All-Si Tracker material-scan



Rey Cruz-Torres

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Barrel

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AI Support Structure

Barrel



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Geometry implemented by Ernst and Yue Shi in ElCroot and loaded into Fun4All

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* These are labels from the geometry file







Questions

- 1. What are the ears right above the spikes at $\eta = \pm 1.1$?
- 2. Does the barrel coverage make sense?
- 3. Why is there material in the forward region of the backwardlabeled detector part?



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Aluminum Support Structure Contribution



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2. Does the barrel coverage make sense?







3. Why is there material in the forward region of the backwardlabeled detector part?





Why do we see material both in the forward and backward regions for the forward-label part of the detector?





Summary and Conclusions

- 1. What are the ears right above the spikes at $\eta = \pm 1.1$? The cylindrical part of the Aluminum support structure
- 2. Does the barrel coverage make sense? Material scan does agree with detector geometry
- 3. Why is there material in the forward region of the backwardlabeled detector part?

forward-labeled part = forward Al + backward disks backward-labeled part = backward Al + forward disks