

# Lambda Notes

## Macro notes

Enclose macros which have energy scans in quotes ‘ ’, not quotes and brackets ‘{ }’.

Good	Bad
<pre>def Etake ‘   lambdaElup -0.001 0.001 50 1 ‘</pre>	<pre>def Etake ‘{   lambdaElup -0.001 0.001 50 1 }‘</pre>

## Recording the detector image as an energy scan

For a 3 second data accumulation

```
snapshot 3
```

## Saving lambda snapshots for non-RIXS scans (old method)

For example, say you would like to look at the lambda spectra at several different microz positions

```
saveLambdascan ‘dscan microz -1 1 20 1’
```

In a macro you must use double quotes. For example:

```
def amacro ‘
  lambdaElup -0.001 0.001 50 1
  saveLambdascan “scan microz -1 1 20 1”
‘
```

## lambdaElup vs roi1 vs red box on image screen

	lambdaElup	roi1	Red box on image screen
Acceptance along energy dispersion direction	Set by software as a function of analyzer dice, detector tilt, etc.	set by software. To set or check use	No effect on any number recorded anywhere
Acceptance perpendicular to energy dispersion direction	Set by lambda_setup	roi1set roi1get	

## lambda detector ioc

```
ssh -X 27idLambda60k
```

```
27idLambda60k start
```

In the control computer

```
start_caQtDM_27idLambda60
```

and the PV for image1 is 27idLambda60k:image1: