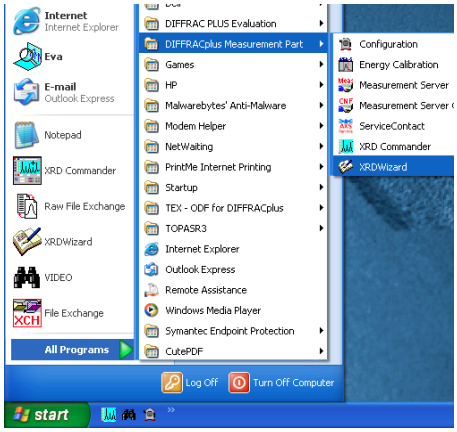
XRD Wizard

Creating a JOB file

1. Log into user account

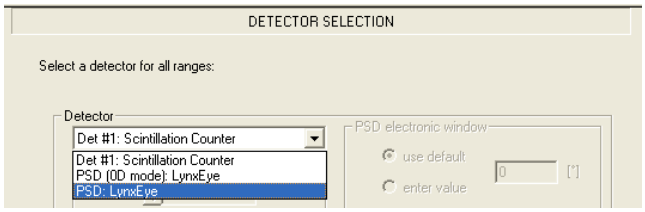
2. Open up “XRDWizard” (see fig. to right)
   a. A new file will automatically be created



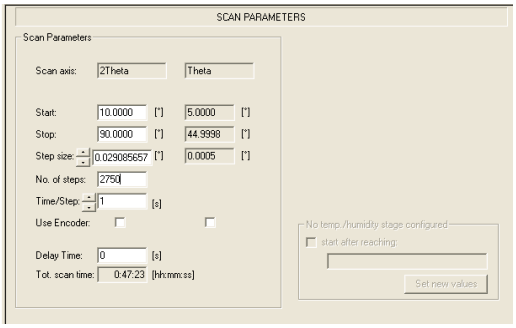
3. If you want to edit a old file click the  icon

4. On the initial screen (SCAN –DOCUMENTATION)
   a. Enter all desired details
   b. Then click OK
   c. A messagebox will pop up (see fig. to right)
      1. Click Yes

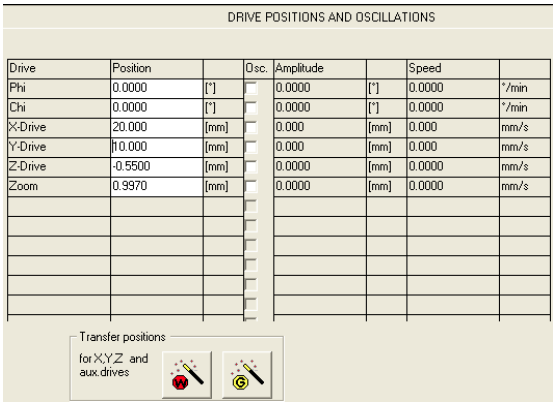
5. DETECTOR SELECTION
   a. Select the PSD LynxEye (see fig. to right)
   b. Click OK
   c. Save? - Click Yes



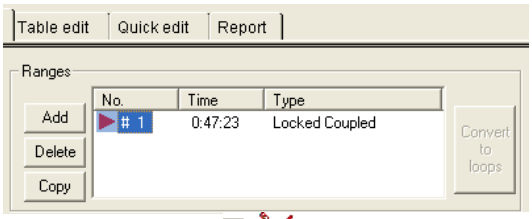
6. SCAN PARAMETERS (see fig. to right)
   a. Input your parameters
   b. To convert from deg/min to time/step
      1. Step size*60/(deg/min)=(time/step)
   c. An estimated time is given at bottom
   d. Click OK - Save? – Click Yes

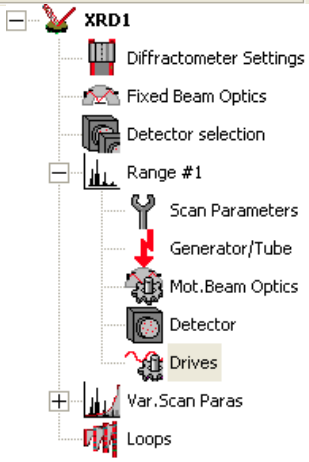


7. DRIVE POSITIONS AND OSCILLATIONS
   a. Using “XRD Commander” Find sample location(s)
      1. Follow basic procedure under Step 6 of “OrST_Bruker_D8_XRD_Measurments_Quick.pdf”
      2. Adjust X and Y as done with Z
         1. X + is back Y+ is left
   b. Input sample location (X, Y, Z) (see fig. to right)
      1. Transfer position does not work :(



8. Add next sample position by:
    a. Selecting #1 Range (see fig. to right)
    b. Click Copy
    c. Repeat Step 7 by selecting Drives (see fig. to right)
    d. Be sure to note what sample is in what position!!!





9. Save  the "Parameter File"
    a. Use a file name that tells you what it is for the future

10. RUN JOB in "XRD Commander" (see fig. below)
    a. Select Jobs tab at bottom
    b. Click the  button (Create Job)
    c. Select the "Parameter File" you just created
    d. Choose a save file name and location
    e. Click Start