

Procedure of Alpha Source Calibration

1. Create/load the 1-D energy spectra for all telescopes (def-files/HiRA/1d/1d_strip_raw.tcl) and write them to asc file after data are sorted (click “Write Spectra File”).
2. SSH to spice machine and go to
 \projects\proj4\hira\lobastov\ThSource\
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3. FTP the asc.file from DAQ area to projects area
4. Select channel range for display in Thsource.cfg so that pedestal is not included but alpha peaks are included for all channels
5. cmd > ./ThSource
6. Click “File” and then “Open spectra asc file” to download the asc file
 - a. Click “File” and click “Select tele” to select the specific telescopes for calibration)
 - b. Click “All spectra”, the program will then automatically fit the peaks.
7. To view the summary spectra and resolution, click “Stop” first and click “Summary” or “Resolution”. Click “All Spectra” to resume the automatic fitting
8. Save the calibrations and graphs by going to “File” and selecting the corresponding option.
9. To save the current display, click “File” and “Tcanvas save as”.
10. When fitting is finished, 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 05133@uXpcX”, enter password and go to the directory.
Type “get filename” and “exit”