Exp No. S433 Primary Beam: 58Ni Date 22.10.2012

MBS/file location	File (first) 52Fe_cou_0036_0545	Start 05:12
	File (last)	Stop
Narval/file location	File (first)	Start
	File (last)	Stop

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ Calibration run ☑ Production run

50Fe Coulex 12+

COMMENTS: shift-in-charge

FRS/BEAMLINE elements

- ☑ SEETRAM
- ☐ SCI-01
- ☑ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES

Check if gate valves were open throughout this file:

- ☐ open at START
- ☐ open at STOP

SPILL

spill length: 5s

period: 7s

Setting Fragment

52Fe

FRS setting No.

S433_05

PRIMARY BEAM

Element: 58Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 6.2.10^9

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 4 g/cm²

S2 DEGRADER

TS3ED7...

L (Ladder):

D (Disk): 65.2

VO (Wedge Oben): -218.2

VU (Wedge Unten): -218.2

Nb foil:

SC21: 3.23mm

S4 DEGRADER

HFSED3...

O (Wedge Oben):

U (Wedge Unten):

S0 SLITS

☐ beam stop out

TS2DS3HL (left):

TS2DS3HR (right):

TS2DS3VO (top):

TS2DS3VU (bottom):

S1 SLITS

☐ beam plug out

TS3DS2HL (left): -70

TS3DS2HR (right): +70

S2 SLITS

☐ beam plug out

TS4DS1HL (left): -10

TS4DS1HR (right): +70

S3 SLITS

TS4DS3HL (left): -30

TS4DS3HR (right): +10

S4 SLITS

HFSDS3H (left): -20

HFSDS3H (right): +20

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1: 0.63724

TS3MU2: 0.58074

TS4MU1: 0.4277

HFSMU1: 0.4290

FRS-RATES

(counts/spill)

10 kHrtz : 44.4

10 kHrtz veto dT : 37

SC21L: 3 M

SC21R: 24 M

SC41L: 168 K

SC41R: 176 K

TA1

Element :

Thickness :

Position:

PreSPEC-Trig/red.fact.

- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☑ AgataCal(3)/..10
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☐ p+Agata(7)/.....
- ☑ p+HEC+Lyc(8)/.....
- ☒ p+Agata+Lyc(9)/...
- ☑ Part-SC41(10)/..10
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER

- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates

(Validated/Rejected)

AGATA : 1788/90

FRS : 147

Ta-ToF-LYCCA : 170

HECTOR :

LYCCA

Please check

- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2

Last Filling : 00:30

Status : 6 k

Exp No. 5433	Primary Beam: 58Ni	Date 22.10.2012
MBS/file location	**File (first)** 52Fe_cou_ca05_0541 **File (last)** 52Fe_cou_ca05_0544	**Start** 03:40 **Stop**
Narval/file location	**File (first)** **File (last)** 544	**Start** **Stop** 04:45

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ Calibration run ☒ Production run

52Fe couleur 12+

COMMENTS: **shift-in-charge**

FRS/BEAMLINE elements

- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES

Check if gate valves were open throughout this file:

- ☐ open at START
- ☐ open at STOP

SPILL

spill length: 5s

period: 7s

Setting Fragment

52Fe

FRS setting No.

5433_05

PRIMARY BEAM

Element: 58Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 6e9

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 4 g/cm²

S2 DEGRADER

TS3ED7...

L (Ladder):

D (Disk): 65.2

VO (Wedge Oben): -218.2

VU (Wedge Unten): -218.2

Nb foil:

SC21: 3.23 mm

S4 DEGRADER

HFSED3...

O (Wedge Oben):

U (Wedge Unten):

S0 SLITS

☐ beam stop out

TS2DS3HL (left):

TS2DS3HR (right):

TS2DS3VO (top):

TS2DS3VU (bottom):

S1 SLITS

☐ beam plug out

TS3DS2HL (left): -20

TS3DS2HR (right): +20

S2 SLITS

☐ beam plug out

TS4DS1HL (left): -10

TS4DS1HR (right): +70

S3 SLITS

TS4DS3HL (left): -30

TS4DS3HR (right): +10

S4 SLITS

HFSDS3H (left): -20

HFSDS3H (right): +20

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1: 0.63744

TS3MU2: 0.58074

TS4MU1: 0.4277

HFSMU1: 0.4290

FRS-RATES

(counts/spill)

10 kHrtz : 49.3 K

10 kHrtz veto dT : 41.8K

SC21L: 3.02 M

SC21R: 2.4 M

SC41L: 183 K

SC41R: 180K

TA1

Element :

Thickness :

Position:

PreSPEC-Trig/red.fact.

- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/..10..
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☐ p+Agata(7)/.....
- ☑ p+HEC+Lyc(8)/.....
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/..10..
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER

- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates

(Validated/Rejected)

AGATA : 1000/90

FRS : 150 K

Ta-ToF-LYCCA : 170 K

HECTOR :

LYCCA

Please check

- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2

Last Filling : 20:30

Status : OK

Exp No. S433 Primary Beam: ^{58}Ni Date 22.12.2017

MBS/file location	File (first) 52Fe_coul_an350525	Start 00:35
/u/Beam 03/oct16 12/data	File (last)	Stop
Narval/file location	File (first)	Start
	File (last)	Stop

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ Calibration run ☒ Production run

^{52}Fe coulex 12 t

COMMENTS: shift-in-charge

FRS/BEAMLINE elements
- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES
Check if gate valves were open throughout this file:
- ☐ open at START
- ☐ open at STOP

SPILL
- spill length: 5 s
- period: 7 s

Setting Fragment
^{52}Fe

FRS setting No.
S433_05

PRIMARY BEAM
- Element: ^{58}Ni
- SIS energy [MeV/u]: 600
- Intensity-SEETRAM:

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number: 36
- element: Be
- thickness: 4 g/cm^2

S2 DEGRADER
TS3ED7...
- L (Ladder):
- D (Disk): 65.2
- VO (Wedge Oben): -218.2
- VU (Wedge Unten): -218.2
- Nb foil: ~~3-2-3mm~~
- SC21: 3.23 mm

S4 DEGRADER
HFSED3...
- O (Wedge Oben):
- U (Wedge Unten):

S0 SLITS
☐ beam stop out
- TS2DS3HL (left):
- TS2DS3HR (right):
- TS2DS3VO (top):
- TS2DS3VU (bottom):

S1 SLITS
☐ beam plug out
- TS3DS2HL (left): -20
- TS3DS2HR (right): +20

S2 SLITS
☐ beam plug out
- TS4DS1HL (left): -10
- TS4DS1HR (right): +70

S3 SLITS
- TS4DS3HL (left): -30
- TS4DS3HR (right): +10

S4 SLITS
- HFSDS3H (left): -20
- HFSDS3H (right): +20
- Pb Brick (top):
- Pb Brick (bottom):

MAGNETS
Field values from Hall probes:
- TS3MU1: 0.63744
- TS3MU2: 0.58074
- TS4MU1: 0.4277
- HFSMU1: 0.4290

FRS-RATES
(counts/spill)
- 10 kHrtz : ~~59.7~~ k
- 10 kHrtz veto dT : ~~24.3~~ k
- SC21L: 3.01
- SC21R: ~~2.709~~
- SC41L: 180 k
- SC41R: 177 k

TA1
- Element :
- Thickness :
- Position:

PreSPEC-Trig/red.fact.
- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/.10.
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☐ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/.....
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/.10
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER
- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates
(Validated/Rejected)
- AGATA : 1861 / 80
- FRS : 148 k
- Ta-ToF-LYCCA : 109 k
- HECTOR :

LYCCA
Please check
- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2
- Last Filling : 00:30
- Status : ok

Exp No. S433 | Primary Beam: 58Ni | Date 21.10.2012

MBS/file location: /u/da02/oct10_12/data
File (first): 52Fe_empty_a134_0515
File (last): 52Fe_empty_a135_0524
Start: 22:28
Stop: 0030

Narval/file location: 0034_52Fe_Empty_FOCUS
File (first):
File (last): run # 34
Start:
Stop:

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ Calibration run ☒ Production run

52Fe calibr - here: Empty target BG measurement

COMMENTS: shift-in-charge

Empty target run

FRS/BEAMLINE elements

- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☐ TA1
- ☒ TaDSSD

GATE VALVES

Check if gate valves were open throughout this file:

- ☐ open at START
- ☐ open at STOP

SPILL

spill length: 5s

period: 7s

Setting Fragment

52Fe

FRS setting No.

