

Backward HCal

Radiation dose check

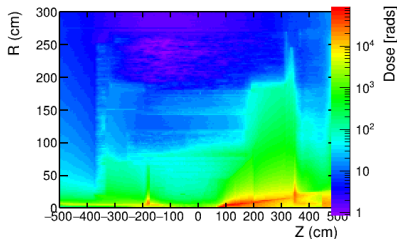
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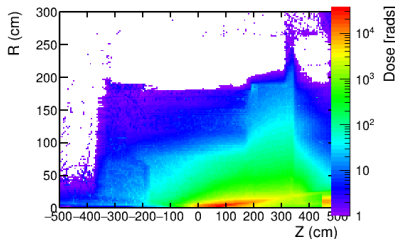
Technical Integration Coordination Meeting 11.12.2023



EM dose



Hadronic dose



- Looked at radiation studies here:
https://wiki.bnl.gov/EPIC/index.php?title=Radiation_Doses
- Took root files and scaled to 10 years:
<https://bnlbox.sdcc.bnl.gov/index.php/s/2sxywCQQgHP4ESn>
- Integrated doses between $-440 < z < -395$ cm
- EM dose 26.3k rad, hadronic dose 0.897k rad
- May need to re-run simulations with updated geometry

- Need to study SiPM radiation hardness
 - Will be studied by the LFHCAL group
 - Higher dose in the forward than in backward direction - should be OK
- Same for HGCROC FEBs