RICH GEMC GEOMETRY

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Rich Meeting, 14 February 2012

Standard set-up

Geometry:

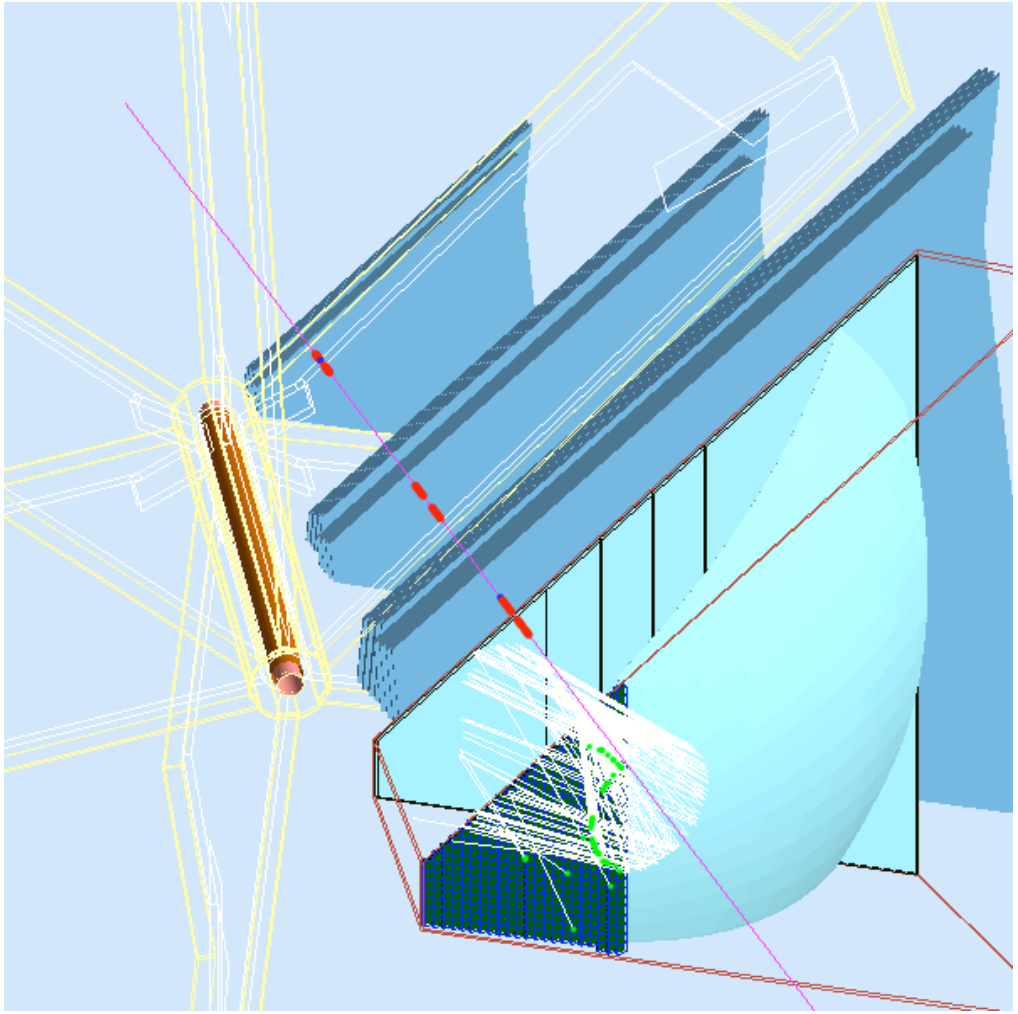
