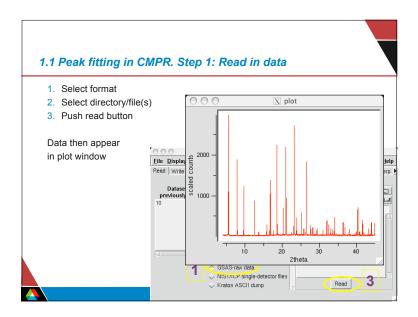
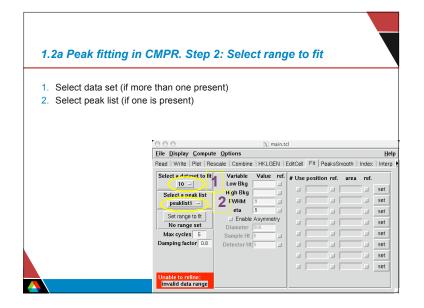
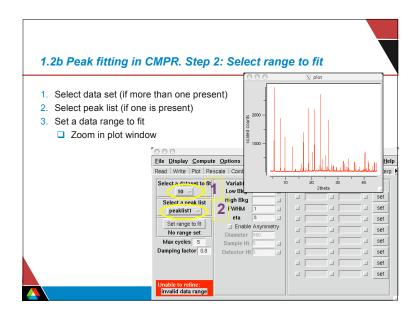
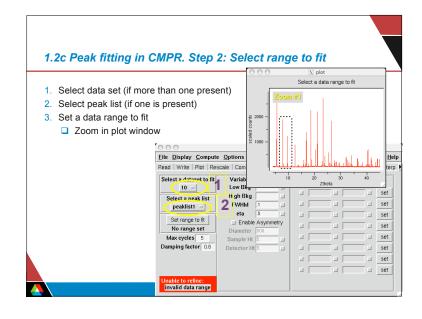
Problem 1: Starting a refinement with bad profile coefficients & only an approximate structure is quite hard Solution #1: Collect data using a standard with a known structure Fit the standard (easier since structure & cell can be fixed) Create an instrument parameter file in INSTEDIT specific to the instrument type/conditions (CW only) Solution #2: Fit peak widths for selected peaks (in CMPR or RAWPLOT) Fit profile coefficients to peak widths (in CMPR) (CW only) Edit profile terms in refinement or create/edit instrument parameter file in INSTEDIT Will make use of CMPR program

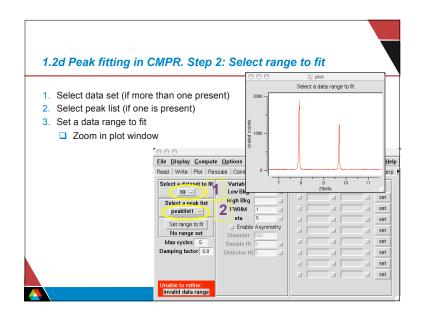


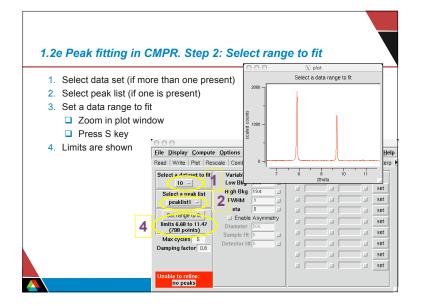
1.0 Peak fitting in CMPR. Step 1: Read in data Select format 2. Select directory/file(s) 3. Push read button File Display Compute Options Help Read | Write | Plot | Rescale | Combine | HKLGEN | EditCell | Fit | PeaksSmooth | Index | Interp Dataset(s) File format Select one or more files to read previously read: SPEC data files Directory oby/software/dist/cmpr/teut BT-1 multi-detector Filter *.{gsas,GSAS,raw,RAW} ↓ IUCr pdCIF data <Parent> COM-CAT Pscan File Siroquant CPI (SIETRONICS) 10.gsas DBWS/FULLPROF data pbcat003.raw APS DND File SR.GSAS GSAS-raw data NIST/ICP single-detector files Read Kratos ASCII dump

