

AGATA

OPTIONS FOR DOUBLE ASSYMETRIC CRYOSTAT

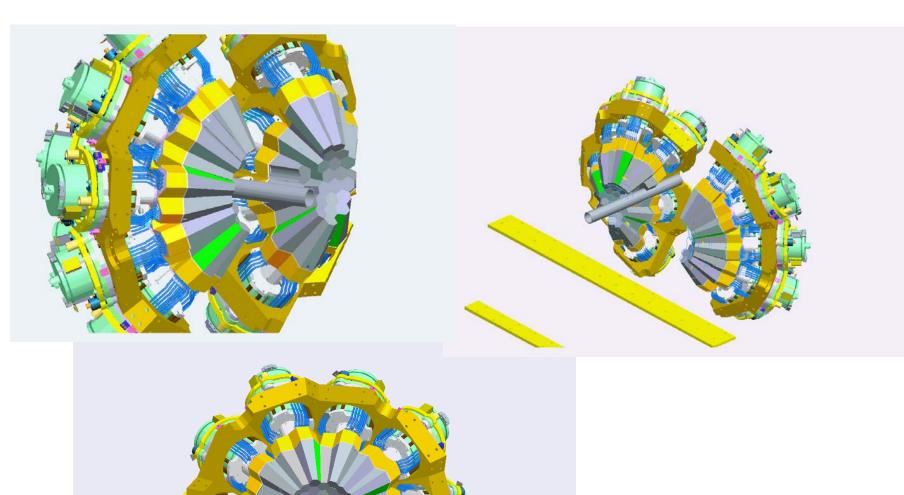
AGATA array at GSI

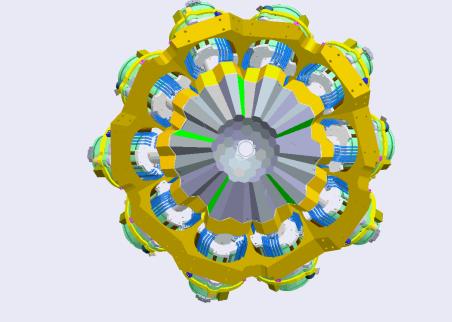
The following slides show how 5 double crystal assymetric detectors can be installed in the AGATA array at GSI as proposed in option S2 of the HISPEC/DESPEC workshop.

