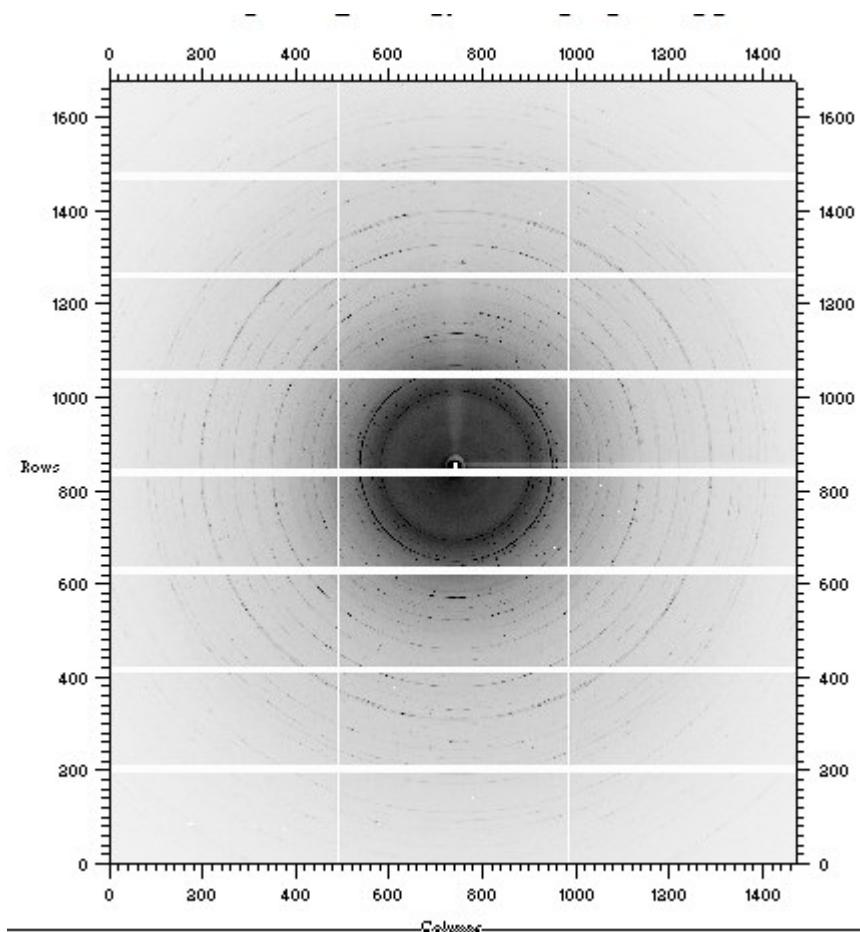
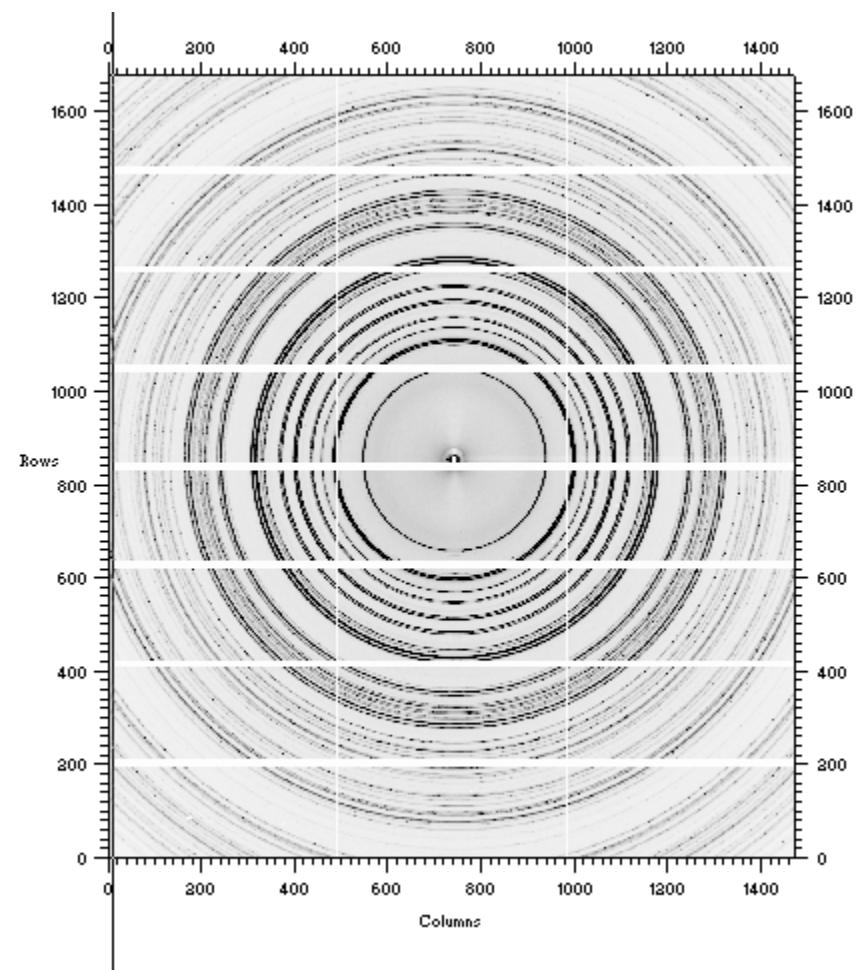


