



Log-in to Ra-cluster:

- ssh -Y basu_s@ra.psi.ch <use your PSI account for logging into Ra>
- Check NoMachine set up documentation if you are using NoMachine (recommended)
 - <https://www.psi.ch/photon-science-data-services/remote-interactive-access>

Set-up:

- Type command: *interactive -p day*
- Logout (**PLEASE**) after tutorial: *exit*

Check documentation:

- <https://www.psi.ch/photon-science-data-services/offline-computing-facility-for-sls-and-swissfel-data-analysis>

Tutorials:

Setup your software:

```
source /mnt/das-gpfs/work/p15881/toolbox/setup
```

Getting into the cluster node:

```
interactive -p day
```

Get into your working folder:

```
cd $work_15881
mkdir <attendee_name> (e.g. mkdir shibom)
cd <attendee name>
```

Generate your XSCALE.INP file:

```
find ../tutorial_data/PepT_SE_145/xtal_*.HKL | awk '{print "INPUT_FILE=", $0; print "MINIMUM_I/SIGMA=0.0"}' > XSCALE.INP
```

ADD following lines to your XSCALE.INP and save in emacs or any editor:

```
OUTPUT_FILE=all_145.HKL
FRIEDEL'S_LAW=FALSE
SAVE_CORRECTION_IMAGES=FALSE
PRINT_CORRELATIONS=FALSE
```

Alternative to above command:

```
cp ../template/XSCALE.INP XSCALE.INP
```

Run XSCALE command:

```
xscale_par
```

Copy a backup of your XSCALE.INP:

```
cp XSCALE.INP XSCALE_old.INP
cp XSCALE.LP XSCALE_old.LP
```

Run CCdataset selection command:

```
../toolbox/mxt_latest_plot.linux all_145.HKL
```

Follow the instruction at command line with and provide the files as per requested.

It will create XSCALE_newccd.INP file

```
cp XSCALE_newccd.INP XSCALE.INP
```

Run XSCALE command:

```
xscale_par
```

[Type the date]