



## Simulation geometry

Left: current, Right: 50% staggering (a “strawman” suggestion)



### Notes

- ▶ Can we get the CAD drawing for the “collar”, if that’s final?