S433_05

PRIMARY BEAM

Element: 58Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 5,9 x 10^9

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 4 g/cm²

S2 DEGRADER

TS3ED7...

L (Ladder):

D (Disk): 67

VO (Wedge Oben): -218,2

VU (Wedge Unten): -218,2

Nb foil:

SC21: 3,23 mm

S4 DEGRADER

HFSED3...

O (Wedge Oben):

U (Wedge Unten):

S0 SLITS

☐ beam stop out

TS2DS3HL (left):

TS2DS3HR (right):

TS2DS3VO (top):

TS2DS3VU (bottom):

S1 SLITS

☐ beam plug out

TS3DS2HL (left): -20

TS3DS2HR (right): +20

S2 SLITS

☐ beam plug out

TS4DS1HL (left): -10

TS4DS1HR (right): +70

S3 SLITS

TS4DS3HL (left): -30

TS4DS3HR (right): +10

S4 SLITS

HFSDS3H (left): -20

HFSDS3H (right): +20

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1:

TS3MU2:

TS4MU1:

HFSMU1:

FRS-RATES

(counts/spill)

10 kHrtz: 35,44

10 kHrtz veto dT: 28,14

SC21L: 1,9 M

SC21R: 2,1 M

SC41L: 1734

SC41R: 1684

TA1

Element:

Thickness:

Position:

PreSPEC-Trig/red.fact.

- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/.....
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☐ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/.....
- ☒ p+Agata+Lyc(9)/.....
- ☒ Part-SC41(10)/.....
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER

- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates

~~(Validated/Rejected)~~

AGATA: 128 1188/90

FRS: 1414/1224

Ta-ToF-LYCCA: 1584

HECTOR:

LYCCA

Please check

- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2

Last Filling: 18:27

Status: o.k.

LYCCA Run-Sheet PRESPEC-AGATA Campaign

For instructions, please see the PRESPEC-AGATA elog entry 2012-10-01-fs/1
or consult the LYCCA folder!

Date: 21.10.2012 **Time:** 23:10

Data file : /rida02/oct16_12/data/52Fe_empty_ar34_0517

Leakage currents and bias DSSSD and CsI detectors:

BIAS CsI Wall: - 34.8 V

BIAS DSSSD Wall: -49.9 V

BIAS DSSSD Target: -49.8 V

HV 0/1: -570 nA	**HV 1/1:** -3720 nA	**HV 2/1:** -360 nA	**HV 3/1:** -2190 nA
HV 0/2: -4220 nA	**HV 1/2:** -2770 nA	**HV 2/2:** -1742 nA	**HV 3/2:** -778 nA
HV 0/3: -3700 nA	**HV 1/3:** -2410 nA	**HV 2/3:** -1431 nA	
HV 0/4: -4260 nA	**HV 1/4:** -388 nA	**HV 2/4:** -1880 nA	**HV 3/4:** -6550 nA

BIAS and currents ToF-detector PMTs:

BIAS ToF Start (600-615):	900 V	**Average currents ToF Start:**	644 µA
BIAS ToF Target (501-503):	750 V	**Average currents ToF Target:**	653 µA
BIAS ToF Stop (100-215):	700 V	**Average currents ToF Stop:**	251 µA

Signal heights ToF monitors: (all signals are there)

ToF Start (LYC5): **1.0 V (5µs)** or ☐ **connected to CFD (no monitor)**

ToF Target (LYC6): **1.0 V (5µs)** or ☐ **connected to CFD (no monitor)**

ToF Stop (LYC7): **0.4 (25ns)** or ☐ **connected to CFD (no monitor)**

All RAW LYCCA spectra checked and zeroed: Yes

If the DSSSD or CsI leakage currents exceed 10 µA or
if the ToF monitor signals on the scope are OUTSIDE 0.3 V < height < 3 V

CONTACT LYCCA PERSONNEL!!

LYCCA Run-Sheet PRESPEC-AGATA Campaign

For instructions, please see the PRESPEC-AGATA elog entry 2012-10-01-fs/1
or consult the LYCCA folder!