rich_build_radtrap_mirror35_default.pl

On the Jlab GEMC database

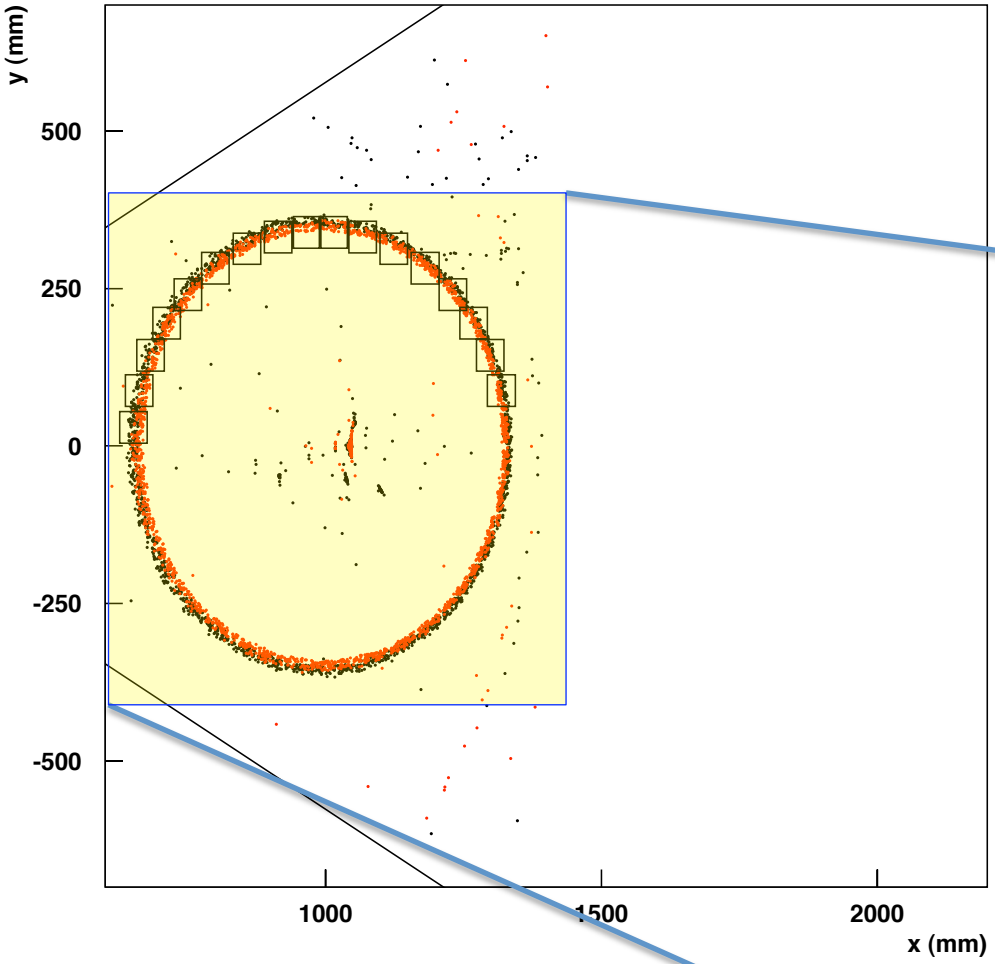
Only one isolated sector

