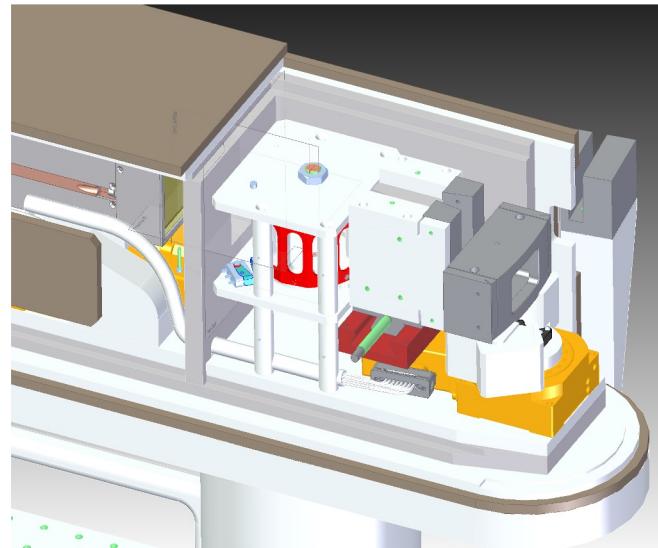
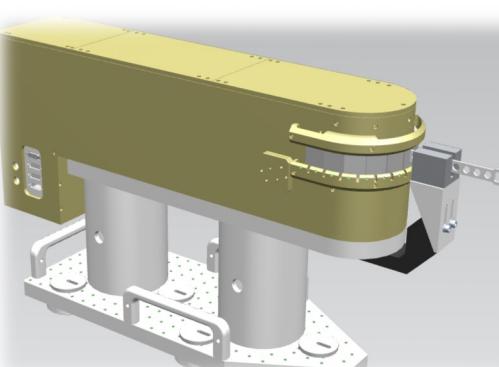
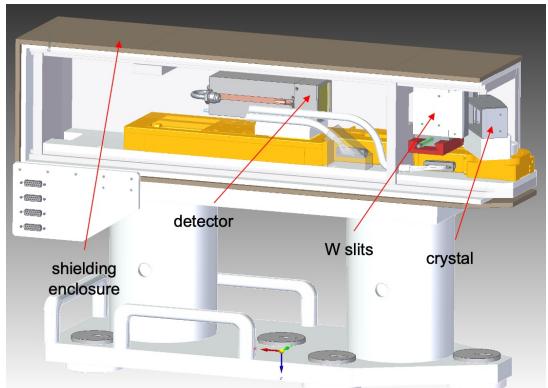


XTCS for higher X-ray photon energy

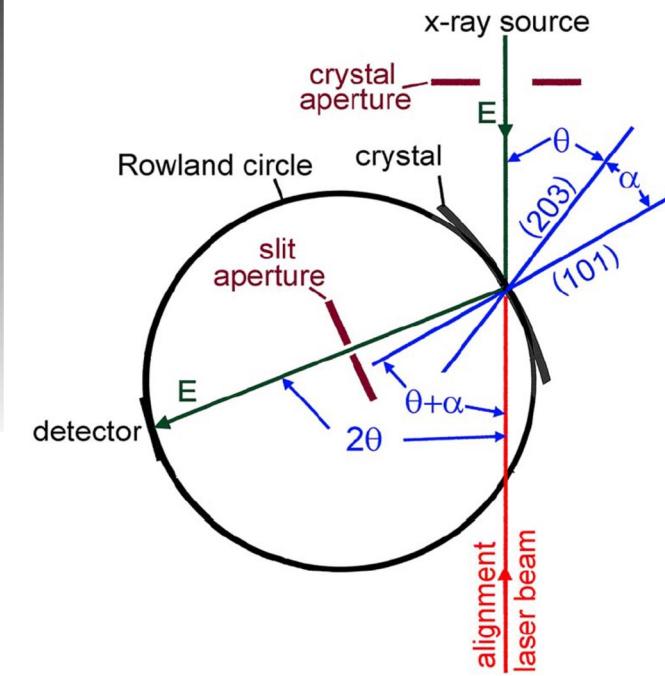


X-ray Transmission Crystal Spectrometer (XTCS)

- Build for EMP/bremsstrahlung rich environment using the Cauchois geometry
- 1000 resolving power between 6 and 25 keV
- Designed for easy alignment and installation
- Spectral window by detector: ~2 keV
- Shielding performance to prevent hot electrons distribution



Cauchois geometry



J. F. Seely, E. Galtier, L. T. Hudson, A. Henins, and U. Feldman, "High x-ray resolving power utilizing asymmetric diffraction from a quartz transmission crystal measured in the 6 kev to 22 kev energy range," Appl. Opt., vol. 58, no. 19, pp. 5225–5232, Jul. 2019.

Preliminary test of XTCS with short pulse laser



XTCS with Tungsten shielding