Date: 21.10.2012 **Time:** 17:10

Data file : /rida02/oct16_12/data/52Fe_cou_ar33_0510

Leakage currents and bias DSSSD and CsI detectors:

BIAS CsI Wall: - 34.8 V

BIAS DSSSD Wall: -49.9 V

BIAS DSSSD Target: -49.8 V

HV 0/1: -567 nA	**HV 1/1:** -3700 nA	**HV 2/1:** -344 nA	**HV 3/1:** -2190 nA
HV 0/2: -4050 nA	**HV 1/2:** -2730 nA	**HV 2/2:** -1742 nA	**HV 3/2:** -776 nA
HV 0/3: -3540 nA	**HV 1/3:** -2370 nA	**HV 2/3:** -1431 nA	
HV 0/4: -4250 nA	**HV 1/4:** -383 nA	**HV 2/4:** -1880 nA	**HV 3/4:** -6450 nA

BIAS and currents ToF-detector PMTs:

BIAS ToF Start (600-615): 900 V **Average currents ToF Start:** 645 µA

BIAS ToF Target (501-503): 750 V **Average currents ToF Target:** 653 µA

BIAS ToF Stop (100-215): 700 V **Average currents ToF Stop:** 253 µA

Signal heights ToF monitors: (all signals are there)

ToF Start (LYC5): **1.3 V (5µs)** or ☐ **connected to CFD (no monitor)**

ToF Target (LYC6): **1.3 V (5µs)** or ☐ **connected to CFD (no monitor)**

ToF Stop (LYC7): **0.5 (25ns)** or ☐ **connected to CFD (no monitor)**

All RAW LYCCA spectra checked and zeroed: Yes

If the DSSSD or CsI leakage currents exceed 10 µA or
if the ToF monitor signals on the scope are OUTSIDE 0.3 V < height < 3 V

CONTACT LYCCA PERSONNEL!!

Exp No. S433 | Primary Beam: ^{58}Ni | Date 21.10.2012

MBS/file location /lida02/oct16.12/data	File (first) 52Te/cou_ar33_0506 File (last) -0514	Start 16:13 Stop 18:00
Narval/file location	File (first) File (last) run # 33	Start Stop 18:00

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ Calibration run ☒ Production run

52Te coulex 12+

COMMENTS: **shift-in-charge**

Narval restarted after back pressure problem

FRS/BEAMLINE elements
- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES
Check if gate valves were open throughout this file:
- ☐ open at START
- ☐ open at STOP

SPILL
- spill length: 5s
- period: 7s

Setting Fragment: 52Te

FRS setting No.: S433_05

PRIMARY BEAM
- Element: ^{58}Ni
- SIS energy [MeV/u]: 600
- Intensity-SEETRAM: 6,2 ×10^9

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number: 36
- element: Be
- thickness: 4g/cm²

S2 DEGRADER
TS3ED7...
- L (Ladder):
- D (Disk): 65
- VO (Wedge Oben): -218.2
- VU (Wedge Unten): -218.2
- Nb foil:
- SC21: 3,25mm

S4 DEGRADER
HFSED3...
- O (Wedge Oben): /
- U (Wedge Unten): /

S0 SLITS
☐ beam stop out
- TS2DS3HL (left): /
- TS2DS3HR (right): /
- TS2DS3VO (top): /
- TS2DS3VU (bottom): /

S1 SLITS
☐ beam plug out
- TS3DS2HL (left): -20
- TS3DS2HR (right): +70

S2 SLITS
☐ beam plug out
- TS4DS1HL (left): -10
- TS4DS1HR (right): +10

S3 SLITS
- TS4DS3HL (left): -30
- TS4DS3HR (right): +10

S4 SLITS
- HFSDS3H (left): -20
- HFSDS3H (right): +20
- Pb Brick (top):
- Pb Brick (bottom):

MAGNETS
Field values from Hall probes:
- TS3MU1: 0,63734
- TS3MU2: 0,58074
- TS4MU1: 0,4277
- HFSMU1: 0,4289

FRS-RATES
(counts/spill)
- 10 kHrtz : 3694
- 10 kHrtz veto dT : 2844
- SC21L: 2,05M
- SC21R: 2,54M
- SC41L: 1804
- SC41R: 1744

TA1
- Element : Au
- Thickness : 400 mg/cm²
- Position: forward

PreSPEC-Trig/red.fact.
- ☐ Pulser(1) /........
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/.10.
- ☐ HEC Cal(4)/......
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.......
- ☐ p+Agata(7)/......
- ☒ p+HEC+Lyc(8)/...0
- ☒ p+Agata+Lyc(9)/..2
- ☒ Part-SC41(10)/.12.
- ☐ Spill-on(12)/.......
- ☐ Spill-off(13)/.......

