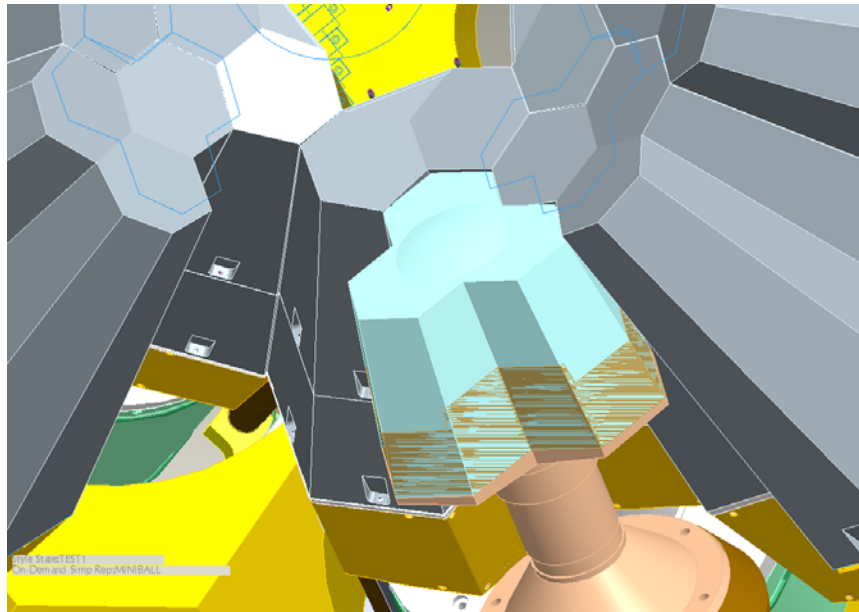


## Miniball Detector in AGATA at GSI Frame



Above image shows Miniball detector beside Agata triples. Two triples withdrawn, 1 miniball inserted. Surprising close fit, although a slight clash at 235 radius. It comes clear at 232 radius, if brought back by itself, If all the AGATA detectors are brought back together this would allow a radius of approx 233.

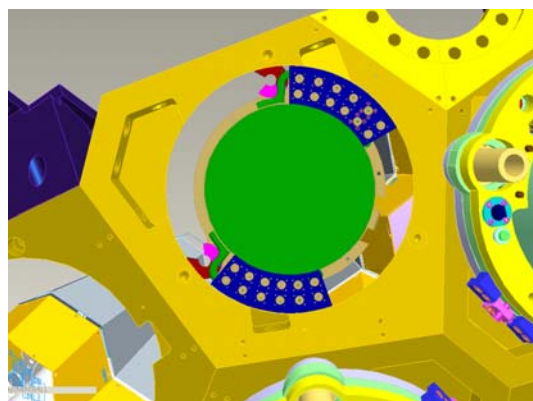
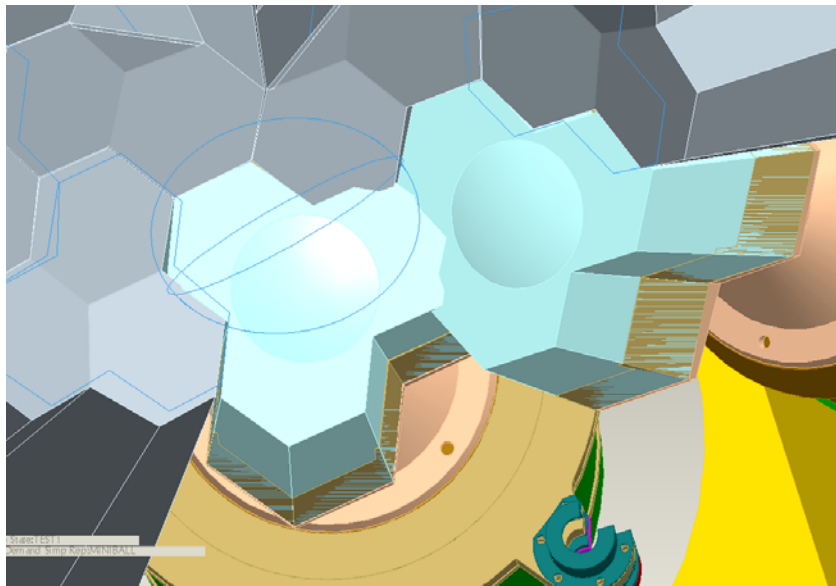


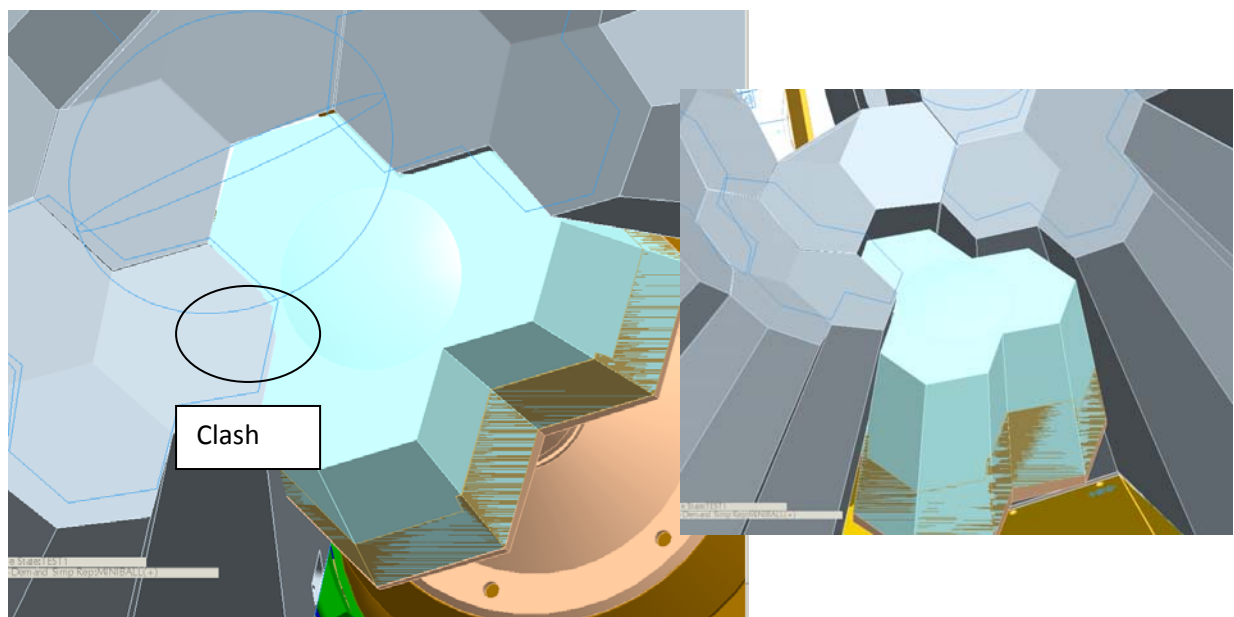
Image on the left showing the cryostat a tight fit when installed, mounting ring has to be replaced, probably connector brackets need to be repositioned /redesigned.

Installing a second Miniball detector adjacent to the first seems to cause problems. Clash particularly with the first Miniball, but also with AGATA detector.



One possibility is to position on second ring detectors like:

AGATA, miniball, AGATA, miniball.



Miniball clashes with AGATA detector. Miniball Detector has be withdrawn aprox 20mm to come clear. AGATA detectors remain at 235.