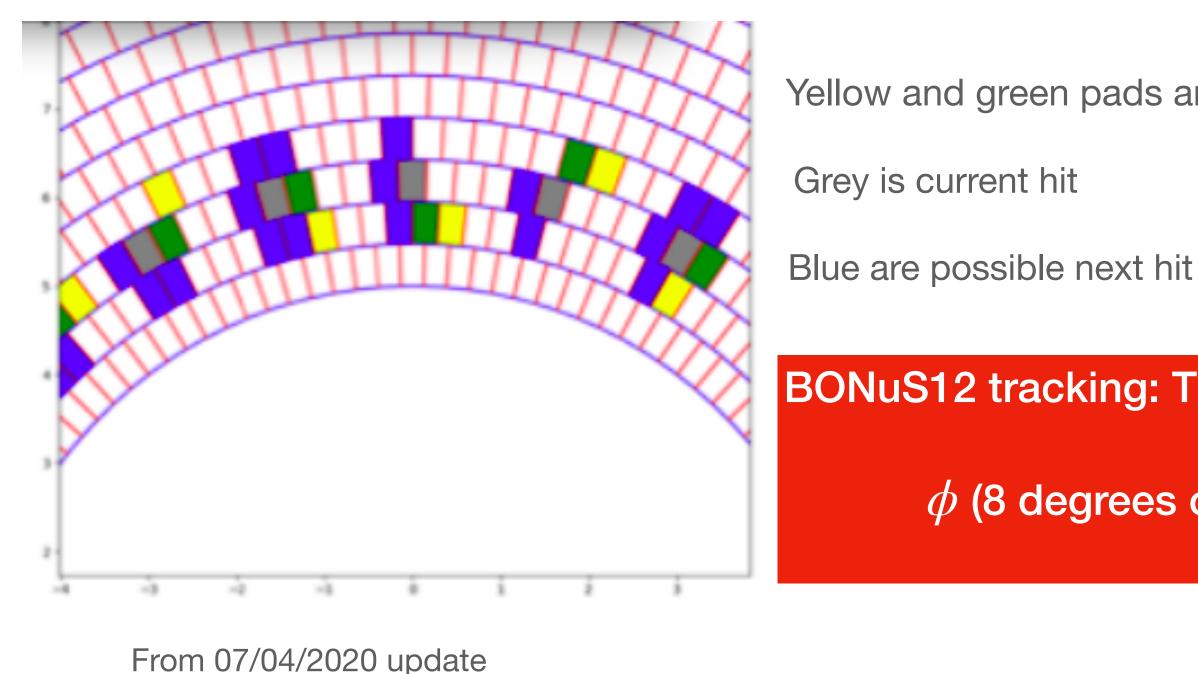
Tracking meeting update 26/09/2023 and 03/10/2023

Aruni Nadeeshani

Minutes on 26/09/2023

- Present : Dipangkar, Aruni, Carlos, Shujie



 Aruni Discussed the next hit definition improvements from Steve's code. He used mtpcroards.py script to define next possible hit and this used for his own inputs. The GEANT4 digitized input select next possible hit pad as neighboring pad.

Yellow and green pads are last two pad hit.

BONuS12 tracking: The specific criteria for defining close proximity in terms of ϕ (8 degrees or 4 pad widths), z (19 mm or nearly 5 pad lengths)





- Dipangkar and Carlos Discussed about the new proposed low field 1.5 effects on background and tracking efficiency.
- TDIS models.

Tmagnetic field simulations. We need to process this simulation to check the

Dipangkar and Carlos talked about generating the realistic data set with two

Minutes on 03/10/2023

- Present : Dipangkar, Aruni, Carlos, Shujie, Steve, Eric Fuchey
- neighboring pad.
- field.
- Dipagkar and his student tried gnn tracking scripts. Now data sets are available and they are trying to run the code.

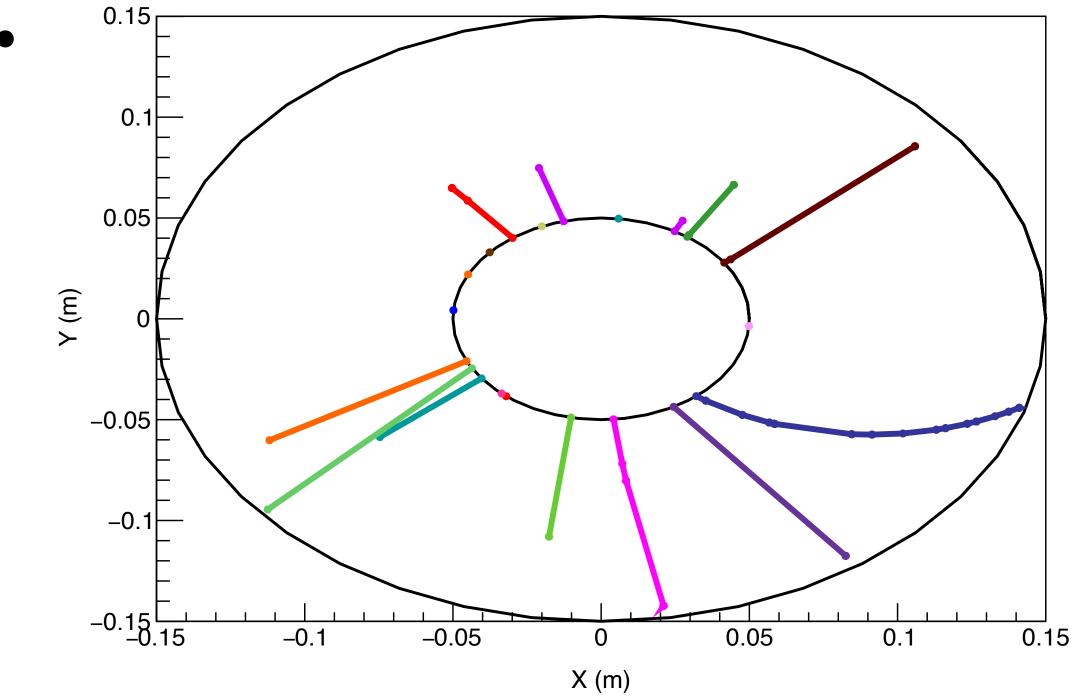
 Aruni and Steve discussed the next hit definition improvements from Steve's code. He used mtpcroards.py script to define next possible hit and this used for his own inputs. The GEANT4 digitized input select next possible hit pad as

• Steve and Eric Fuchey discussed possible simulations for 1.5 T magnetic

Event display

realistic or not.

mTPC - Hits/Chains XY



Checked the root files in /work/TDIS/4Rachel/ folder to see the data set is

Event display out put for 10 events