Efficiency compare before and after cosmic removal



- 4 runs
- Cosmic removal significantly reduced the efficiency slope
- Need more statistics





aggressive dead area cut





Next step: study x-y sectors, instead of radial sectors, Isolate each HyCal module

HyCal cluster 2d distribution





2GeV remove dead area















0.85

0

HyCal ep yield over phi























Yield ratio before and after efficiency correction



- For each phi bin, get yield ratio for each theta bin
- For each phi bin, correct GEM efficiency for yield, get yield ratio for each theta bin
- Using e-p events
- When GEM efficiency is low, see a higher yield from HyCal















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