

Status report after exp. E084 - FRS (13-15 July 2010)

Expert team (29.07.2010)

Detector test

Beam: $^{238}\text{U}^{73+}$ @ 400 - 700 MeV/u , $i = 2 \times 10^9$ /spill , spill length 1 - 7 s

TA-Matter: SIS-window Ti 5 um
Seetram IN
Target Be 1033 mg/cm² TS1ET5:pos. 33
Be 8045 mg/cm² TS1ET5:pos. 38

S2-Matter: SC21 BC400 0.97 mm
TS3ESA_S: 310 mm
Stripper Nb foil 113 um
TS3ET7US: pos -406.0 mm

S4-Matter: TPC41, TUM 41, TPC42, TUM 42, Slits, SC41 (0.1 cm),
Degrader and ITAG (14 mm PVC stopper).

Fragments: ^{130}Cd (E ~ 355 MeV/u)
 ^{132}Cd (E ~ 355 MeV/u)

Detector	HV setting
MW21A	V 3100
MW22A	V 2900
TPC41	A: 600 V D: 2400 V
TPC42	A: 600 V D: 2400 V
MUSIC 41	C: 8000 V
MUSIC 42	C: 8000 V

Detector	HV setting(V)
SC01	1700
SC21L	1700
SC21R	1700
SC41L	1400
SC41R	1400
IT42L	1200
IT42R	1200
IT43L	1500
IT43R	1500
GeL	+ 4000

Degrader S4 controller: HFSED3VO
Calculated thickness: 3000 mg/cm²
Corresponding position: 184.5 mm

LabView interface for MWPC did not work, due to the presence of the R4-13 in the FRS crate. Threshold set manually (see page 18 logbook).

Command to access threshold for MWPC:

Read the threshold: >@anode_th

Set the threshold: >r4-13::ca cn C N A F VALUE

Where: C: camac crate for RIO

N: slot position CFD

A: address to module (channel)

F: 16 for writing a value

VALUE= 2.097 * threshold_value(mV) + 2097

Command to select trigger :

>r4-13::ca cn C N A F VALUE

Where: C: 3 camac crate for RIO

N: 1 slot position CFD

A: 3 address to module (channel)

F: 17 for trigger

VALUE: 1 MW11

2 MW21

3 MW22

4 MW31

5 MW41

6 MW42

7 MW51

8 MW61