

Status report after exp. S392 (16-23 Oct 2009)

Expert team (10.12.09)

Detector test

Beam: $^{238}\text{U}^{73+}$ @1000 MeV/u , $i = 2 \cdot 10^9$ /spill , spill length 1-4 s, main user.

TA-Matter: SIS-window C 0.035 mg/cm²
Target Be 1626 mg/cm² + Nb 223 mg/cm², TS1ET5: #26

S1-Matter: Al degrader: 2500 mg/cm² + pocket
Finger, Cu 1x1 cm², pos. 5.1 mm, inserted at the beginning, moved out:
21.10.09, 21:56.

S2-Matter: SC21 Sci BC400 3.2 mm TS3ESA_S: 195 mm
SC21 Sci BC400 0.97 mm TS3ESA_S: 310 mm
Al disc degrader
SC22 Sci BC420Q 1 mm
TPC23 (TPC3), TPC24 (TPC4)

S3-Matter SC31 Sci 0.95 mm, pos. 130 mm

S4-Matter: TPC41 (TPC5), MW41, Music41, Music42, TPC42 (TPC6),
SCI40 (BC420Q, 1mm), SCI41 (3.15 mm), Al degrader, SCI42 (2 mm),
RISING Ge crystal ball, Active/Passive stopper, SCI43 (veto paddle, 4 mm).

Severe problems with moving S4 slits left.

Beam aligned at the target with CG01/CG02, all other focal planes using MWPC/TPC.

Detector	HV setting
CG01	70 V
CG02	40 V
CG11	70 V
CG21	70 V

Detector	HV setting
MW11A	2400 V
MW21A	2700 V
MW22A	2700 V
MW31A	2500 V
MW41A (in air)	3000 V

All MWPC worked. MW11 signals reconnected at the Messhuetten blau panel (LRUD before: 1234, after: 4312).

Detector	HV setting(V)
SC01	1700
SC21L	1800 (3 mm), 2000 (1 mm)
SC21R	1650 (3 mm), 1850 (1 mm)
SC22L	1800
SC22R	1900
SC31L	1900 (xx mm)
SC31R	1900 (xx mm)
SC40L	1450
SC40R	1700
SC41L	1500
SC41R	1500
SC42L	1450
SC42R	1700
SC43R (veto)	1800
TPC23 (TPC3)	A: 630, D: 2400
TPC24 (TPC4)	A: 590, D: 2930
TPC41 (TPC5)	A: 610, D: 2400
TPC42 (TPC6)	A: 620, D:
MUSIC41	C: 8000
MUSIC42	C: 8000

Standard optics TA2b-Rising used (RUN81-TA2B-RISING).

Several FRS settings have been used optimized for the production of different fragments ranging from A=167-224.

Active stopper used for ^{200}Os setting only, otherwise passive stopper (10mm plastic).

SEETRAM calibration performed at the end of the run.