

## Procedure of Alpha Source Calibration

1. Create the 1-D energy spectra for all telescopes and write them to asc file after data sorting (use write spectrum button).
2. SSH to spice machine (ask Sergei about this).
3. Copy the asc.file from DAQ area (See Remark 2)
4. cmd > . ./goroot4.00
5. cmd > cd project/ThSource/
6. cmd > run (You will bring up the window from Root)
7. Go to “File” and click “Open spectra asc file” to download the asc file
  - a. Click “All spectra”, the program will then automatically fit the peaks.
  - b. Click “File” and click “Select tele” to select the specific telescopes for calibration)
8. To view the summary spectra and resolution, click “Stop” first and click “Summary” or “Resolution”. Click “All Spectra” to resume the automatic fitting
9. Three files will be generated at the same time:  
resol\_XXX.dat, thres\_XXX.vdef and XXX.ps
10. To print the spectra which are not in the .ps file (such as Summary and Resolution), save the spectra to postscript file first (Click “File” and “Tcanvas save as”)
11. When fitting is finished (message “EOF” will be shown on the SHELL window), go to “File” and click “vdef file save as” to save the vdef.file

## Change the Configuration File

1. To change the ranges of the fitting, go to ThCalib.cfg
2. To change the telescope configuration, go to ThCalib.cc

**Remark**

1. You can stop the fitting and work on SHELL (cmd > Shift z).  
To continue the automatic fitting, type “fg”
2. Type “sftp 02018@u5pc2”, enter password and go to the directory.  
Type “get filename” and “exit”