EEEMCal: gap study update

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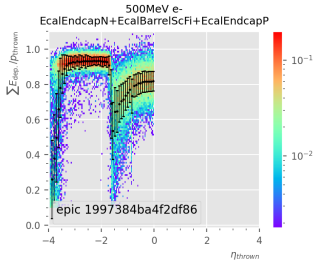
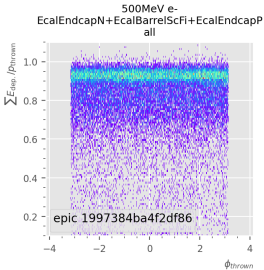
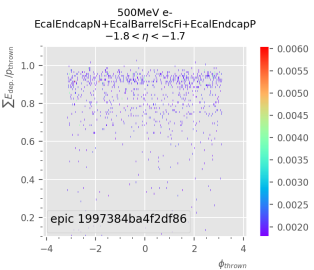
Azimuthal slice for E/p

500 MeV e^-, epic 1997384b

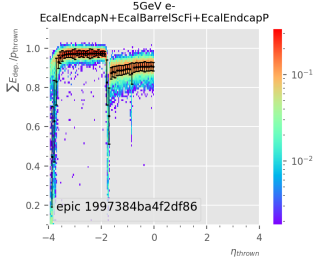


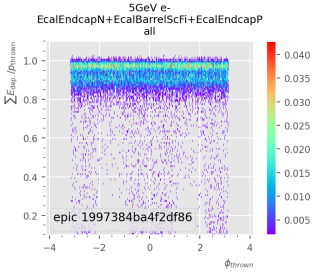


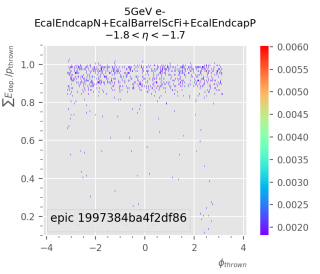


Azimuthal slice for E/p

5 GeV e^-, epic 1997384b

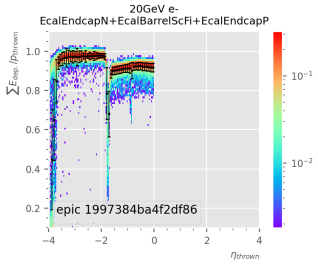


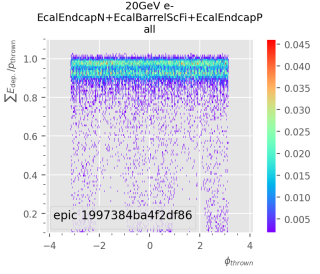


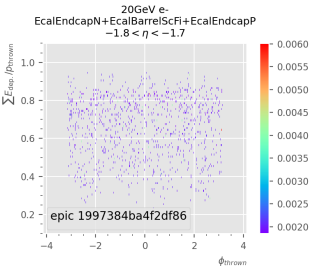


Azimuthal slice for E/p

20 GeV e^-, epic 1997384b



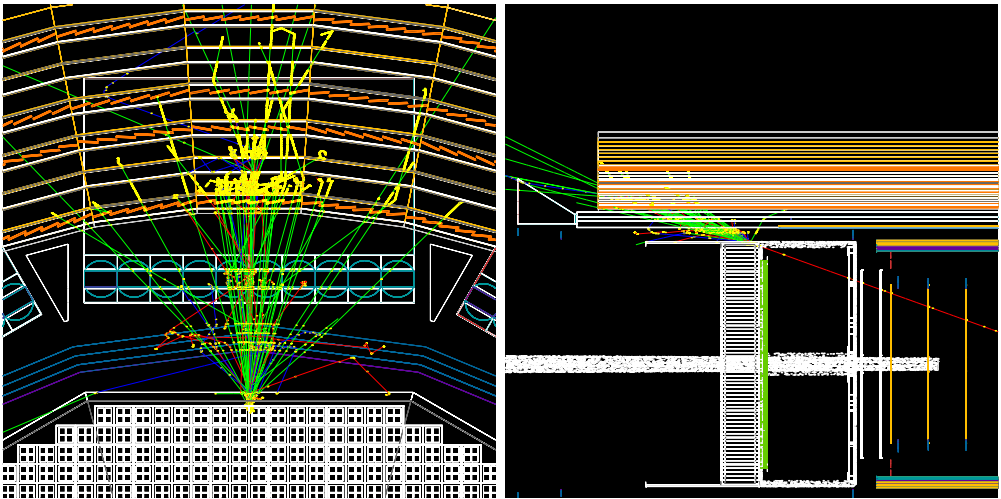




The question regarding the origin of the gap energy loss remains open. Following slides show event display for electrons aimed at the gap.

Event display

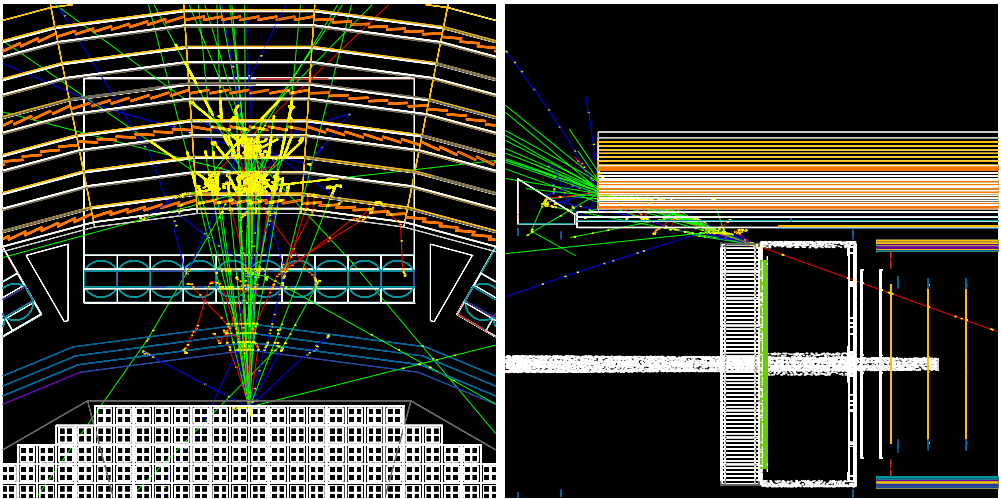
5 GeV e^- at $\eta = -1.75$, epic 24.05.0



e-,e+,proton,γ,neutron,π, interaction vertices are also marked in yellow

Event display

5 GeV e^- at $\eta = -1.75$, epic 24.05.0 with steel support removed



e-,e+,proton,γ,neutron,π, interaction vertices are also marked in yellow

Conclusion

- Looks like there is no substantial modulation in φ
- For tracks at $\eta \approx -1.75$ there is nothing for EEEMCal to measure, at its current position