

# RICH GEMC SIMULATIONS

Contalbrigo Marco & Luciano Pappalardo  
& Luca Barion  
INFN Ferrara

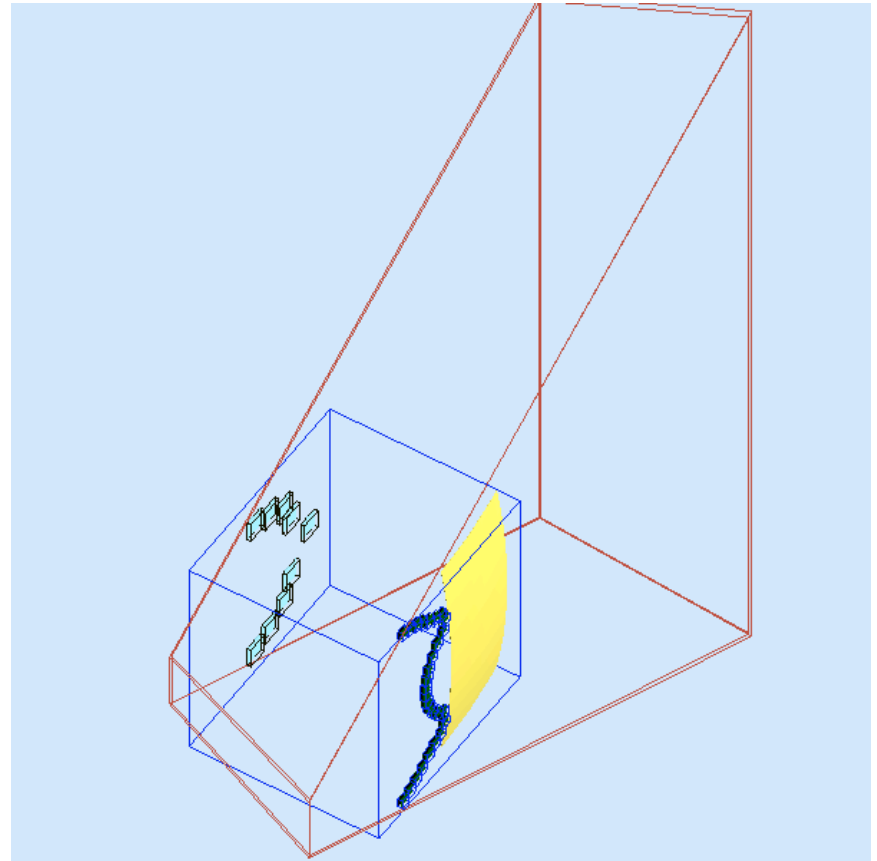
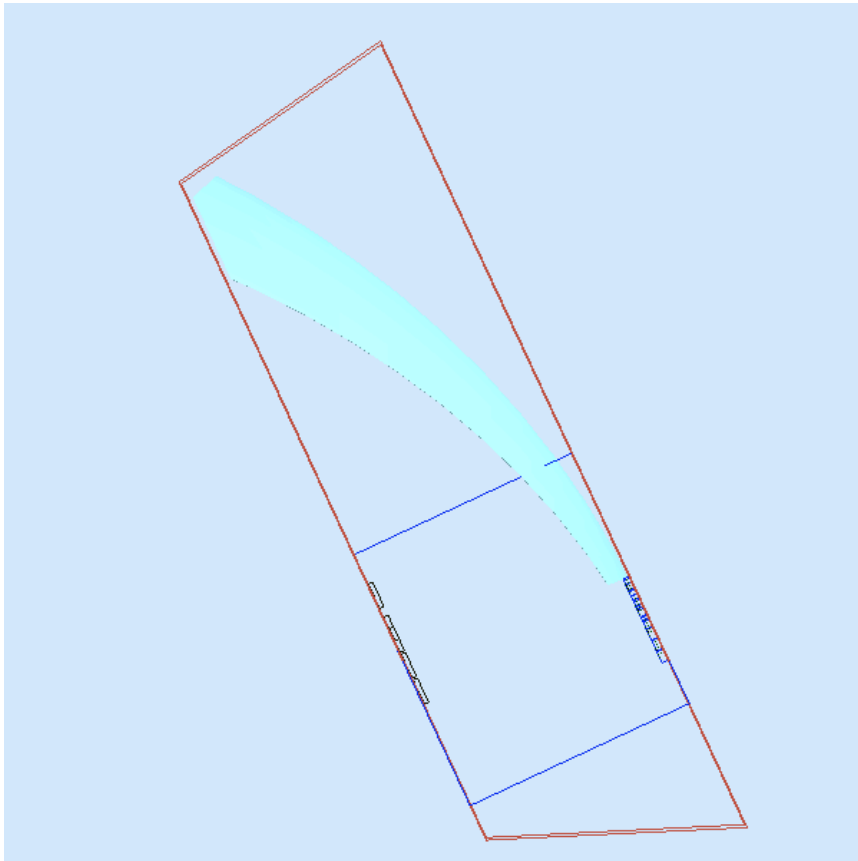
---

