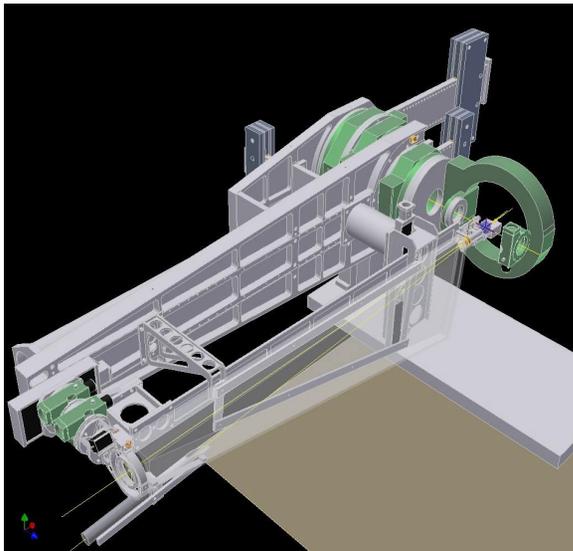


The 2m IXS Spectrometer at CMC-CAT

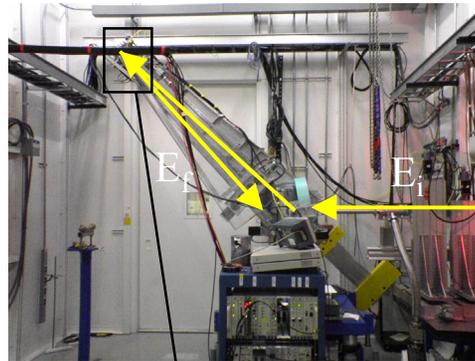
A new vertical spectrometer has recently been installed at CMC-CAT. Designed primarily for inelastic x-ray scattering (IXS), it can accommodate 2m or 1m IXS set-ups as well as conventional analyzer stack-up.



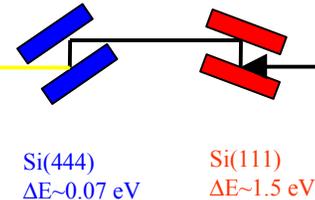
Designed by Scott Coburn (BNL)

- Horizontal counter-balance takes out any twist of the two-theta arm as it moves in the vertical plane.
- He-filled flight tank. Also supports point detector for elastic scattering.

Installed at 9-IDB, June 2004



Monochromators:
Double-bounce, Si(111) or Si(333), together with a secondary monochromator, typically Si(311) or Si(444).



Analyzers

H. Sinn,
N. Kodituwakku



Spherically bent, diced single crystals. The scan at right shows the resolution function for a Ge(733) analyzer ($R=2m$) taken at $E_i=8995$ eV.

