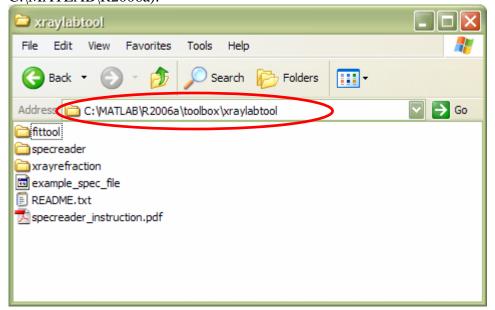
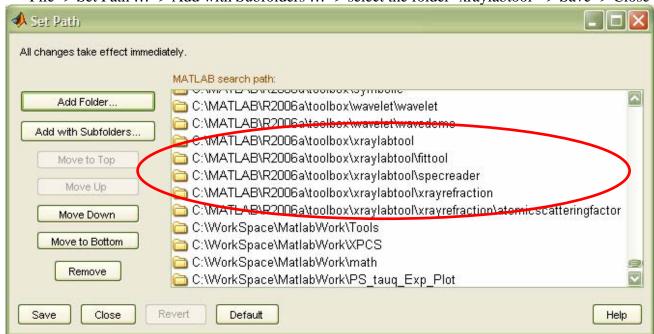
## Quick Guide for Spec Reader (Including 'xrayrefraction' and 'fittool')

## (1) Installation

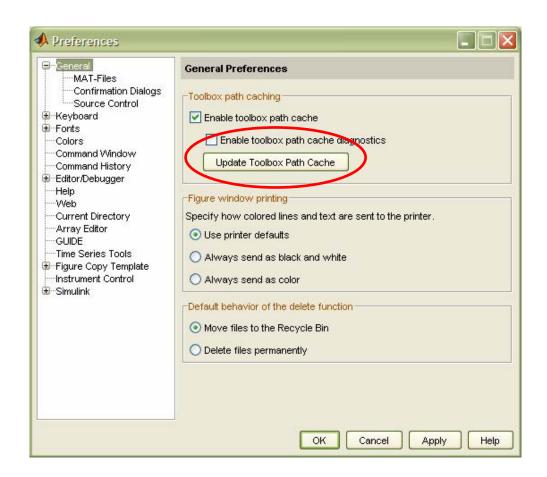
Unzip xraylabtool.zip to \$matlabroot\toolbox\xraylabtool (suppose MatLab is installed to C:\MATLAB\R2006a):



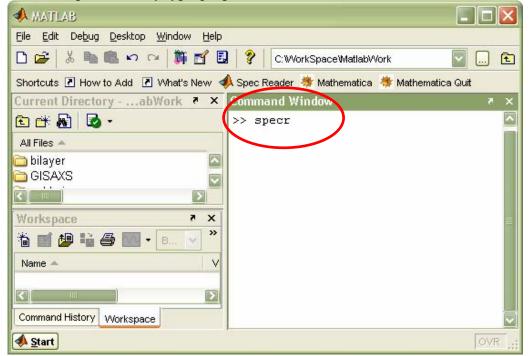
- (2) Set the toolbox path in Matlab:
  - File -> Set Path ... -> Add with Subfolders ... -> select the folder 'xraylabtool' -> Save -> Close



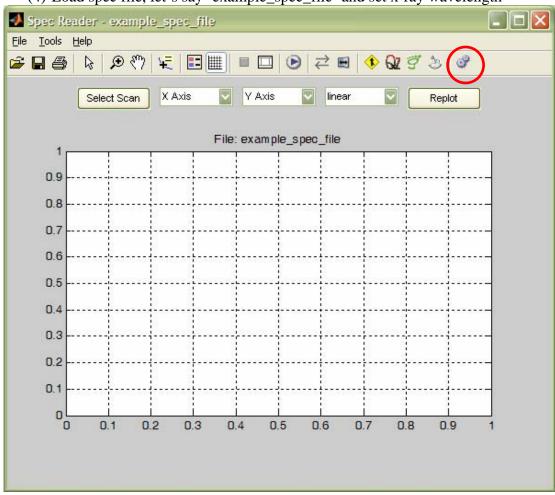
File -> Preferences -> General -> Update Toolbox Path Cache -> OK

