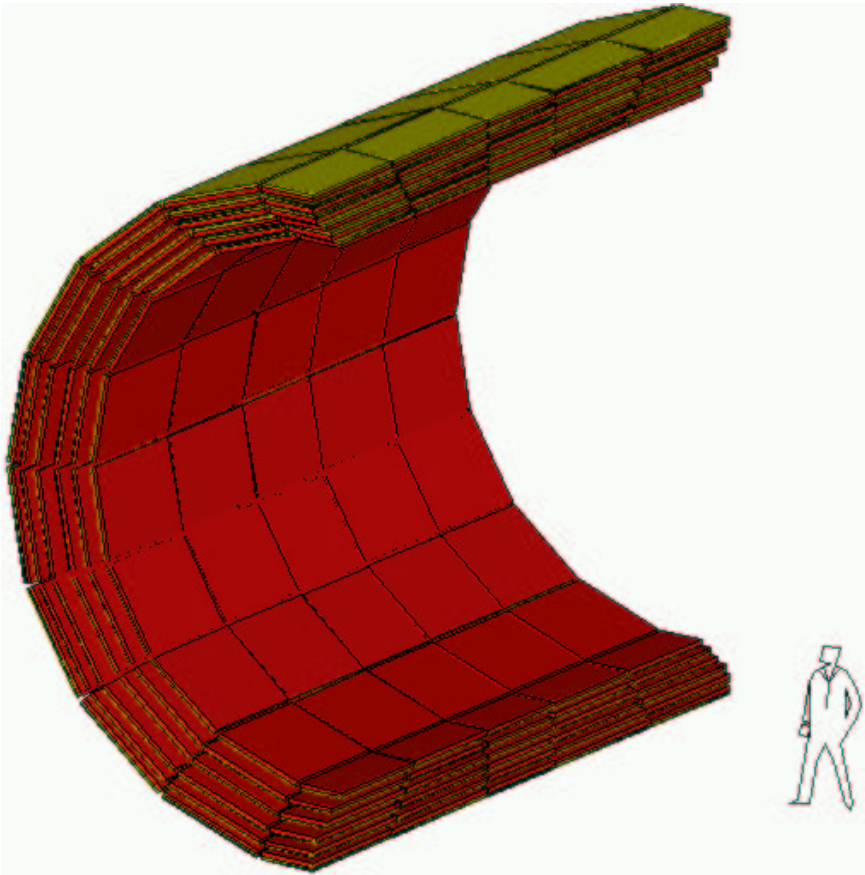


ALICE TRD – Some characteristics

Aim: Pion Rejection Power ≥ 100 ($p > 2-3$ GeV/c)



- Radial position: 2.9 to 3.7 m, Length: max. 7.3 m
- 540 subdetectors: $18 (\phi) \times 5 (z) \times 6$ (layers)
- Biggest module: $1.22 \times 1.56 \text{ m}^2$
- Total area: up to 800 m^2 ; Gas volume: $\sim 28 \text{ m}^3$
- Total material (in radial direction): $X/X_0 = 10.2 \%$
- 1.2 million channels: PA/Sh + FADC (15-30 timebins)
- Occupancy: up to 15% (full simulation, incl. secondaries)

ALICE TRD Proposal, CERN/LHCC 99-13, <http://www.gsi.de/~alice>