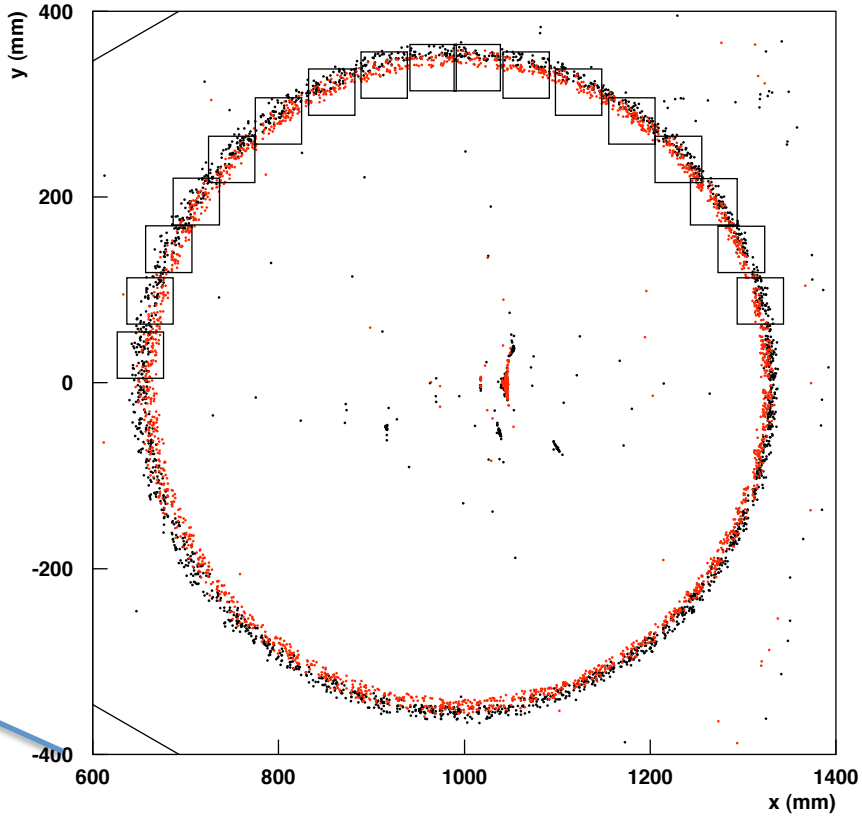
No magnetic field

Aerogel & PMTs as in CLAS12



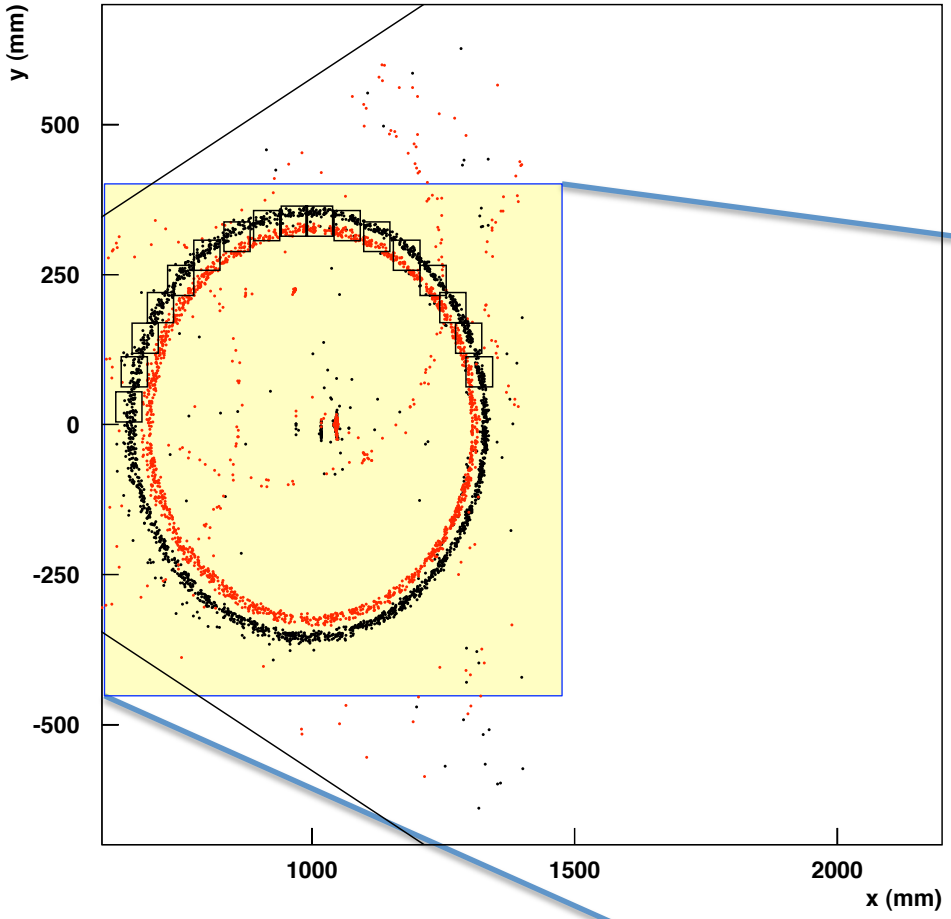
9° degrees, 8 GeV/c

