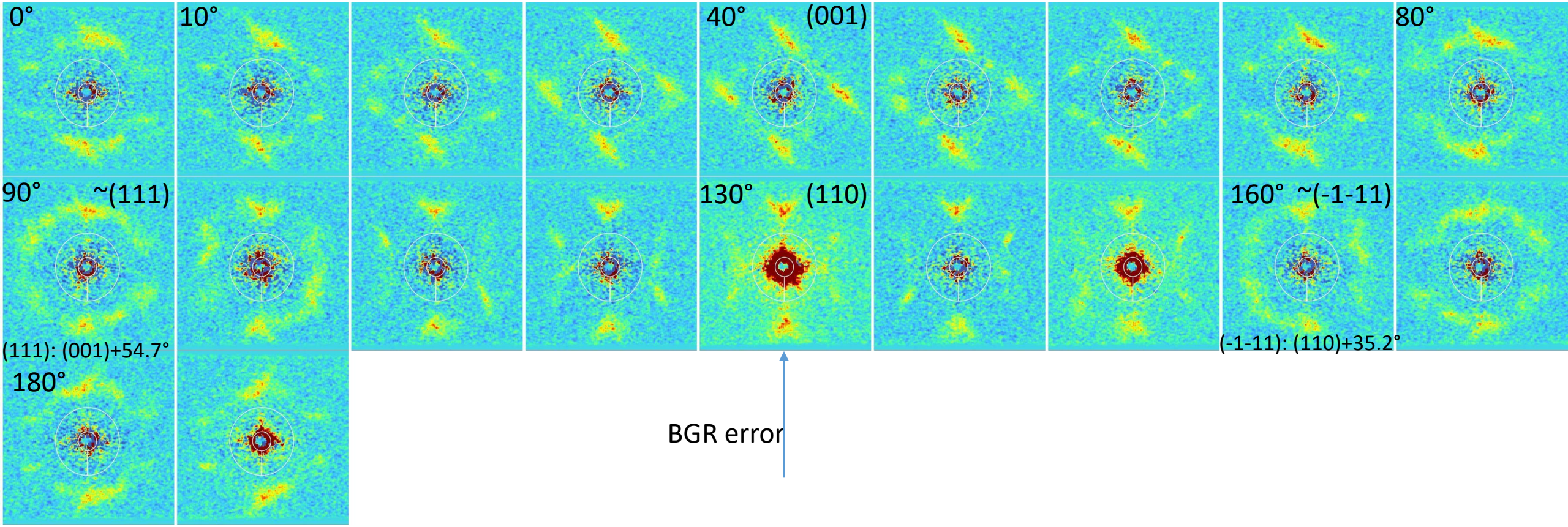
Reciprocal Space Tomography

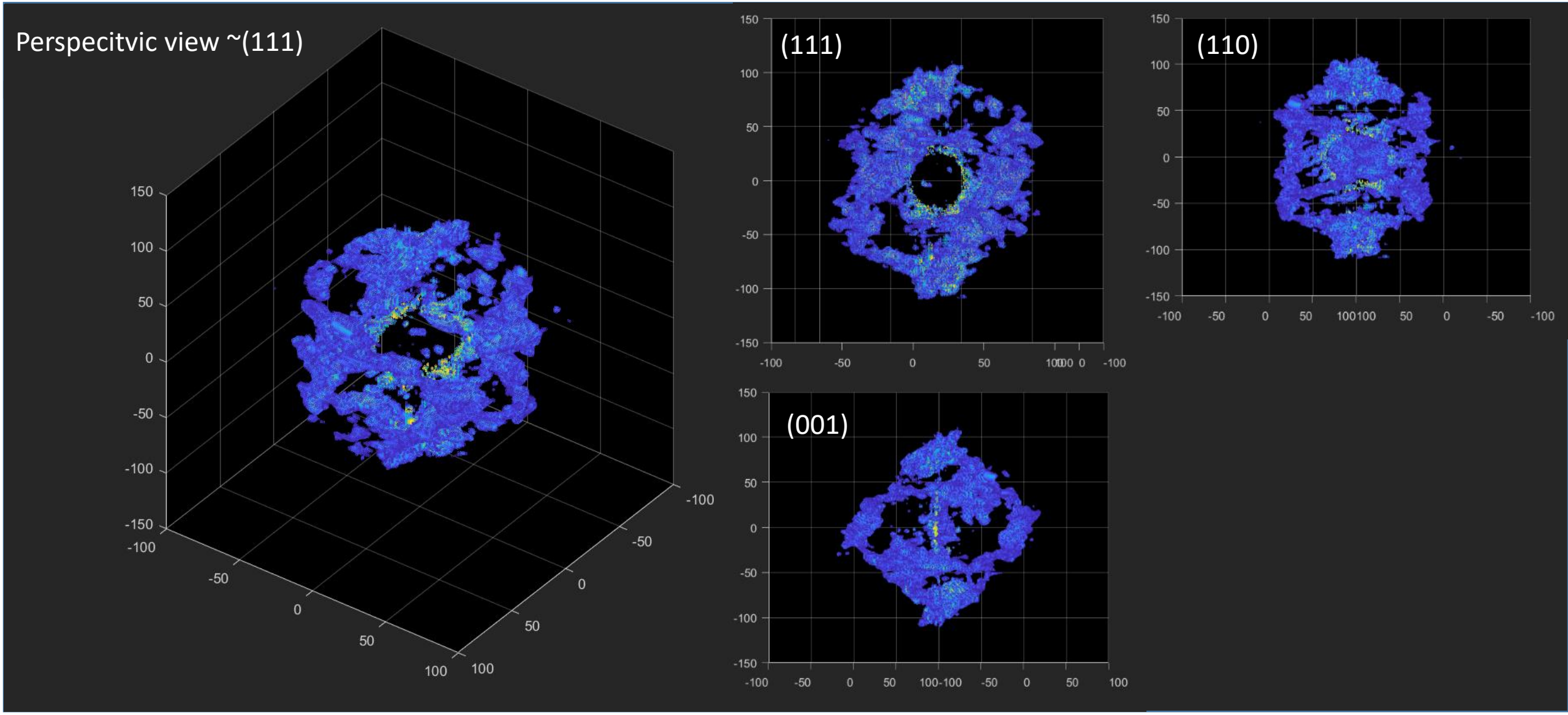
Wide-angle scan on GaMoS:

10° averaging window for better statistics:



Reciprocal Space Tomography

3D reciprocal space image recovered from the 2D slices (after smoothing and cutting out the direct beam)

