

ATHENA EEEMCAL:

$z = -195\text{cm}$
 $R_{\text{in}} = 11\text{ cm (eta } \sim -3.5) = R_{\text{min_PWO}}$
 $R_{\text{max_PWO}} = 53\text{cm (eta } \sim 2) = R_{\text{min_Glass}}$
 $R_{\text{max_total}} = 100\text{ cm (eta } \sim 1.4) = R_{\text{max_Glass}}$

Modules PWO = ~ 2200 ($2 \times 2 \times 20\text{ cm}^3$)
Modules Glass = ~ 1400 ($4 \times 4 \times 40\text{ cm}^3$)
Total weight: $\sim 2400\text{ kg}$

All PWO for this volume: 7600 PWO modules
Weight $\sim 5000\text{ kg}$

Cost estimates:

Hybrid $\sim 6.5\text{M}\$$
All PWO $\sim 14\text{M}\$$
Read-out $\sim 1.5\text{M}\$$

Current DD4HEP version

