

Status report after exp. S389 (24 Sep- 1 Oct 2010)

Expert team (10.10.10)

Beam: $^{64}\text{Ni}^{26+}$ @660 MeV/u (Brho=10.5835 Tm), $I_{\text{max}} = 2 \cdot 10^8$ /spill, spill length =8-10s.

TA-Matter: SIS-window Ti 5 μm
 SEETRAM (as stripper)
 Target Be 2511 mg/cm²
 TS2ET2:pos. 35

S2-Matter: SC21 Sci BC400 0.325 cm
 TS3ESA_S: 250 mm
 Disk Al 2.6 mrad angle
 TS3ED7DS: 81.6 deg
 Wedge Al 2000 g/cm²
 (-67 mm)

S8-Matter: SC81 Sci BC400 0.1 cm
 TH4DI5 : 344 mm

Beam aligned at all focal planes using MWPC and CG.

Detector	HV setting
MW11A	not used
MW21A	V
MW22A	V
MW31A	not used
MW51A	not used
MW71A	not used
MW81A	3500 V
MW82A	3500 V

Detector	HV setting
SC01	1825 V
SC21L	2250 V
SC21R	2000 V
SC81L	V
SC81R	V

| The first current grid at S8 was not working.

Optics used is called FRSTOR3B-TA2-LARGERSPOT.SET.
TAC range S2-S8 : 70 ns .

Primary beam (minimum matter)

Tr S2-S8: % (% predicted by Mocadi)

Tr S8-CC: % (% predicted by Mocadi)

Tr S2-CC: % (% predicted by Mocadi)

| Fragments beam:

I=a few 10^7 /spill

counts at S2 ~500000/spill

counts at S8 ~80000/spill

counts at CC ~50000/spill

Experimental rates: 59Fe: 50000 (? /spill predicted by Mocadi, 5000/spill predicted by LISE)

60Fe: 50000 (5000/spill predicted by LISE)