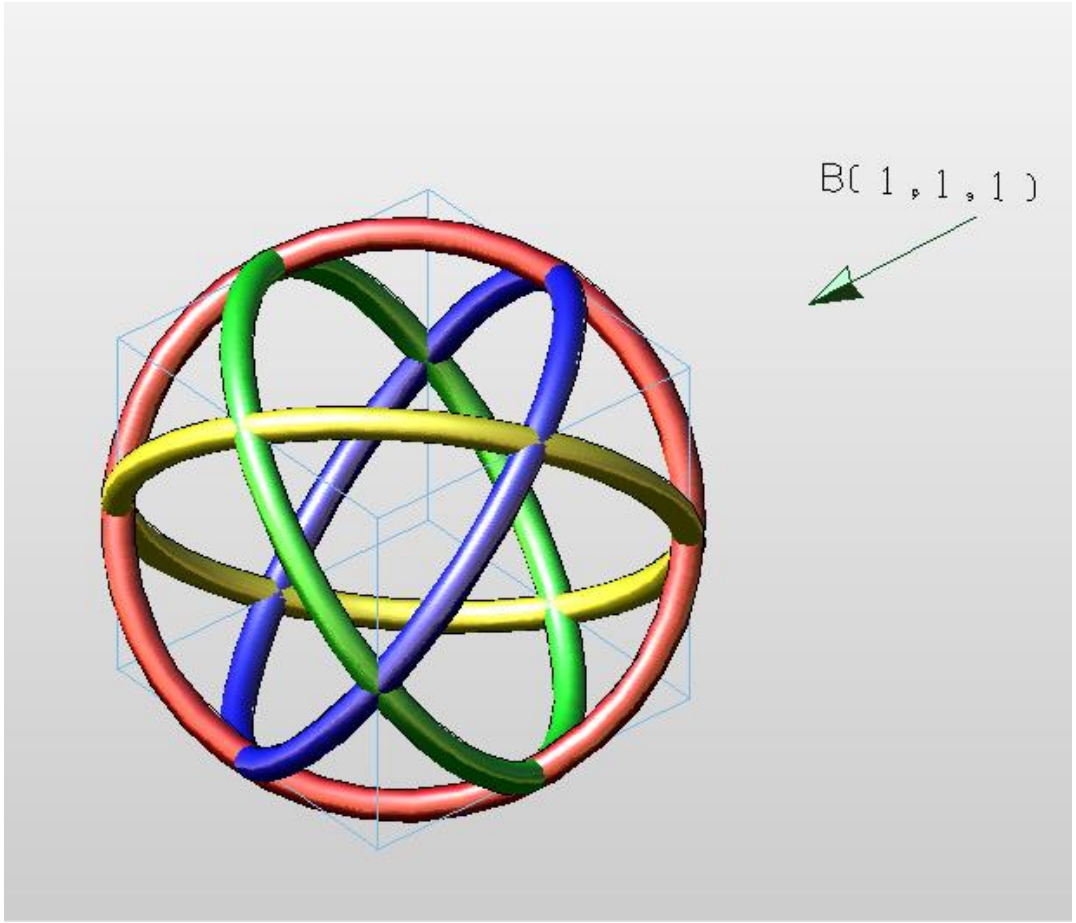


Reciprocal Space Tomography

Model:

GaV_4S_8

- Q-vectors distributed on rings
- Cyc modulation wavelength ~20nm = 20*a
  - 20 chemical lattices
  - In-plane anisotropy averaged out



