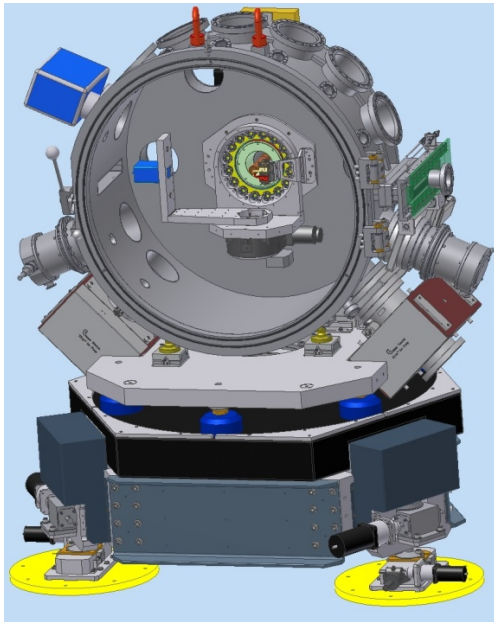


Soft X-ray Imaging and Diffraction Chamber

A new soft x-ray imaging and diffraction chamber has been installed on X1A2 at the NSLS



The new chamber will study electronic textures in strongly correlated electron systems using soft x-ray resonant scattering, and diffraction contrast imaging, with a resolution of 100 nm.

Key questions to address include:

- How, and why, are strongly correlated systems electronically inhomogeneous?
- Is the electronic order different at a surface or interface than in the bulk? Why?

Unique features include:

- Full vertical and horizontal diffraction
- Zone plate focusing optics
- 4 K base temperature

Development led by **Stuart Wilkins, John Hill and Scott Coburn** (CMPMSD, BNL)



Chamber on beamline



First light