FRS-TRIGGER
- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates
~~(Validated/Rejected)~~ trel/acc
- AGATA : 128 1560/76
- FRS : 1454/1214
- Ta-ToF-LYCCA : 1704
- HECTOR :

LYCCA
Please check
- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2
- Last Filling : 12:27
- Status : ok.

LYCCA Run-Sheet PRESPEC-AGATA Campaign

For instructions, please see the PRESPEC-AGATA elog entry 2012-10-01-fs/1
or consult the LYCCA folder!

Date: 21.10.2012 **Time:** 15:19

Data file : /rida02/oct16_12/data/52Fe_cou_ar32_0504

Leakage currents and bias DSSSD and CsI detectors:

BIAS CsI Wall: - 34.8 V

BIAS DSSSD Wall: -49.9 V

BIAS DSSSD Target: -49.8 V

HV 0/1: -560 nA	**HV 1/1:** -3680 nA	**HV 2/1:** -439 nA	**HV 3/1:** -2180 nA
HV 0/2: -4000 nA	**HV 1/2:** -2700 nA	**HV 2/2:** -1818 nA	**HV 3/2:** -781 nA
HV 0/3: -3470 nA	**HV 1/3:** -2350 nA	**HV 2/3:** -1434 nA	
HV 0/4: -4230 nA	**HV 1/4:** -378 nA	**HV 2/4:** -1880 nA	**HV 3/4:** -6450 nA

BIAS and currents ToF-detector PMTs:

BIAS ToF Start (600-615):	900 V	**Average currents ToF Start:**	645 µA
BIAS ToF Target (501-503):	750 V	**Average currents ToF Target:**	653 µA
BIAS ToF Stop (100-215):	700 V	**Average currents ToF Stop:**	250 µA

Signal heights ToF monitors: (all signals are there)

ToF Start (LYC5): 1.5 V (5µs) ~~or ☐ connected to CFD (no monitor)~~

ToF Target (LYC6): ~~1.8 V (5µs) or ☐ connected to CFD (no monitor)~~

ToF Stop (LYC7): ~~very low (25ns) or ☐ connected to CFD (no monitor)~~

All RAW LYCCA spectra checked and zeroed: Yes

If the DSSSD or CsI leakage currents exceed 10 µA or
if the ToF monitor signals on the scope are OUTSIDE 0.3 V < height < 3 V

CONTACT LYCCA PERSONNEL!!

Exp No. | Primary Beam: | Date

MBS/file location
//Writing02/oct16_12/data

File (first) 52Fe_cou_ar32_0494
File (last) 0505

Start 12:55
Stop 15:48

Narval/file location

File (first) run 32
File (last)

Start
Stop

PURPOSE OF MEASUREMENT: (Centered Isotope) 52Fe

☐ Calibration run ☐ Production run

COMMENTS: **shift-in-charge**

FRS/BEAMLINE elements

- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES
Check if gate valves were open throughout this file:
- ☐ open at START
- ☐ open at STOP

SPILL
- spill length: 5s
- period: 2s

Setting Fragment
52F

FRS setting No.
S433-05

PRIMARY BEAM
- Element: 58Ni
- SIS energy [MeV/u]:
- Intensity-SEETRAM: 6.2x10^9

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number: 36
- element: Be
- thickness: 4g/cm²

S2 DEGRADER
TS3ED7...
- L (Ladder):
- D (Disk): 65
- VO (Wedge Oben): -218.2
- VU (Wedge Unten): -218.2
- Nb foil:
- SC21: 3.25mm

S4 DEGRADER
HFSED3...
- O (Wedge Oben):
- U (Wedge Unten):

S0 SLITS
☐ beam stop out
- TS2DS3HL (left):
- TS2DS3HR (right):
- TS2DS3VO (top):
- TS2DS3VU (bottom):

