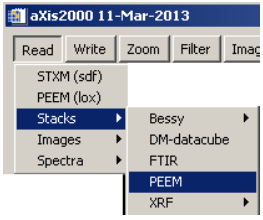
Reading in PEEM stacks from Saga-LS PEEM

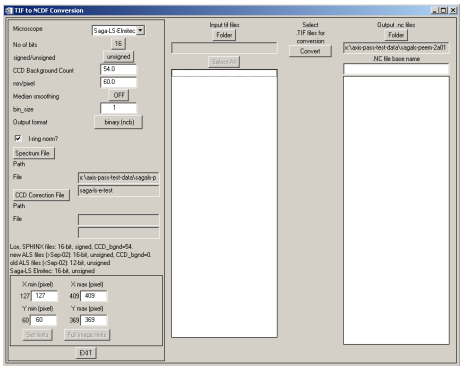
Issue: spectral energies are not saved in a file; must define the energies of the stack images from the {start, step} values used to define the energy regions. (NB in other SR microscopes the photon energies are those read from the beamline control system & not just requested)

1. Use NotePad or similar text editor to generate & save the {start, step} info in a file in SAME folder as the set of *.tif images
   (use *.txt file extension)
   Have a line feed on last line

```
280.   0.5
285.   0.2
290.   1.0
300.   0.0
```

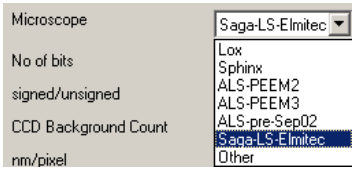
2. Read~Stacks~PEEM





3. Select Saga-LS-Elmitec from list of PEEMs

   (this sets correct parameters for tif read-in)

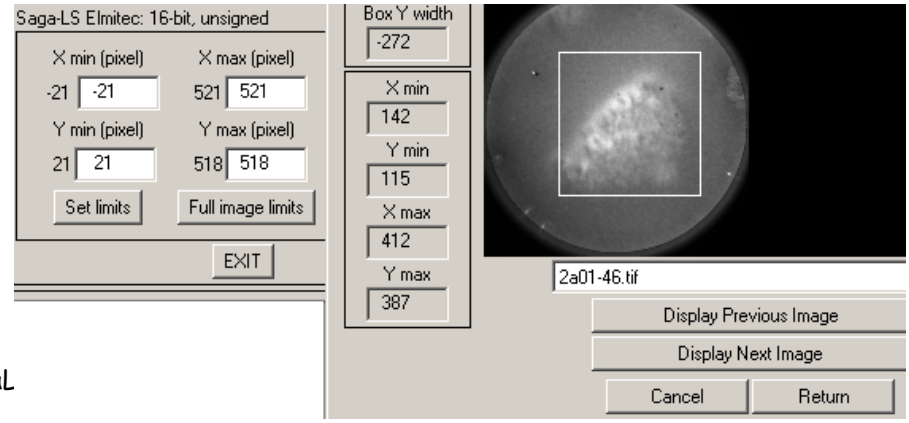


4. Click 'Folder' and click on any *.tif image in the folder containing the set of stack images
   {start, step} z

5. Click 'Spectrum File' and select the *.txt file with the {start, step} data

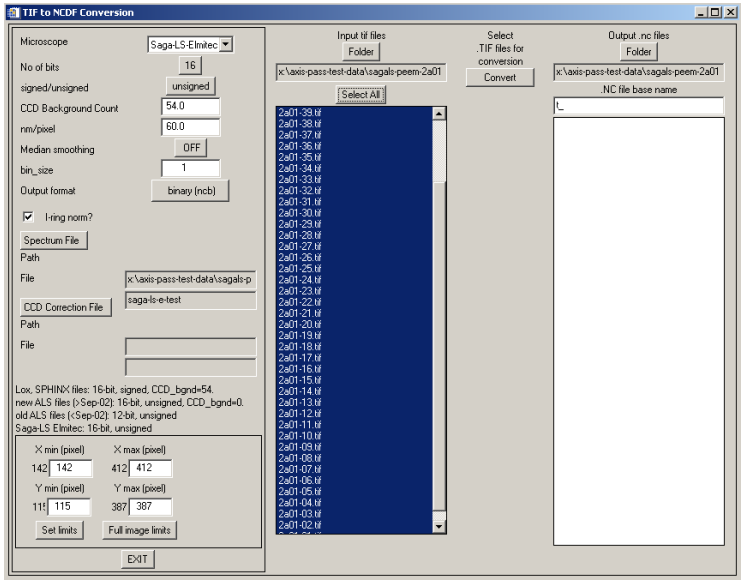
6. Click 'Select all' [the folder should only contain the images associated with the set of energies defined in the {start, step} *.txt file]

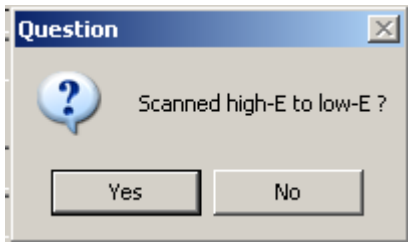
7. (optional) Click 'Set limits' ; a secondary window will open up. A sub-region of the image can be selected (left click, drag, release); push return to report back the (x,y) limits of the region selected



Reading Saga-LS PEEM stacks (continued)

8. Click 'Convert' (which only is active if the spectral energies are defined and the images are selected)





(probably only 'no' works !)

9. Right most column will track the conversion process. At the end you will be asked to provide a filename for the binary stack file

10. Click 'exit' to dismiss the conversion widget.

EXAMPLE (after using yield normalization in Stack_Process with the Io selected from the outer area of the object