

ALICE TRD at a glance

Goal: pion rejection factor of 100, fast trigger for high- p_t electrons and jets

Parameters:

- 540 modules ($18 \times 5 \times 6$)
- Total area: 767 m²
- Gas volume: 27 m³, Xe, CO₂(15%)
- 1.2 mil. readout chan. ($\simeq 20$ M pixels)
- 15 TB/s on-detector bandwidth
- Rad. thickness X/X_0 : $\sim 22\%$
- Total weight: 21 tons
- Total power consumption: 70 kW
- 60 persons, 10 institutions