There are 2 options

Option 1 Using a beam tube of 95mm OD

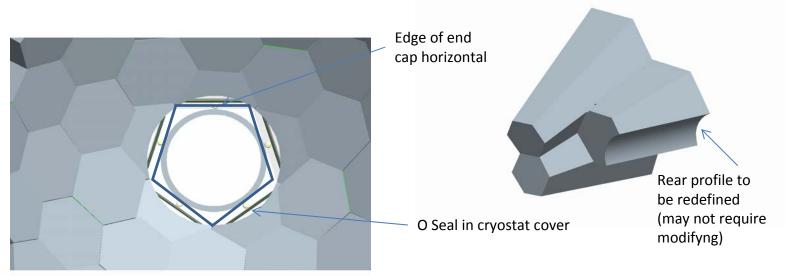
Option 2 Using a beam tube of 120mm OD





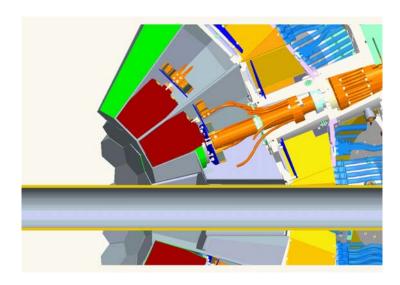
Option 1 95mm OD BEAM TUBE

Option 1



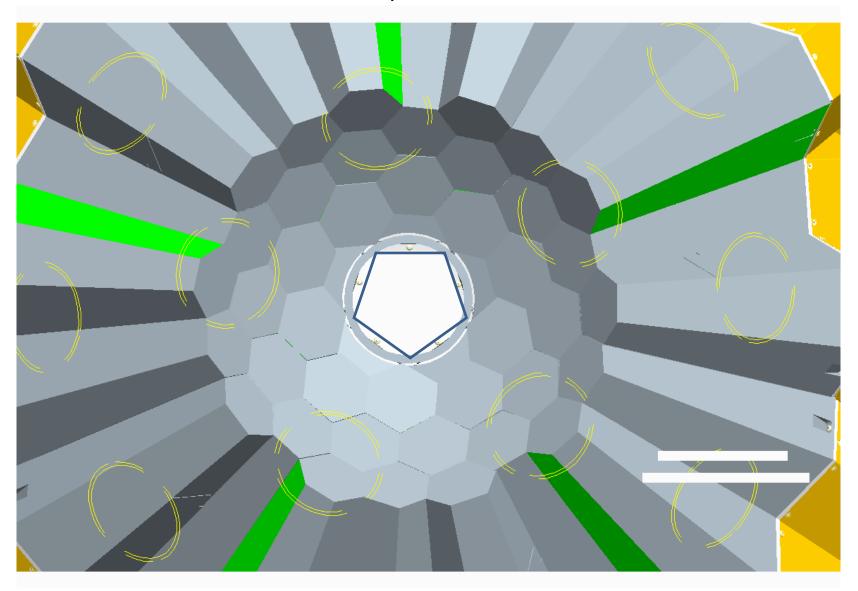
View along beam tube with 950D beam tube

Double Crystal Cryostat

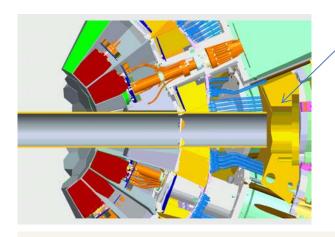


Section view shows that only crystal endcap needs to be modified.

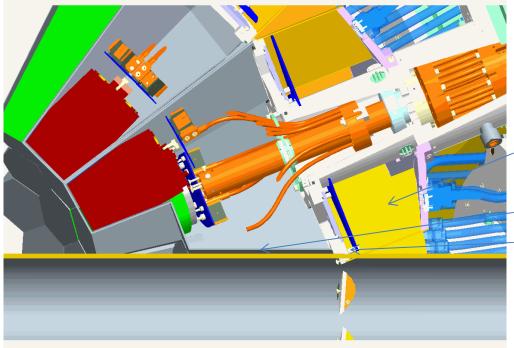
Option 2



Beamline view showing 125mm OD beamtube



160mm dia hole in existing support flanges

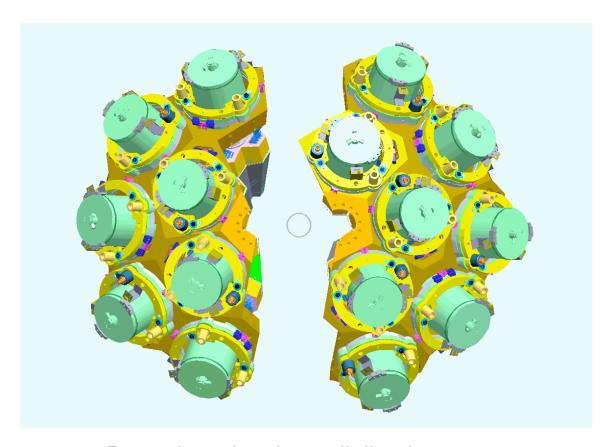


Sectional side view shows 120mm OD Beam tube cutting through cryostat cover

Circuit boards need to be removed

Parts to be modified. End caps End flanges Outer cover

Option 1 & 2



Rear view showing split line between 2 halves and existing support flanges

Summary

- 1. The mechanical support and splitting there of is relatively straight forward for the S2' layout.
- 2. If a 95mm dia beam pipe is acceptable only modification of the detector end cap is required.
- 3. If a 120mm dia beam pipe is required modification to the end cap and end cap cover flange is required