

8/10/21 Updates on Upgraded sPHENIX Spacial in ECCE/Sim

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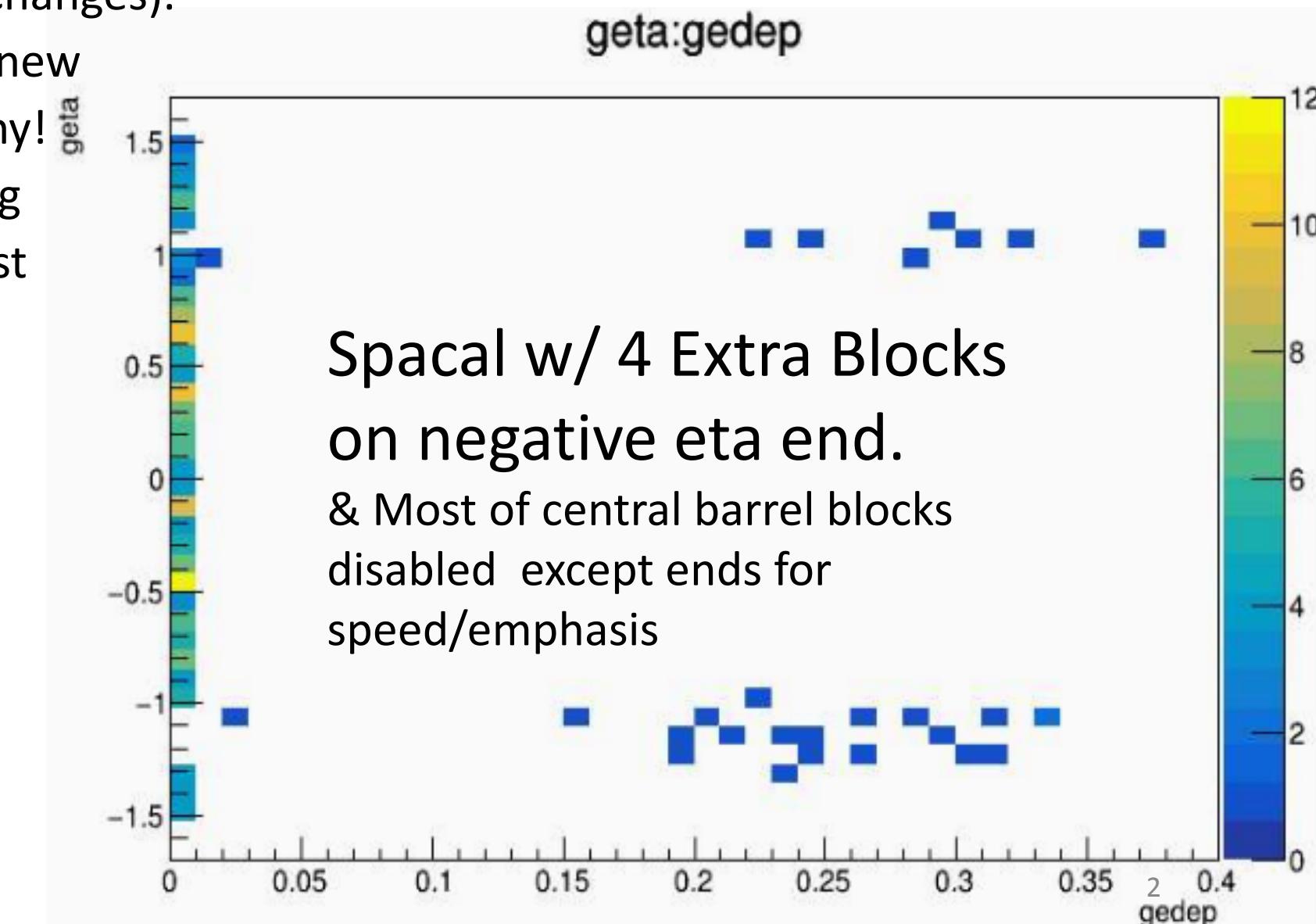
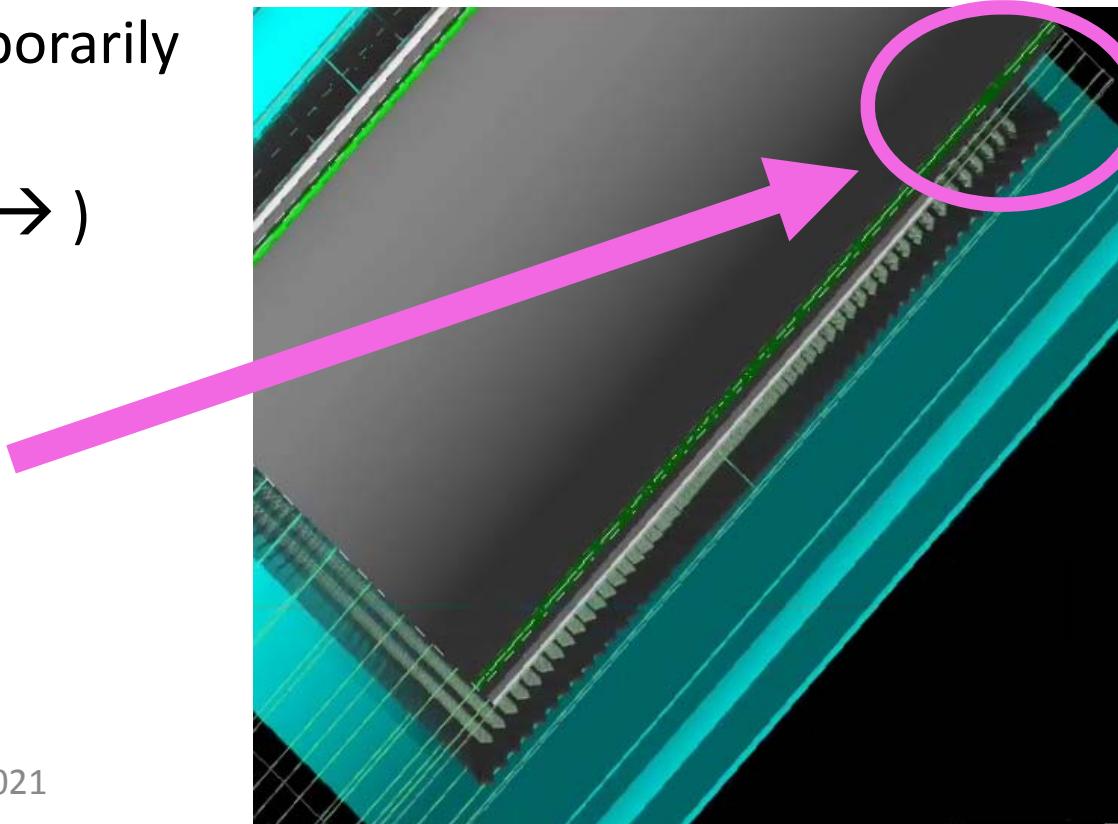
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ECCE Calorimetry WG Meeting



Adding Extra Blocks – Now Accomplished

- I could not focus these efforts for a few weeks in ~July (vacation, sPHENIX duties,..., other ECCE, student Master's thesis....)
- But I did slowly make progress and I have finally finished the addition of the extra blocks at negative eta.
- Since last time, added **4** total extra blocks on end, instead of only 2, made asymmetric ie put extra blocks only in negative eta. (Positive eta left with no changes).
- Took a bit of slow fighting getting fibers within new towers, parent LV's extended, digi map, etc....many!
- Debug cycle slow but sped up a bit by excluding fiber placements in central blocks; only ends (just temporarily LH- plot →)



Left to do

- Other changes (improved light sampling) were already done, this was my last step...
- Pretty much had it fully working with 2 extra towers, still need to update digitization map for 4 extra towers.
- This and clean up, preparing pull request a ~couple days away?
- From talking to Craig and also looking at plot hard to tell: how many blocks do we want? Check actual gap in reco eta?
- I already increased from 2 to 4 so increasing shouldn't be hard
 - Started already for 8, but didn't finish
 - Still if we want say 6 or 8, it probably shouldn't take more than extra another day to add those