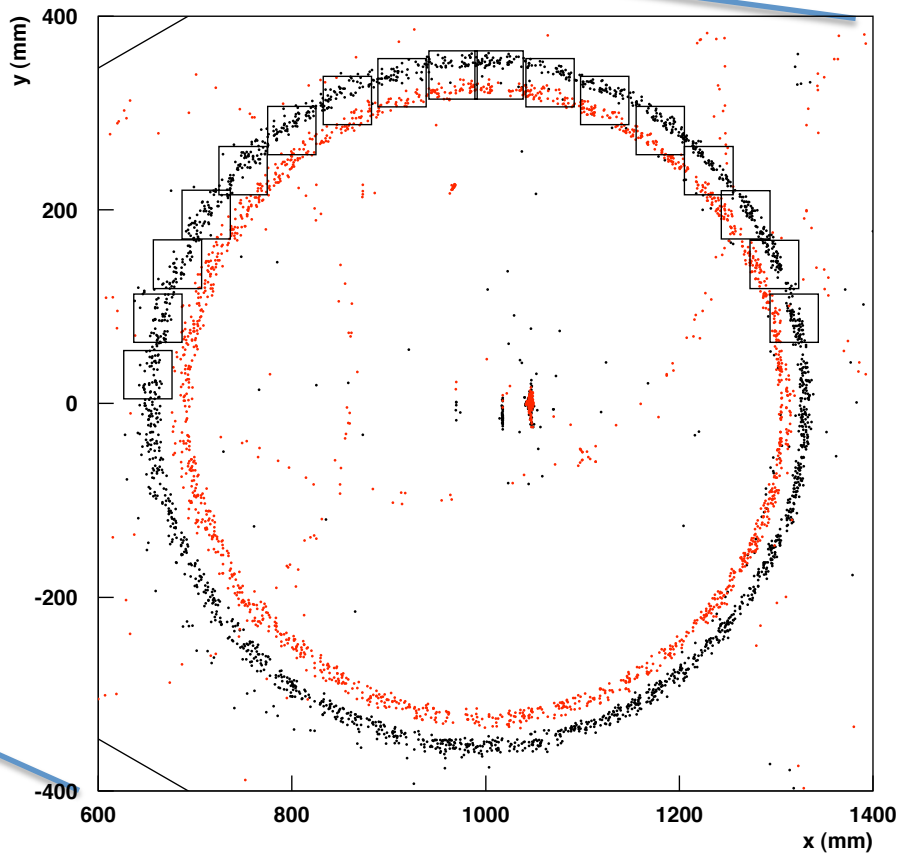




PMTs:
v/cr aa([nn]) R 86 77 67 56 45 35 25 15 5
sigma xx=cos(aa/[RAD])*340.+990.
sigma yy=sin(aa/[RAD])*340.

