

## Amor

### Apparatus for Multi Option Reflectometry

#### short users' guide

##### alignment:

for alignment a **laser** following the neutron path can be activated as an overlap filter:

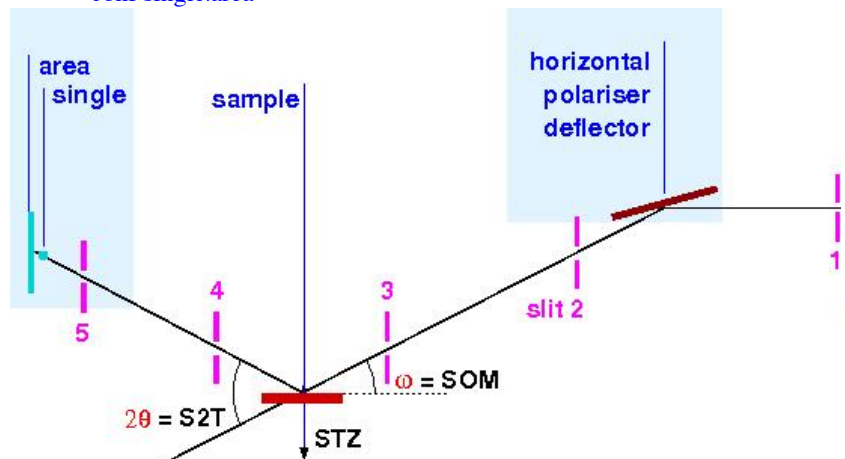
`conf laserfilter`

for the real measurements it is **essential** to return to the configuration *fil*: there are 3 principle set-ups: horizontal, deflected unpolarised, or deflected accessible via:

`conf horizontallpolariserdeflector`

you can switch between single and area detector with:

`conf singlearea`



##### important commands:

check **position** of device:

`<device>`

**drive** device to value

`dr <device> <value>`

**redefine** the value for device:

`sp <device> <value>`

to drive the vertical **slit number** to opening:

`slit <number> <opening>`

or, if all 4 slits should be changed:

`slit <opening1> <2> <3> <4> <5>`

the present openings can be obtained by the command

`slit`

##### scan commands:

**center-scan** for device around value with number setps to either side of *pre-set*:

`cscan <device> <value> <width> <number> <pre-set>`

**step-scan** for device from value1 to value2 with number points and monitor:

`sscan <device> <value1> <value2> <number> <pre-set>`

after a scan it is possible (please check the value reported back!) to get:

`peak`

and then to drive there with

`center`

**magnets:**

switch the **polariser** [**analyser**] to spin up or down neutrons, or off:  
`spin +|0|- [+|0|-]`

drive the **magnetic field** at the sample:  
`dr hsy <field in Oe>`

(re)mount polariser / analyser magnets:  
`conf pbylaby`

mount / unmount 1 T electro magnet:  
`fmaset onloff`

**TOF data acquisition:**

start a TOF **measurement** for a monitor *pre-set*:  
`count monitor <pre-set>`

the data file is created after finishing the data acquisition (a *pre-set* of 4e approx. 1 h)

a (simple) batch-job is a line-by-line list of the commands to be executed  
define a *directory* where the *batch-files* are located:

`batchroot /home/amorInsg/`

execute the *batch-job*:

`batchrun <batch-file>`