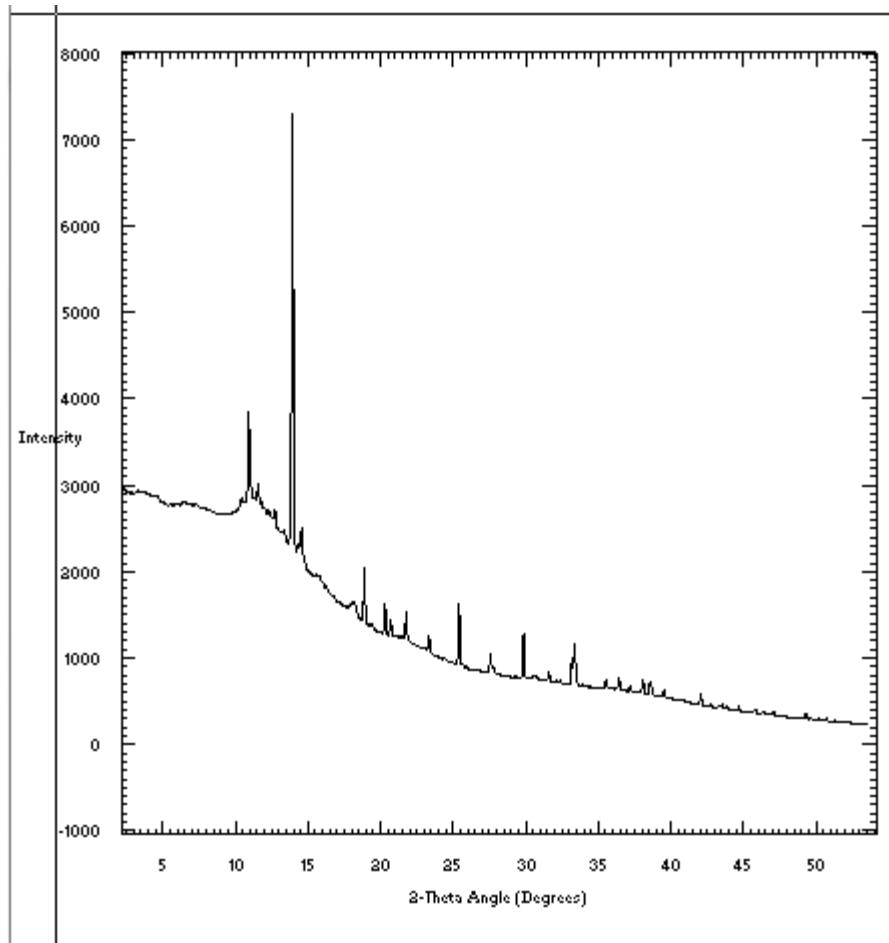
X-ray powder diffraction: Tutorial

- From raw data to integrated data
- Phase identification
- Pattern simulation
- Quantitative analysis
- Thermal expansion determination