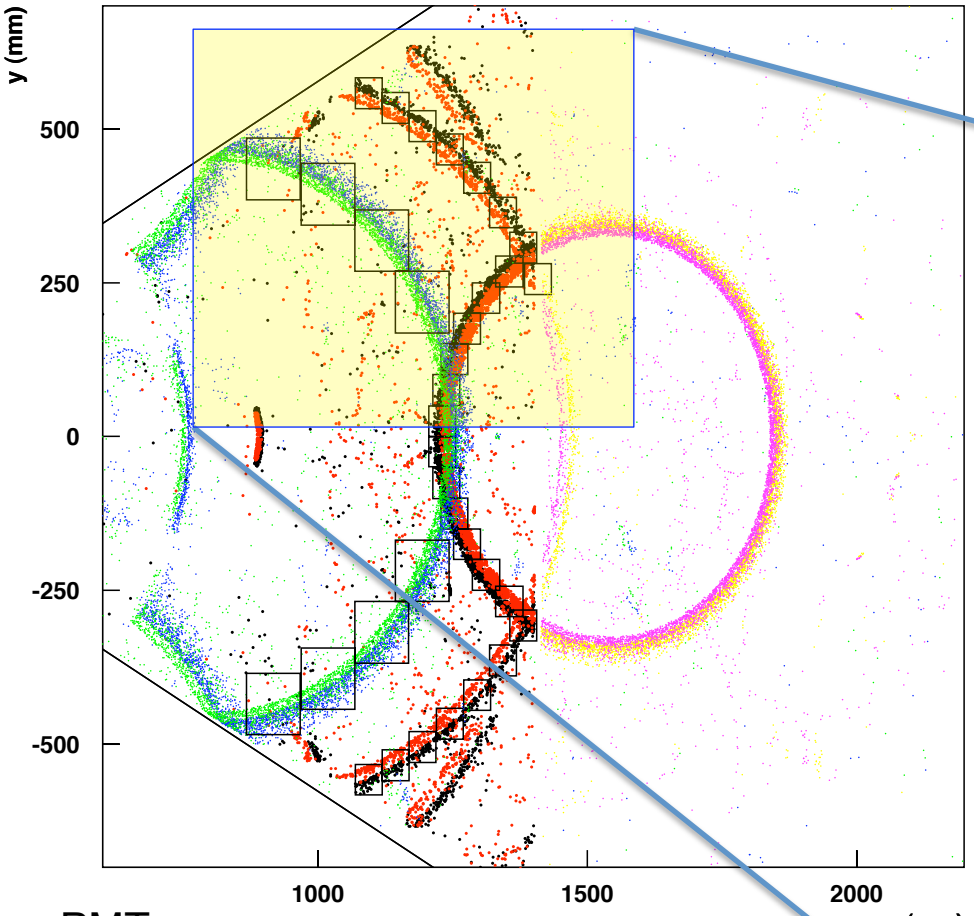
9° degrees, 4 GeV/c

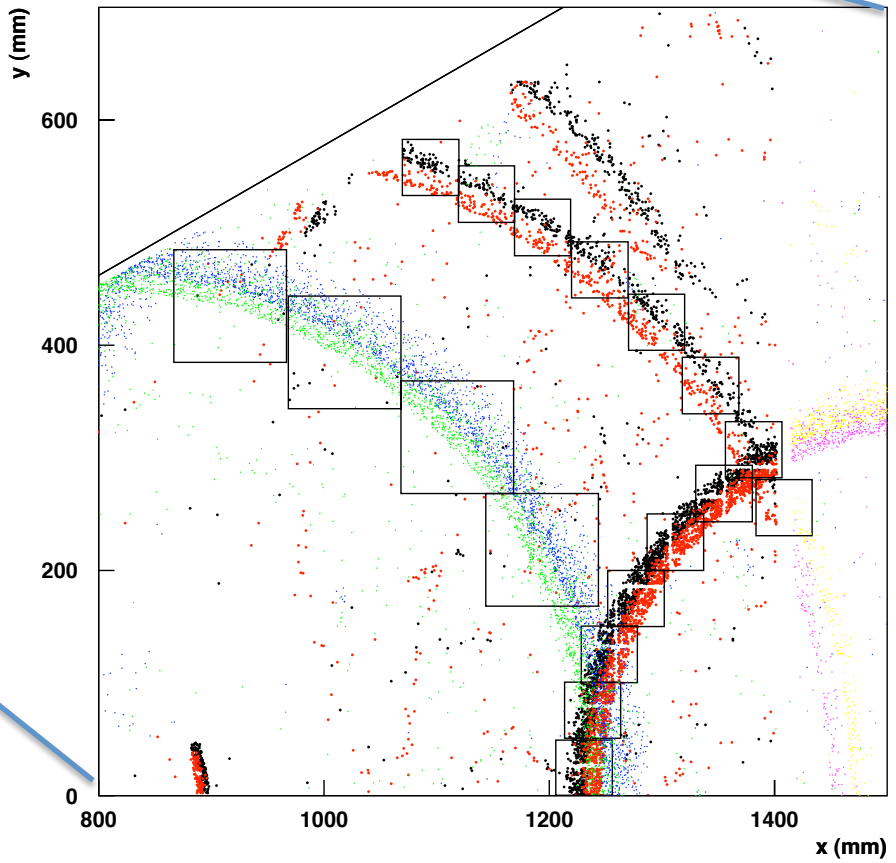




PMTs:
v/cr aa([nn]) R 86 77 67 56 45 35 25 15 5
sigma xx=cos(aa/[RAD])*340.+990.
sigma yy=sin(aa/[RAD])*340.

14° degrees, 6 GeV/c

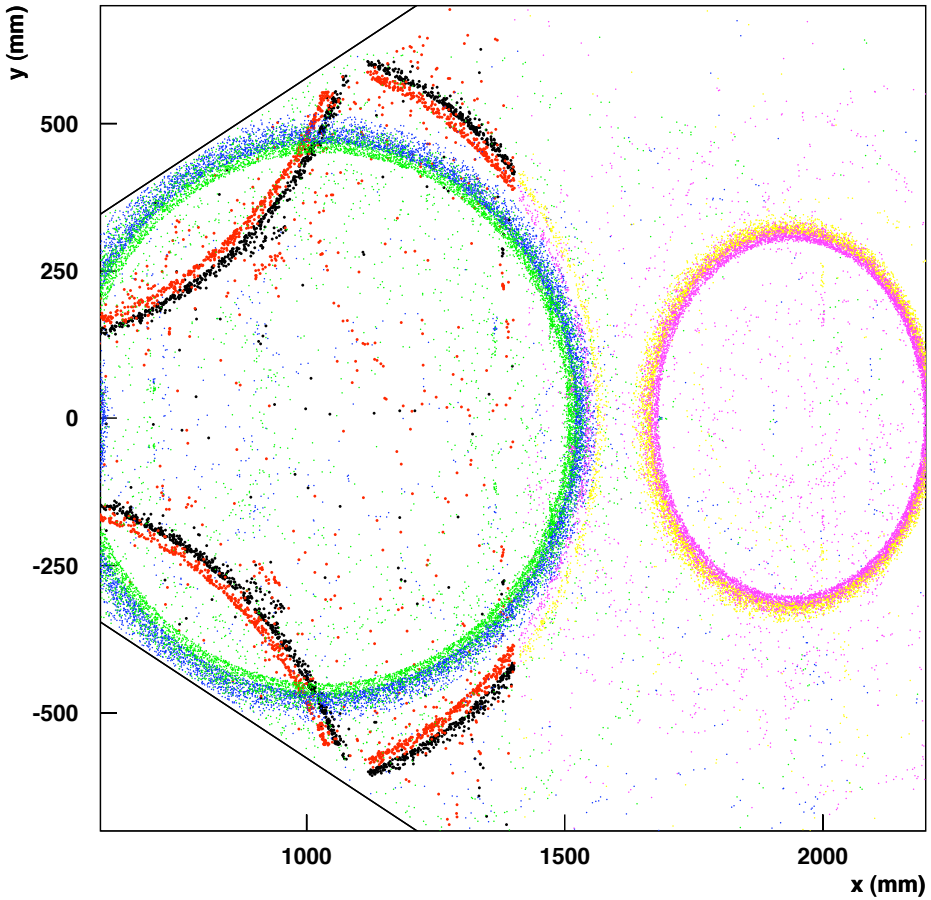




PMTs:
sigma xx=cos(aa/[RAD])*605.+860.
sigma yy=sin(aa/[RAD])*605.

sigma xb=cos(bb/[RAD])*350.+1580.
sigma yb=sin(bb/[RAD])*350.

18° degrees, 6 GeV/c



To be decided

Direct vs reflected light at LNF ?

-- large box for mirrors

-- can be done in fall ?

Kaon ID at CERN ?

-- TOF group ?

-- Simple cerenkov ?