S1 SLITS
☐ beam plug out
- TS3DS2HL (left): -20
- TS3DS2HR (right): 20

S2 SLITS
☐ beam plug out
- TS4DS1HL (left): -10
- TS4DS1HR (right): 70

S3 SLITS
- TS4DS3HL (left): -30
- TS4DS3HR (right): 10

S4 SLITS
- HFSDS3H (left): -20 ~~10~~
- HFSDS3H (right): 20
- Pb Brick (top):
- Pb Brick (bottom):

MAGNETS
Field values from Hall probes:
- TS3MU1: 0.63744
- TS3MU2: 0.58074
- TS4MU1: 0.4277
- HFSMU1: 0.4290

FRS-RATES
(counts/spill)
- 10 kHrtz :
- 10 kHrtz veto dT :
- SC21L: 3.03M
- SC21R: 2.47M
- SC41L: 163K
- SC41R: 158K

TA1
- Element : Au
- Thickness : 400mg/cm²
- Position: forward

PreSPEC-Trig/red.fact.
- ☐ Pulser(1) /........
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/......
- ☐ HEC Cal(4)/......
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.......
- ☐ p+Agata(7)/......
- ☒ p+HEC+Lyc(8)/.....
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/.....
- ☐ Spill-on(12)/.......
- ☐ Spill-off(13)/.......

FRS-TRIGGER
- ☐ SCI21
- ☐ SCI41
- ☐ Other:

PreSPEC-Rates
(Validated/Rejected)
- AGATA :
- FRS :
- Ta-ToF-LYCCA :
- HECTOR :

LYCCA
Please check
- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2
- Last Filling : 12:27
- Status : ok

LYCCA Run-Sheet PRESPEC-AGATA Campaign

For instructions, please see the PRESPEC-AGATA elog entry 2012-10-01-fs/1
or consult the LYCCA folder!

Date: 21.10.2012 **Time:** 11:36

Data file : /rida02/oct16_12/data/52Fe_cou_ar29_0489

Leakage currents and bias DSSSD and CsI detectors:

BIAS CsI Wall: - 34.8 V

BIAS DSSSD Wall: -49.9 V

BIAS DSSSD Target: -49.8 V

HV 0/1: -555 nA	**HV 1/1:** -3670 nA	**HV 2/1:** -379 nA	**HV 3/1:** -2190 nA
HV 0/2: -3940 nA	**HV 1/2:** -2680 nA	**HV 2/2:** -1809 nA	**HV 3/2:** -782 nA
HV 0/3: -3430 nA	**HV 1/3:** -2330 nA	**HV 2/3:** -1427 nA	
HV 0/4: -4230 nA	**HV 1/4:** -374 nA	**HV 2/4:** -1881 nA	**HV 3/4:** -6150 nA

BIAS and currents ToF-detector PMTs:

BIAS ToF Start (600-615):	900 V	**Average currents ToF Start:**	644 µA
BIAS ToF Target (501-503):	750 V	**Average currents ToF Target:**	653 µA
BIAS ToF Stop (100-215):	700 V	**Average currents ToF Stop:**	250 µA

Signal heights ToF monitors: (all signals are there)

ToF Start (LYC5): ~~1.5 V (5µs)~~ or ☐ connected to CFD (no monitor)

ToF Target (LYC6): ~~1.8 V (5µs)~~ or ☐ connected to CFD (no monitor)

ToF Stop (LYC7): very low (25ns) or ☐ connected to CFD (no monitor)

All RAW LYCCA spectra checked and zeroed: Yes

If the DSSSD or CsI leakage currents exceed 10 µA or
if the ToF monitor signals on the scope are OUTSIDE 0.3 V < height < 3 V

CONTACT LYCCA PERSONNEL!!

Exp No. | Primary Beam: 58Ni | Date 21/10/12

MBS/file location: fd/nisny02/oct16_12/data/
File (first): 52Fe_cal_ar29_480
File (last): 493
Start: 09:40
Stop:

Narval/file location: agatadisk/data/12_10_16/gacbea/...
File (first): run29
File (last): run30
Start:
Stop:

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ Calibration run ☐ Production run

52Fe

COMMENTS:

shift-in-charge

FRS/BEAMLINE elements

- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES

Check if gate valves were open throughout this file:

- ☐ open at START
- ☐ open at STOP

SPILL

spill length: 5s

period: 2s

Setting Fragment: 52Fe

FRS setting No.: S433-05

PRIMARY BEAM

Element: 58Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 6.2×10⁹

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 4 g/cm²

S2 DEGRADER

TS3ED7...

