CLAS12-RICH

1st sector construction started in September 2013

INFN(Italy), Jlab,
Argonne National Lab, Duquesne University,
Kyungpook National University (Republic of Korea),
J. Gutenberg Universitat Mainz (Germany),
Universidad Tecnica Federico Santa Maria (Chile),
University of Connecticut, University of Glasgow (UK)

Fast progresses in Front-End electronics and MA-PMT assembling design
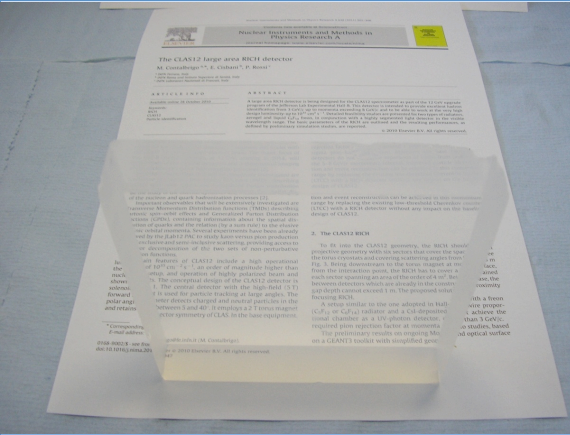

4.2 m
3.7 m
1.2 m

RICH Components

Aerogel:

Manufacture Engineering Phase ongoing with Novosibirsk to improve and stabilize large tiles production yield and transmission length

- have succeeded to produce several 'large' blocks with raw dimensions 180x180 and 230x230 mm (will finally shrink to 160 and 200 mm)
- several blocks where synthesized on top of glass plate or plastic covered plate to improve surface quality
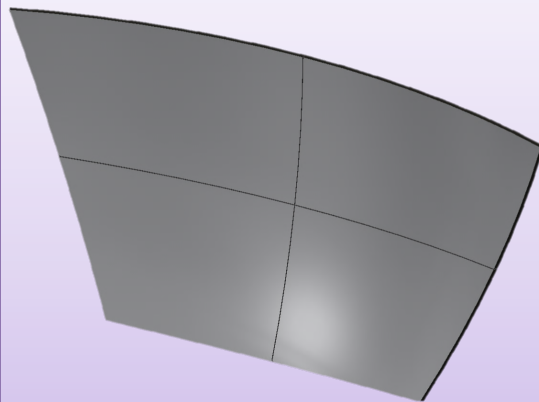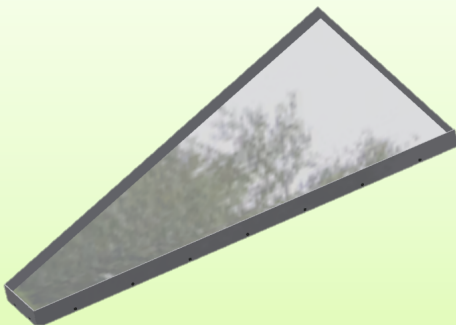

Spherical mirror:

Manufacture Engineering Phase ongoing with companies in Italy and USA
In contact with CERN laboratory for mirror characterization

Two demos in preparation at CMA (USA) :
  - CFRP skin and rohacell core
Mandrel demo in preparation at Marcon (Italy) :
  - supremax (borosilicate glass) material

Planar mirror:

Manufacture Engineering Phase ongoing with Media-Lario (Italy)

Two demos under preparation at Media-Lario (Italy) :
  - soda-line mm glass skin and Al honeycomb core