



## MANTID SCRIPT:

```
from qtiGenie import *
from PySlice2 import *
```

```
inst='MER'
iliad_setup(inst)
ext='.raw'
mapfile='one2one_115'
#det_cal_file must be specified if the reduction sends out put to a workspace
cal_file='MER12515.raw'
#load vanadium file
whitebeamfile="12515"
LoadRaw(Filename=whitebeamfile,OutputWorkspace="wb_wksp",LoadLogFiles="0")

#-----
ei=35
rebin_params='-10,.25,30'
#load run

##### normal reduction#####
runs=[12557]
sampleMass=4.0
sampleRMM=163.8124
MonoVanRun=12549
MonoVanIntRange=[-30,30]
monovan_mapfile=mapfile
MonoVanWB="wb_wksp"
#save .spe file
for runfile in runs:
    save_file=inst+str(runfile)+'absNorm.spe'
    print 'data will be saved to: ',save_file
    LoadRaw(Filename=str(runfile),OutputWorkspace="run_wksp",LoadLogFiles="0")

    w1=iliad_abs("wb_wksp","run_wksp",MonoVanRun,MonoVanWB,sampleRMM,sampleMass,ei,rebin_params,mapfile,monovan_mapfile,det_cal_file=cal_
file,norm_method='current', background_range=[12000,18000])
    SaveSPE('w1',save_file)
print type(w1)
```

## HOMER:

Numor: 12557

Map file: one2one\_115.map

Monitor Map file: merlin\_monitors.map

Range for SPE file output: E: 34.95; Emin: -10; E Step: 0.25; E Max 40; Normalize to M1; Fix Ei;

No Back; Solid angle corrections; run diag;

### DIAG:

White beam Vanadium: 12515; BKGD Lo: 12000; BKGD Hi: 18000

Hard Mask – no

V Low 0.1 V Hi 1.5 Factor 2; Stability 10

### ABSOLUTE:

Perform absolute untis correction;

Mono Vanadium Numor: 12549;

Mono Vanadium WB 12515

Map: one2one\_115.map

Range for mono van integration:

Ei: 34.95; E Min -30; E max = 30;

Van Mass: 32.5; Mass Sample 4; RMM sample 163.81

