

Reflectivity line up

- go into hutch and mount the ion chamber
- make a new file with 'newfile filename'
- check with wst that the following values are set:
 - bsx -5: the rod like beamstop should be moved to the side
 - bsz 25: the rod like beamstop should be moved upwards
 - bsbz -3: the direct beam cutter should be moved down
 - gamz 0: the sample stage should be in the beam
 - spindle 0: the sample stage should be parallel with the beam
- open shutter: opens
- find the sample height: `dscan gamz -.5 .5 20 1; mv gamz CEN; set gamz 0`
- make the sample parallel: `dscan spindle -.5 .5 20 1; mv spindle CEN; set spindle 0`
- you might recheck the sample height
- move bsbz to .5 (block the direct beam)
- make a rough reflectivity to find the correct 0 for spindle, `dscan spindle -0.5 .5 50 1; laser`
- from the lasered printout, extropolate to 0, mv spindle to the read off value and set it to 0
- find the correct sample height: `mv spindle 0.2; dscan gamz -.3 .3 30 1`
- make a reflectivity: `ascan spindle 0 .5 50 1`

GISAXS exposures

- make sure the shutter is closed: closes;
- check with wst that the following values are set:
 - bsx 0: the rod like beamstop should be moved in
 - bsz 25: the rod like beamstop should be moved upwards
 - bsbz 2: the direct beam cutter should be moved in
 - gamz 0: the sample stage should be in the beam
 - spindle value: have a good starting angle
- if you should be in spec, you have to do the following. if not: proceed:
 - quit spec
 - start_ccd
 - start_rspec
- go into hutch and remove ion chamber
- enable garage door
- open garage door
- see the general comments to the ADX software below
- make a 1 second exposure to make sure that everything is in order
- make a 10 second exposure to look at the bsx position

general comments to the ADX software:

- select DISPLAY → Image... → Follow Images to view automatically updated your last exposure
- select SETUP → Run(s) to activate your control window
- choose your image path (Directory) and a reasonable Image Prefix
- In the run line set the following parameters, which NEVER change:
Distance: 1000; 2- θ : 0; Kappa: 0; Omega: 0; Axis: phi; Width: 0!!!;
- Parameters to take care off:
 - Frames: Start: adjust this value new for each exposure
 - Total total number of exposures
 - Phi: the first incident angle (spindle) where the image will be taken
 - * go to Config → CCD... and choose Osc. steps to set the step width for an angular series (this will move spindle)
 - Time: Exposure time
 - * go to Config → Dark Current Files: → Use File DC_Xs_0_001.dkc, where X stands for your exposure time. currently available DC's: 1, 5, 10, 50, 100, 500, 1000 and 5000 seconds (currently in directory peter taken at 04/22/05).
 - De-Zngr: Y for Dezingering, N for single image