L (Ladder):

D (Disk): 65

VO (Wedge Oben): -218.2

VU (Wedge Unten): -218.2

Nb foil:

SC21: 3.25mm

S4 DEGRADER

HFSED3...

O (Wedge Oben):

U (Wedge Unten):

S0 SLITS

☐ beam stop out

TS2DS3HL (left):

TS2DS3HR (right):

TS2DS3VO (top):

TS2DS3VU (bottom):

S1 SLITS

☐ beam plug out

TS3DS2HL (left): -20

TS3DS2HR (right): 20

S2 SLITS

☐ beam plug out

TS4DS1HL (left): -10

TS4DS1HR (right): 10

S3 SLITS

TS4DS3HL (left): -30

TS4DS3HR (right): 10

S4 SLITS

HFSDS3H (left): -20

HFSDS3H (right): 20

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1: 0.63734

TS3MU2: 0.58074

TS4MU1: 0.4277

HFSMU1: 0.4290

FRS-RATES

(counts/spill)

10 kHrtz :

10 kHrtz veto dT :

SC21L: 3.06M

SC21R: 2.6M

SC41L: 185K

SC41R: 171K

TA1

Element : Au

Thickness : 400 mg/cm²

Position: forward

PreSPEC-Trig/red.fact.

- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/.....
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☐ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/.....
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/.....
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER

- ☐ SCI21
- ☐ SCI41
- ☐ Other:

PreSPEC-Rates

(Validated/Rejected)

AGATA :

FRS :

Ta-ToF-LYCCA :

HECTOR :

LYCCA

Please check

- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2

Last Filling : 06:29

Status : ok

Exp No. | Primary Beam: 58Ni | Date 21/10/12

MBS/file location: /rio4a02/oct16_12/data/52Fe...	File (first): File (last): 467	Start: Stop: 6:45
Narval/file location: agatadisks/data/12.10.16jadeo/26urat	File (first): 29 File (last): 30	Start: Stop:

PURPOSE OF MEASUREMENT: (Centered Isotope) 52Fe ☐ Calibration run ☐ Production run

COMMENTS:

shift-in-charge: M. DONCEL

FRS/BEAMLINE elements

- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES

Check if gate valves were open throughout this file:

- ☐ open at START
- ☐ open at STOP

SPILL

- spill length: 5s
- period: 2s

Setting Fragment: 52Fe

FRS setting No.: S433-05

PRIMARY BEAM

- Element: 58Ni
- SIS energy [MeV/u]: 600
- Intensity-SEETRAM: 6.2·10⁹

PROD. TARGET

TS1ET5HS, TS1ET5VS:

- number: 36
- element: Be
- thickness: 4g/cm²

S2 DEGRADER

TS3ED7...

- L (Ladder):
- D (Disk): 65
- VO (Wedge Oben): -218.2
- VU (Wedge Unten): -218.2
- Nb foil:
- SC21: 3.25mm

S4 DEGRADER

HFSED3...

- O (Wedge Oben):
- U (Wedge Unten):

S0 SLITS

- ☐ beam stop out
- TS2DS3HL (left):
- TS2DS3HR (right):
- TS2DS3VO (top):
- TS2DS3VU (bottom):

S1 SLITS

- ☐ beam plug out
- TS3DS2HL (left): -20
- TS3DS2HR (right): 20

S2 SLITS

- ☐ beam plug out
- TS4DS1HL (left): -10
- TS4DS1HR (right): 10

S3 SLITS

- TS4DS3HL (left): -30
- TS4DS3HR (right): 10

S4 SLITS

- HFSDS3H (left): -20
- HFSDS3H (right): 20
- Pb Brick (top):
- Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

- TS3MU1: 0.63734
- TS3MU2: 0.58074
- TS4MU1: 0.4277
- HFSMU1: 0.4281

FRS-RATES

(counts/spill)

- 10 kHrtz: 56168
- 10 kHrtz veto dT: 48531
- SC21L: 74K
- SC21R: 547K
- SC41L: 168K
- SC41R: 183K

TA1

- Element: Au
- Thickness: 400mg/cm²
- Position: forward

PreSPEC-Trig/red.fact.

