

# Global update

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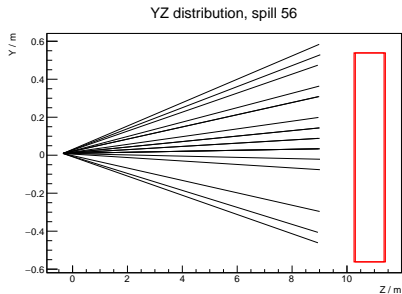
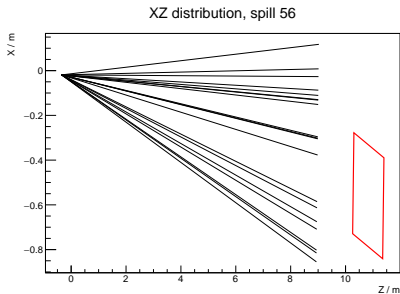
July 5, 2019

## Propaganda events

- Now have time → UToF, DToF, global spill number mapping for two of the propaganda events
- 04/09: DToF run 1110, UToF run  
Data\_2018\_9\_4\_b1\_800MeV\_4block, global spills 44415 to 44465
- 11/09: DToF runs 1288 – 1289, UToF run  
Data\_2018\_9\_11\_b1\_800MeV\_4block\_bendM5mm, global spills 80846 to 80999
- These are on the sjones\_tof branch in s3RayTrace\_prop1.cfg and s3RayTrace\_prop2.cfg
- Third propaganda event is on 08/13, not sure if spill DB goes back that far

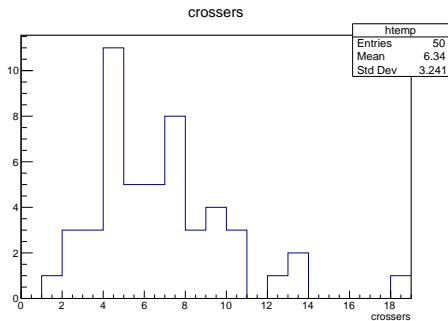
## s3RayTrace

- Put together new program on the same branch that uses ray tracing between *S2* and *S3* to figure out if protons go through TPC
- Hard to do this with previous `tofHitMatch` program, so few protons make it to *S4*, only matching MIPs



## Propaganda event 1

- Below is the number of protons passing through the TPC for each spill in the propaganda region on 04/09
- This assumes that they make it through the TPC front wall



- Is there a smaller region we want to focus on or an energy range that we want to cut on?