SEXAFS sample holder positions

Created 12/09/2011

Positions values are those displayed by the TANGO control system, not those on encoders or rulers

1 Transfert

Motor	Position
sx	9.00
sy	0.42
sz	165.85
sphi	-6ř

(Chambre de prep: 12.5 mm)

2 Bombardement Ionique

Angles are given for +-25ř incidence.

Motor	Position
sx	4.65
sy	8.00
sz	168.23
sphi	-95ř and 35ř

3 Auger

Motor	Position
sx	2.52
sy	-7.77
sz	7.33
sphi	104.0ř

4 Evaporators

4.1 First from fluorescence detector towards CMA100

Motor	Position
sx	4.42
sy	1.94
sz	170.0
sphi	148ř

4.2 Second from fluorescence detector towards CMA100

Motor	Position
sx	4.42
sy	1.94
sz	170.0
sphi	178ř

5 Tournevis plaque FLUO

Motor	Position
sx	5.50
sy	7.77
sz	47.25
sphi	-18ř

6 LEED

Vieilles positions à modifier!!!!!!!!!!
x=0 mm
y=0 mm
$z \approx 15mm$

$\theta = 222 - 223\hat{A}^\circ$

7 Balance

The balance is 180ř from the sample,
65 mm atop and 18mm closer to the evaporators.

Motor	Position
sx	4.42
sy	1.94
sz	105.06
sphi	evap-180ř

8 X-rays normal and grazing

The sample thickness plays an important role when working at grazing incidence: be careful aligning sample in grazing incidence.

8.1 Normal position

In the normal position or "parallel orientation" the sample faces the x-ray beam and the electric field lies parallel to its surface.
The sample faces the beam at -77ř.

Motor	Position
sx	9
sy	4
sz	10.63
sphi	-77ř-"Angle to beam"(0 to 20ř)

8.2 Grazing position

In the grazing position or "perpendicular orientation" the electric field lies perpendicular to the sample surface, the sample surface is then close to parallel to the x-rays path.
The sample faces the beam at -77ř.

Motor	Position
sx	9
sy	5.90 (to be refined)
sz	10.63
sphi	-167ř+"Angle to beam"(0 to 20ř)