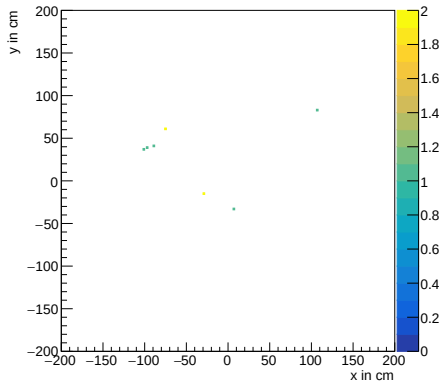
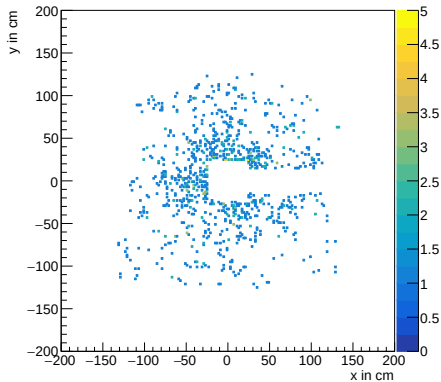
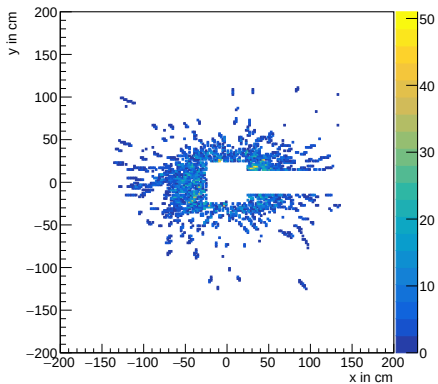
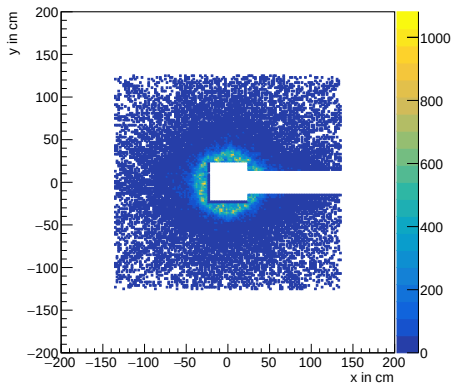


- ▶ Simulating the detector setup with read-in data from Fluka (eNuc)
- ▶ Found a bug in my code that did not place all particles from the file into the simulation
- ▶ Now have a huge time issue...simulating a single QED event now takes very ($O(s)!$) long $\rightarrow$ need to figure out how to get this faster
- ▶ For now first looking into the vetoability of pure eNuc events
- ▶ Also have a time issue with the hits in the calorimeters...is it okay to assume the hit times of each event to be the start time of that event? otherwise computing times would be taken into account and hit times do not match event times any more?

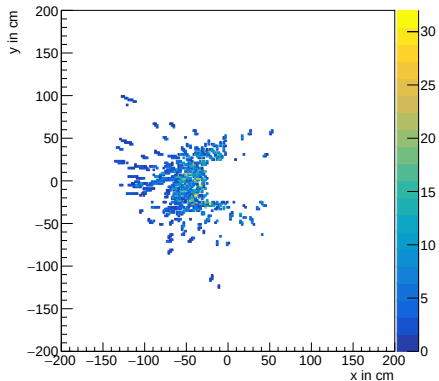
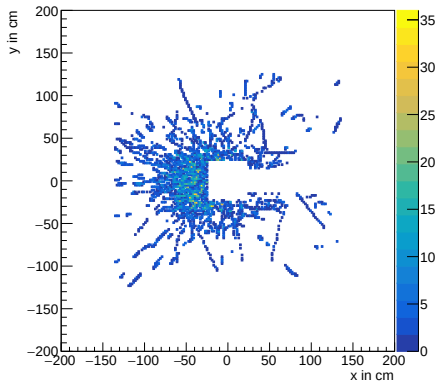
- ▶ Comparing all encountered neutrons (left) and only primary neutrons (right) in 18k events in HCal (only eNuc events)



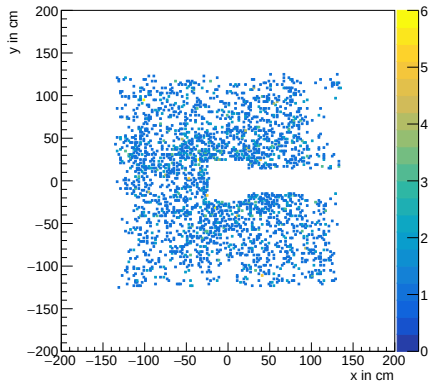
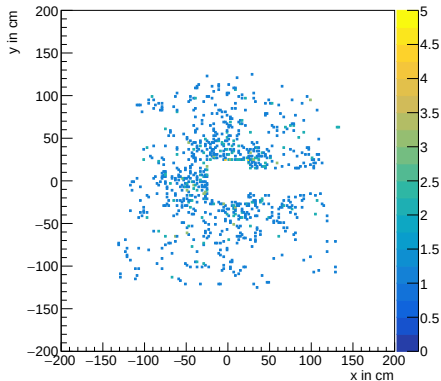
- ▶ Comparing all encountered electrons (left) and only primary electrons (right) in 18k events in HCal (only eNuc events)
- ▶ Why are there so many primary electrons? Only taking MC truth signal electrons...



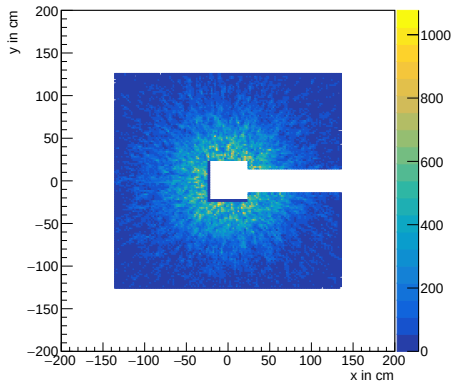
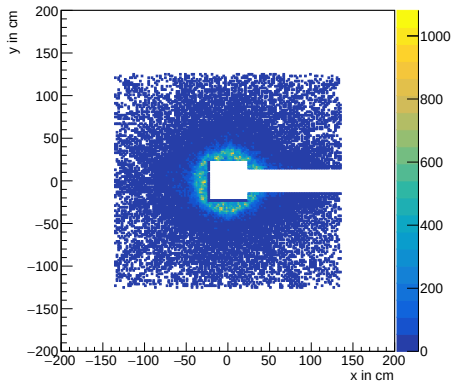
- ▶ Comparing all encountered π^+ (left) and only primary π^+ (right) in 18k events in HCal (only eNuc events)



- ▶ Comparing all encountered neutrons in 18k events in HCal with magnet (left) and without (right) (only eNuc events)



- ▶ Comparing all encountered electrons in 18k events in HCal with magnet (left) and without (right) (only eNuc events)



- ▶ Comparing all encountered π^+ in 18k events in HCal with magnet (left) and without (right) (only eNuc events)