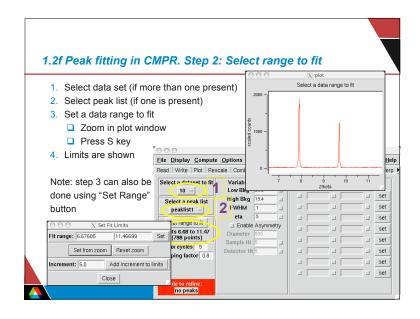


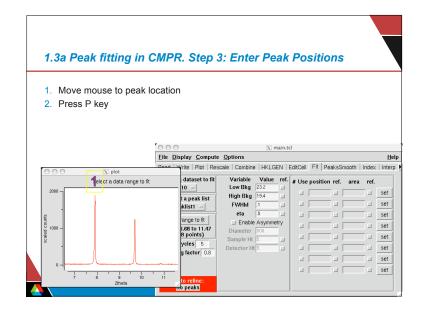


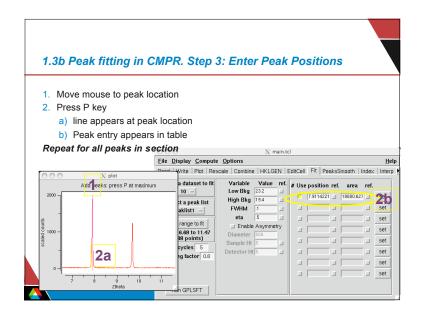


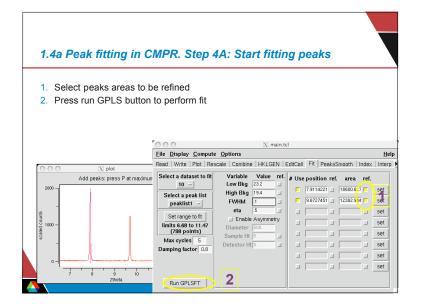


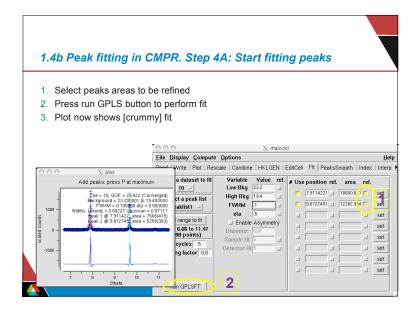


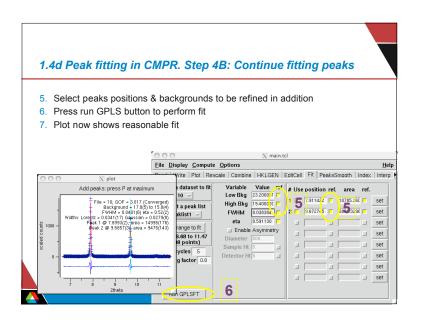












1.4c Peak fitting in CMPR. Step 4A: Start fitting peaks 1. Select peaks areas to be refined 2. Press run GPLS button to perform fit 3. Plot now shows [crummy] fit 4. Refine peak width & shape (Gaussian: eta = 0; Lorentz: eta = 1) File Display Compute Options Write Plot Rescale Combine HKLGEN EditCell Fit PeaksSmooth Index Intern X plot Variable Value ref. # Use position ref. area ref. Add peaks: press P at maximum Low Bkg 23.200001 _ 1 7.911422 7507.7817 set 24 9.672745 5255.6152 set High Bkg 19.400000 t a peak list FWHM 0000000 = aklist1 eta 0.500000 range to fit ☐ Enable Asymmetry 6.68 to 11.47 Diameter 5 98 points) cycles 5 Detector Ht 5 ng factor 0.8 □ set □ set n GPLSFT

