

Status report after exp. FRS000 (15-17 Aug 2009)

Expert team (17.08.09)

Detector test

Beam: $^{56}\text{Fe}^{25+}$ @350 MeV/u , $i = 10^2\text{-}10^8$ /spill , spill lenght 2 s (machine cycle 4 s)
parasitic to Cave M (block mode)

TA-Matter: SIS-window C 0.035 mg/cm²
Seetram

S2-Matter: SC21 Sci BC400 0.3 cm
TS3ESA_S: 195 mm

TPC23

diamond (strip) 360 μm

diamond (single) 600 μm

SC22

TPC24

Beam aligned at the target with CG01/CG02, at S2 with MW22.

Detector	HV setting
MW11	pre-amp off
MW21A	no anode signal
MW22A	2400 V

All MWs tested, except MW41 and MW42 (not mounted).

Detector	HV setting(V)
SC21L	2000
SC21R	1850
TPC23	
Anode	750
Drift	2400
TPC24	
Anode	750
Drift	3000
single dd	+ 600 V ($I=0.1\mu\text{A}$)
strip dd	- 400 V($I=0.5\mu\text{A}$)

TDC calibrations for the TPC done, results in agreement with online calibration within 2 mm.

Standard optics TA2b-rising used.

With 2s spill Seetram showed

- total counting rate at S2 : $2 \cdot 10^6$ /spill

while SC21 showed

- total counting rate at S2 : 10^6 /spill .

Maximum intensity on Seetram: $1.8 \cdot 10^8$ /spill , 1 spill = 0.5 s.