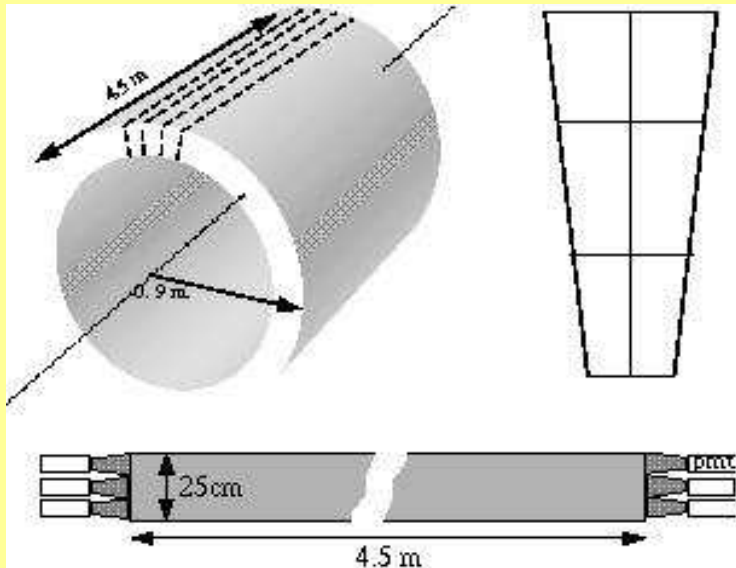


Calorimetry



Barrel Calorimeter/Time of Flight

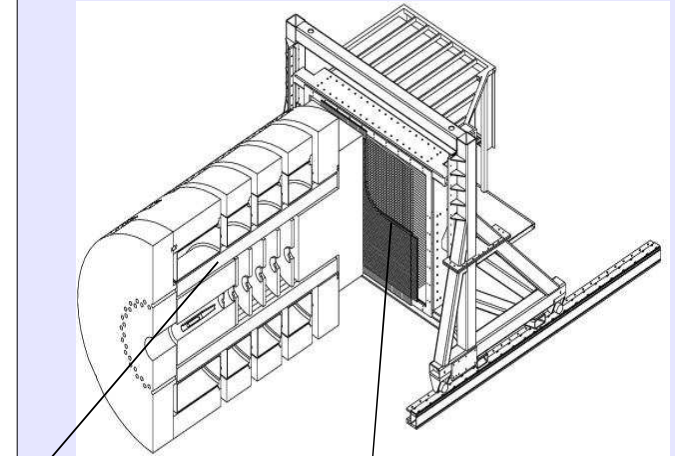
Pb–Scintillating Fiber Detector

Resolution: $\sigma/E = 4.4\%/\sqrt{E}$

Low E_γ Threshold ($\sim 20\text{MeV}$)

250ps or better Timing Resolution

Inexpensive Technology!



Pb–Glass Calorimeter

2200 15XL Crystals (4cmx4cm)

Resolution: $\sigma/E = 2 + 5\%/\sqrt{E}$

$\sim 150\text{MeV } E_\gamma$ Threshold

Existing Detector at JLAB