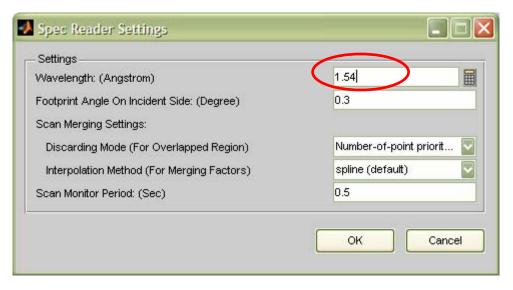


(3) Start spec reader by typing 'specr' in MatLab command window:

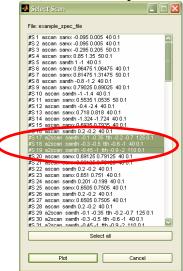


(4) Load spec file, let's say 'example\_spec\_file' and set x-ray wavelength

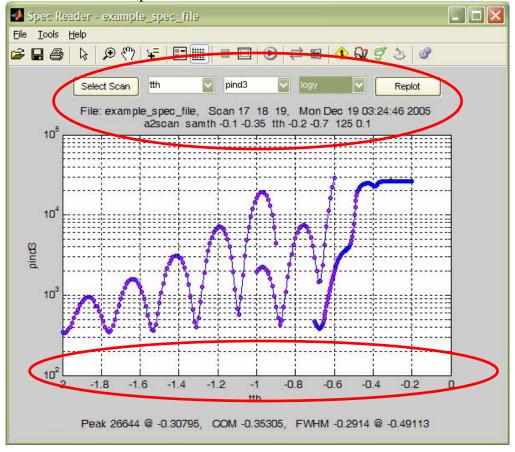




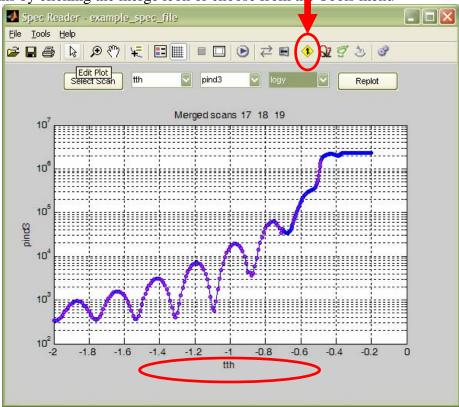
(5) Select scans, for example #17, 18, 19 (Ctrl for multiple selection):



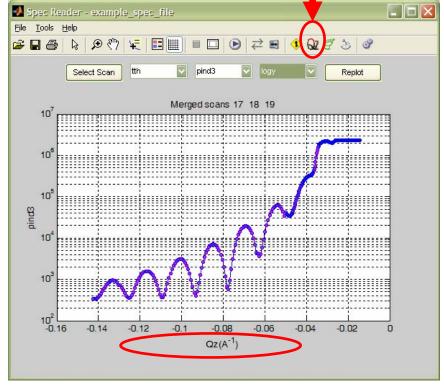
(6) Chang x-axis to tth (2 theta, you have to do all the reflectivity and longitudinal diffuse scan manipulation in 2 theta), y-axis to pind3 (detector), and style to logy. Only the first scan (# 17) is shown in the plot title.



(7) Merge the scans by clicking the merge icon or choose from the Tools menu



(8) If you want to convert tth plot to qz plot, click Qz icon or choose from the Tools menu

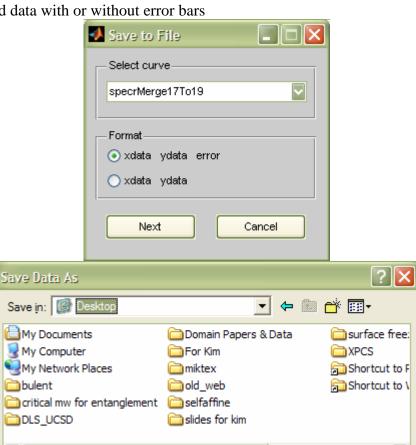


(9) Save the merged data with or without error bars

File name:

Save as type: Data File (\*.dat)

specrMerge 17To 19.dat



 $\triangleright$ 

<u>S</u>ave

Cancel

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