Rich Meeting, 30 March 2012

---

# LH performances in 2D

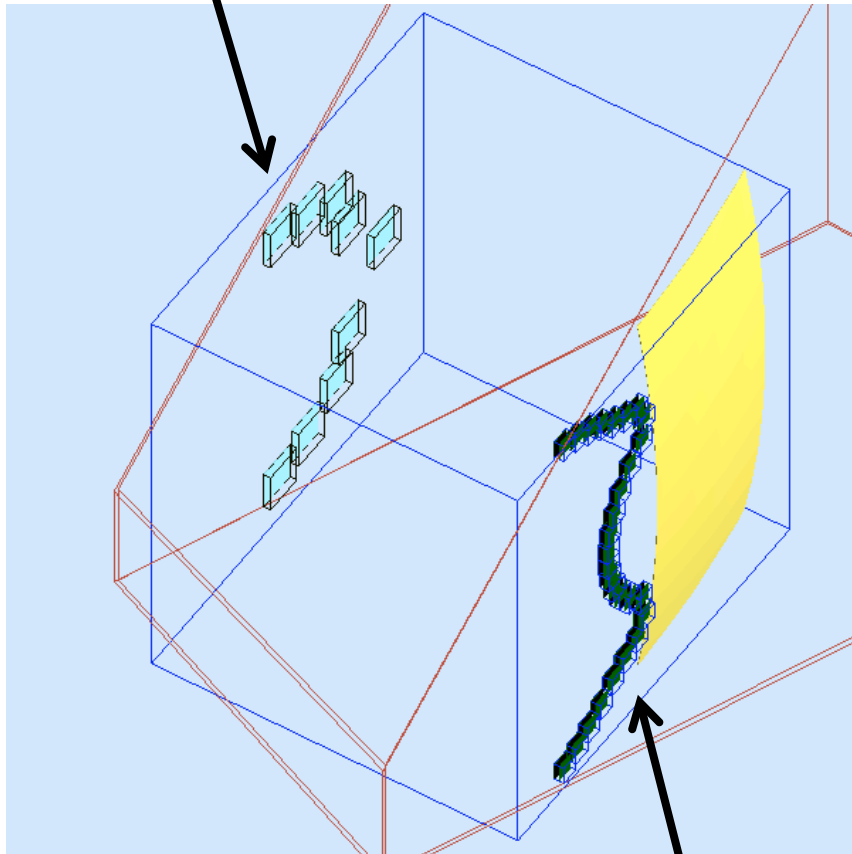
Geometry as close as possible to the CLAS12 RICH design



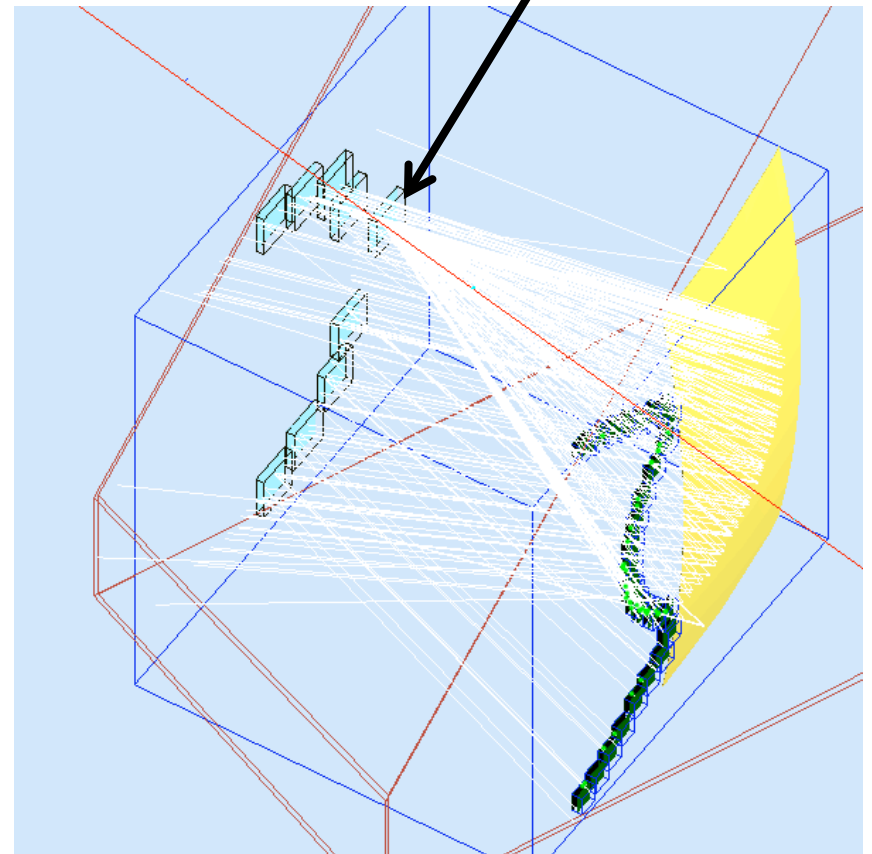
Same gap  
Same mirror (portion of)

# LH performances in 2D

8 Plane mirror + aerogel sandwiches



1 thick radiator



28 MA-PMTs

# LH response at 6 GeV/c $14^\circ$

30 % photon hits from reflect light

If  $\sim 12$  Np.e. for full direct ring

$\sim 2$  hits for reflected light

Enough to see the ring,  
but to measure efficiency ?

Potential conflict:  
Thick radiator spoil direct ring  
Thin radiator spoil reflected ring