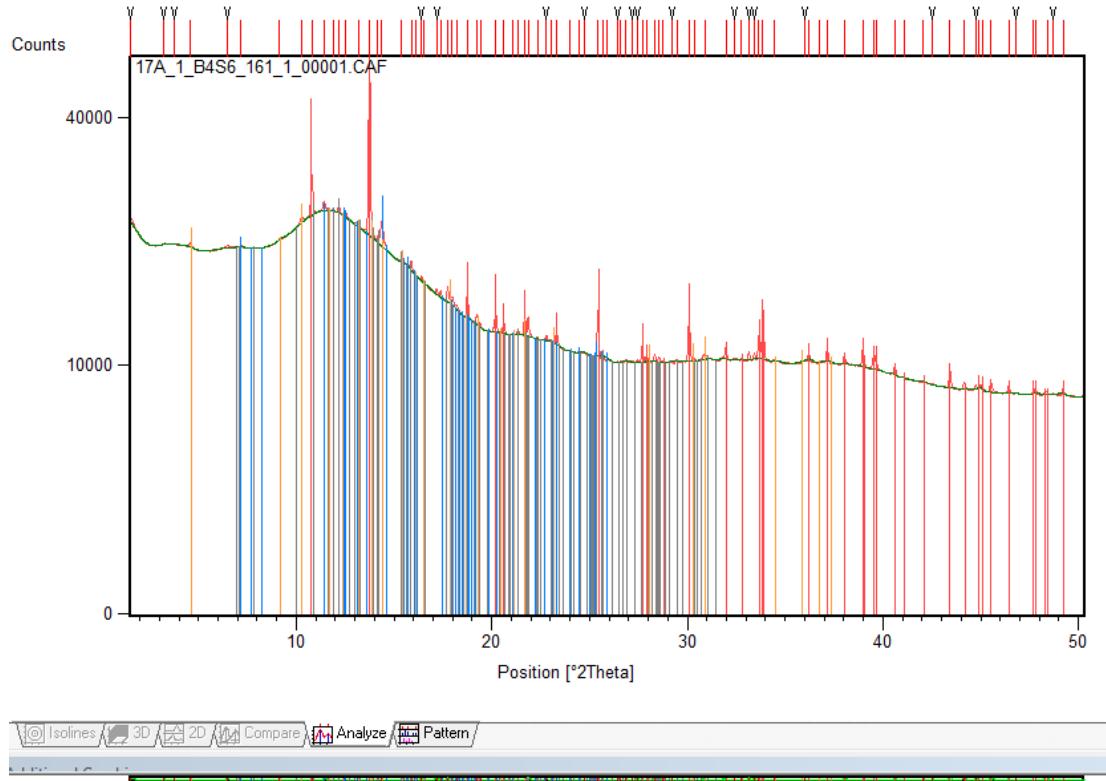
2D raw data



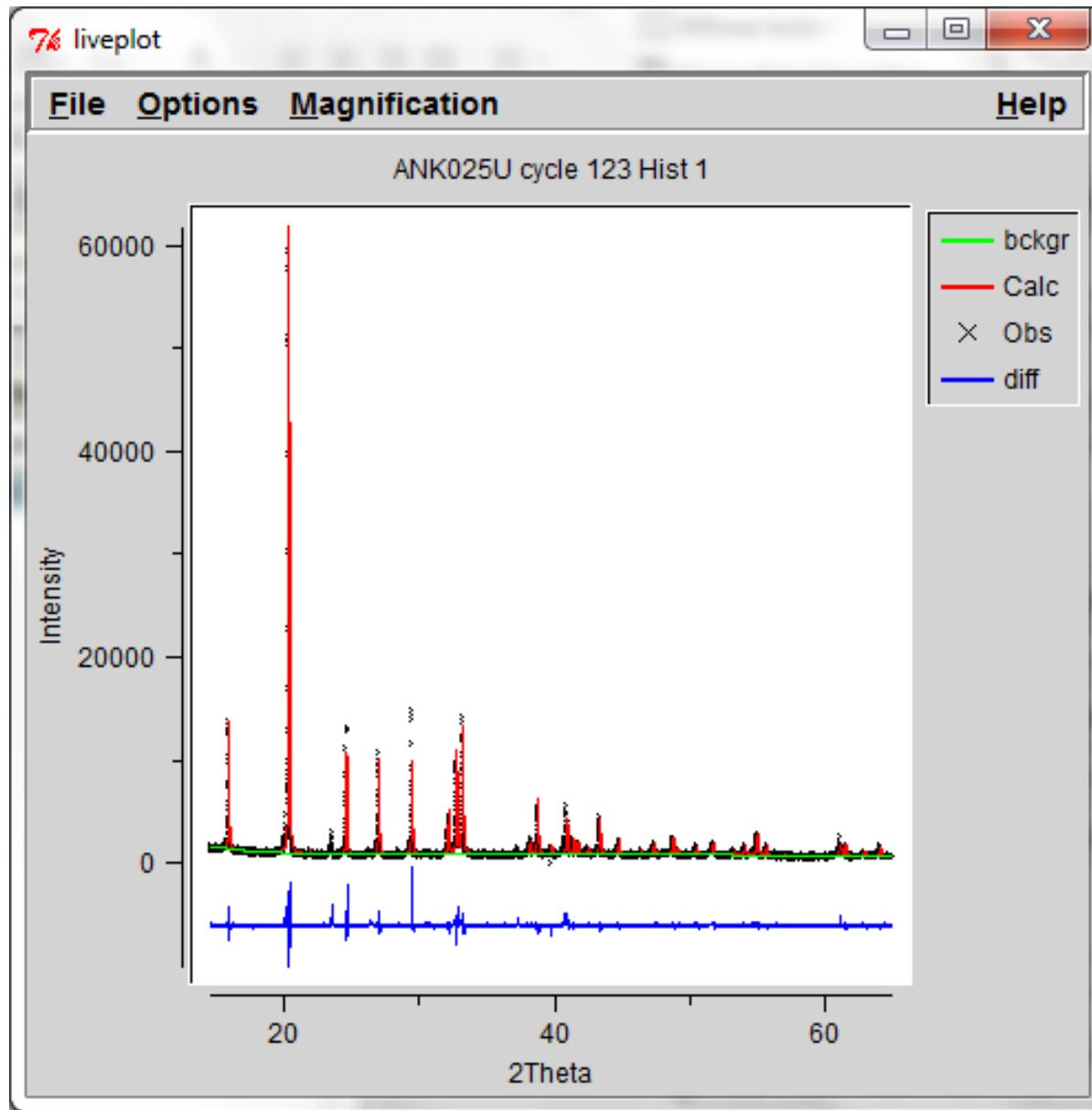
Integrated data



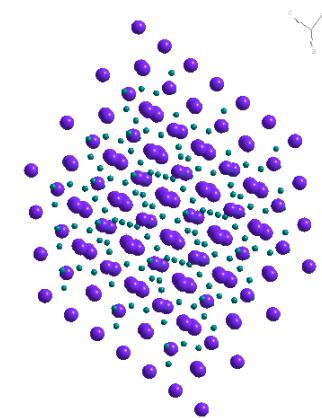
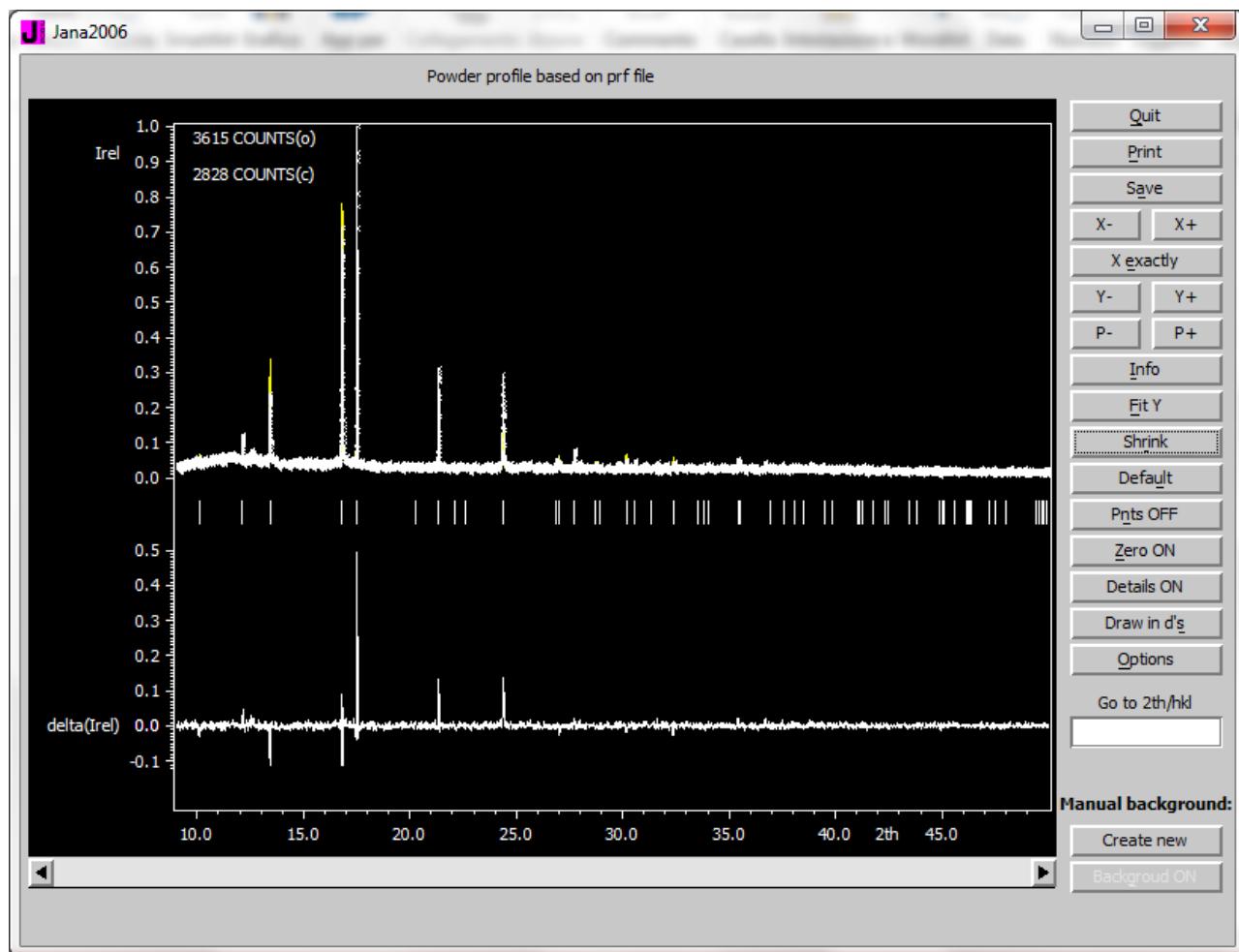
Phase identification



Pattern simulation – lattice parameter determination – quantitative analysis



Advanced: crystal structure determination



<https://drive.google.com/open?id=0B0bfcGomFpKYekVET3J1cFVvdTA>

- Software for data reduction (FIT2D)
- Software for Rietveld analysis (GSAS)

- Others: few programs for data conversion (i.e. ConvX...)
- Jana2006 (advanced, for structure determination, single crystal...)
- Diamond (old version, for structure visualization)
- Powdercell (for powder pattern simulation)