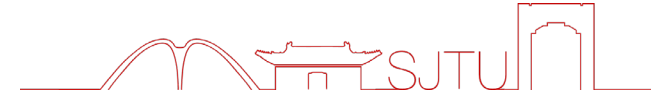




上海交通大学
SHANGHAI JIAO TONG UNIVERSITY



End-Cap of CEPC AHCAL

A faint, light-colored line drawing of a traditional Chinese gate (paifang) with a curved roof, pillars, and decorative elements, serving as a background for the text.

Ji-Yuan CHEN

5 July 2024

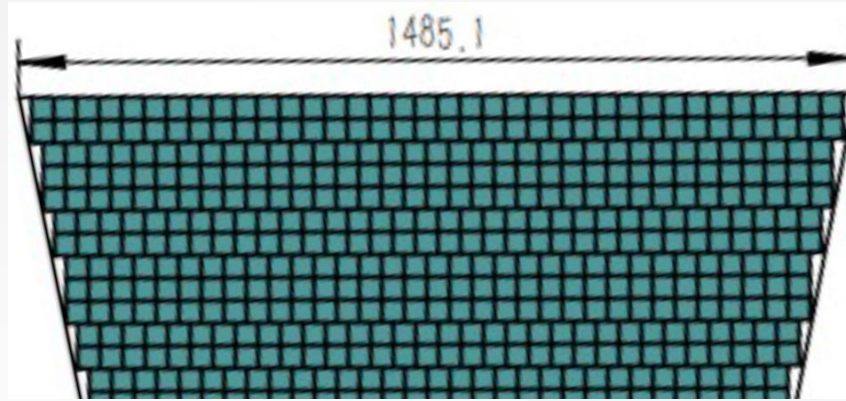


Structure of End-Cap AHCAL



⊗ Dimensions:

- Inner radius: 400 mm;
- Outer radius: 3455 mm;
- Thickness: 1315 mm;
- 74 rows of cells.

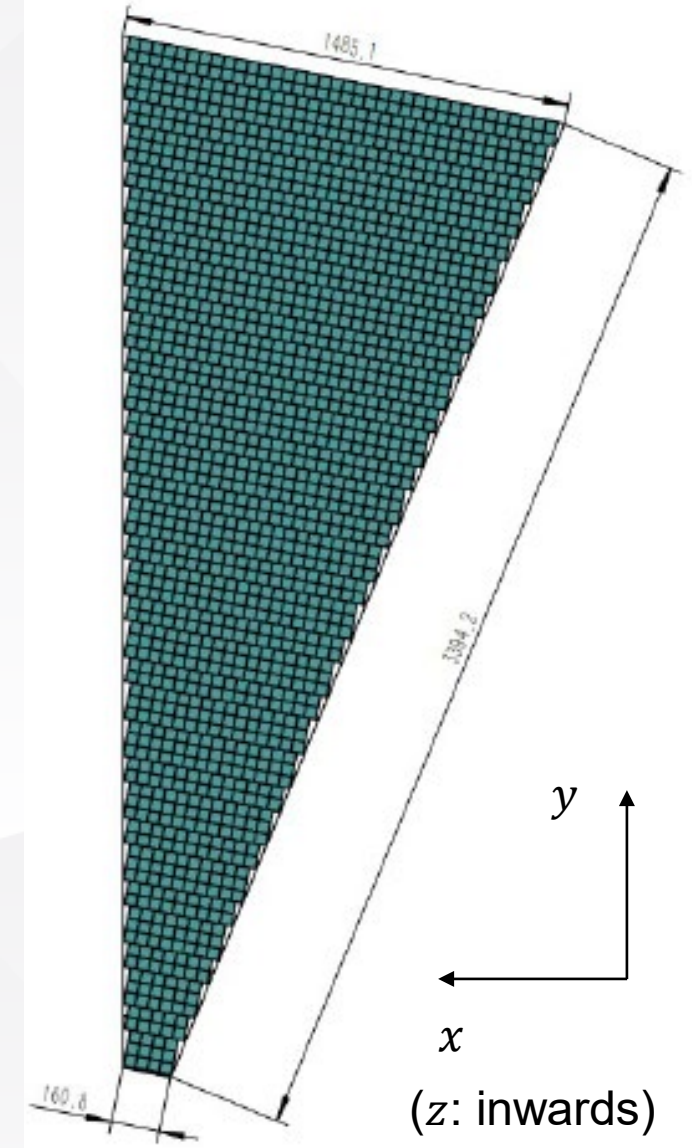


⊗ Normal cell size: $40.3 \times 40.3 \times 27.2 \text{ mm}^3$.



Cassette, 2 mm
Scintillator + ESR, 3.2 mm
PCB + components, 3.2 mm
Cassette, 2 mm

Absorber, 16.8 mm
(Not to-scale)





Statistics of Odd-Shaped Cells



5 types of odd-shaped cells increase the occupancy per row to more than 96%.