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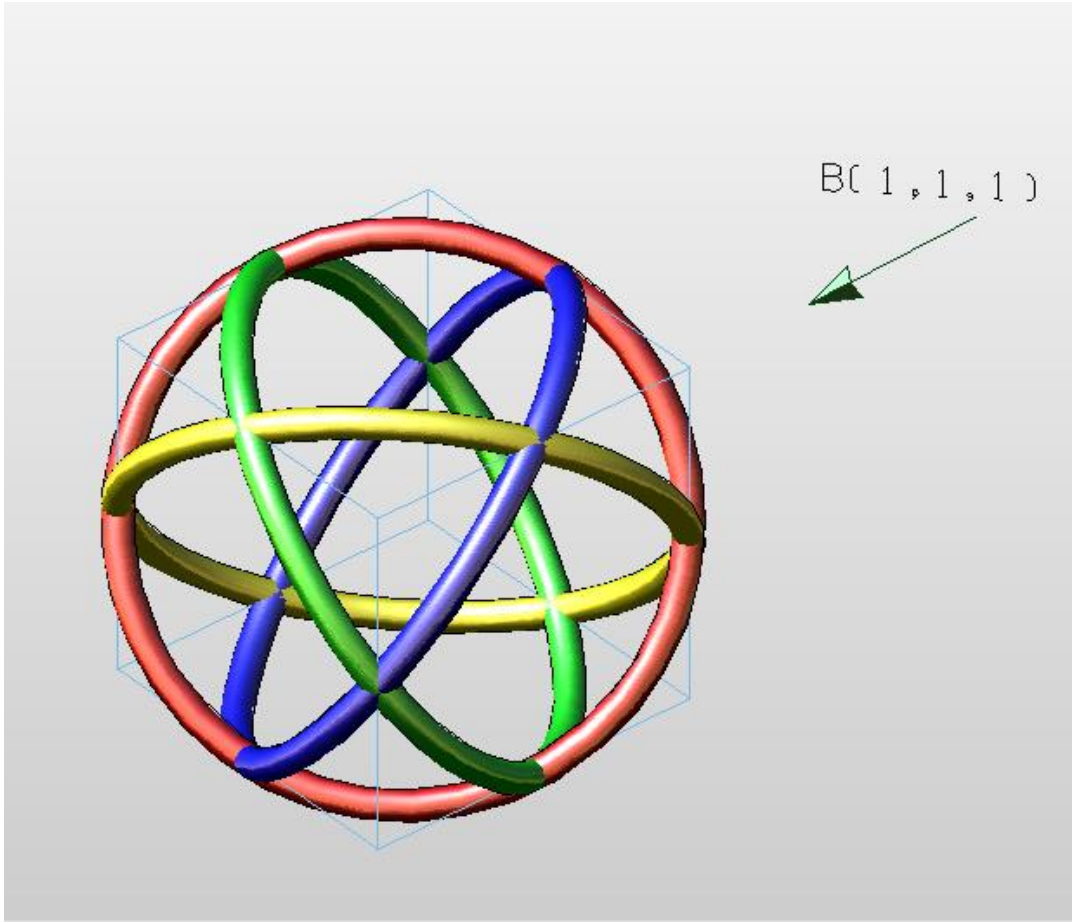
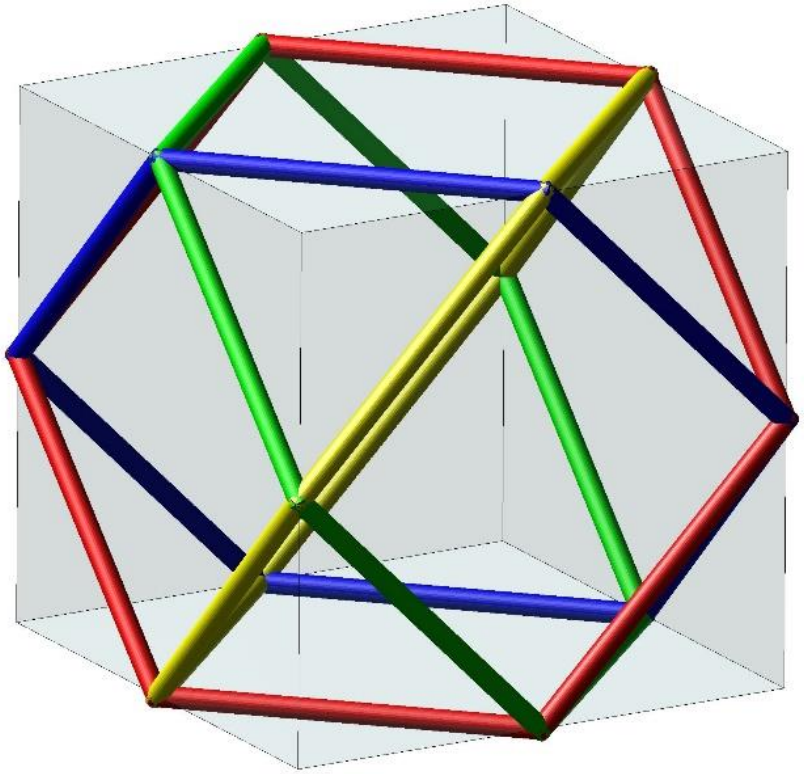


$GaMo_4S_8$

- Cyc modulation wavelength ~2nm = 2*a
  - 2 chemical lattices
  - In-plane anisotropy is reflected in the q-vectors of the cyc modulations
- Q-vectors distributed on hexagons



Reciprocal Space Tomography