- ☐ Pulser(1) /........
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/......
- ☐ HEC Cal(4)/......
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.......
- ☐ p+Agata(7)/......
- ☒ p+HEC+Lyc(8)/...
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/.....
- ☐ Spill-on(12)/.......
- ☐ Spill-off(13)/.......

FRS-TRIGGER

- ☐ SCI21
- ☐ SCI41
- ☐ Other:

PreSPEC-Rates

(Validated/Rejected)

- AGATA: 3.6k
- FRS: 14.7k
- Ta-ToF-LYCCA: 157k
- HECTOR:

LYCCA

Please check

- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2

- Last Filling: 06:00
- Status: OK

Exp No. | Primary Beam: 58Ni | Date 21/10/12

MBS/file location: /nfdaq2/oct16_12/data/s2fe
File (first): 457
File (last):
Start:
Stop: 4:30

Narval/file location: /data/data1/12_10_16/data/fe
File (first): 29 30
File (last):
Start:
Stop:

PURPOSE OF MEASUREMENT: (Centered Isotope) 52Fe ☐ Calibration run ☐ Production run

COMMENTS:

shift-in-charge: M. Dalcer

FRS/BEAMLINE elements
- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES
Check if gate valves were open throughout this file:
- ☐ open at START
- ☐ open at STOP

SPILL
- spill length: 5s
- period: 2s

Setting Fragment: 52Fe

FRS setting No.: S433-05

PRIMARY BEAM
- Element: 58Ni
- SIS energy [MeV/u]: 600
- Intensity-SEETRAM: 6.36.10^9

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number: 36
- element: Be
- thickness: 4 mg/cm²

S2 DEGRADER
TS3ED7...
- L (Ladder):
- D (Disk): 65
- VO (Wedge Oben): -218.2
- VU (Wedge Unten): -218.2
- Nb foil:
- SC21: 3.25 mm

S4 DEGRADER
HFSED3...
- O (Wedge Oben):
- U (Wedge Unten):

S0 SLITS
☐ beam stop out
- TS2DS3HL (left):
- TS2DS3HR (right):
- TS2DS3VO (top):
- TS2DS3VU (bottom):

S1 SLITS
☐ beam plug out
- TS3DS2HL (left): -20
- TS3DS2HR (right): 20

S2 SLITS
☐ beam plug out
- TS4DS1HL (left): -10
- TS4DS1HR (right): 70

S3 SLITS
- TS4DS3HL (left): -30
- TS4DS3HR (right): 10

S4 SLITS
- HFSDS3H (left): -20
- HFSDS3H (right): 20
- Pb Brick (top):
- Pb Brick (bottom):

MAGNETS
Field values from Hall probes:
- TS3MU1: 0.63734
- TS3MU2: 0.58074
- TS4MU1: 0.4277
- HFSMU1: 0.4281

FRS-RATES (counts/spill)
- 10 kHrtz : 55014
- 10 kHrtz veto dT : 46946
- SC21L: 89K
- SC21R: 447K
- SC41L: 182K
- SC41R: 183K

TA1
- Element : Au
- Thickness : 400 mg/cm²
- Position: forward

PreSPEC-Trig/red.fact.
- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/.....
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☐ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/...
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/.....
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER
- ☐ SCI21
- ☐ SCI41
- ☐ Other:

PreSPEC-Rates (Validated/Rejected)
- AGATA : 3.7K
- FRS : 152K
- Ta-ToF-LYCCA : 167K
- HECTOR :

LYCCA
Please check
- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2
- Last Filling : 12:05
- Status : OK

Exp No.

Primary Beam: 58Ni

Date 24/10/12

MBS/file location: /nda02/oct16-12/data/52Fe...

File (first):
File (last): 445

Start:
Stop: 2:15

Narval/file location: agatadata/data/12-10-16 agata/2011

File (first): 29
File (last): 30

Start:
Stop:

PURPOSE OF MEASUREMENT: (Centered Isotope) 52Fe

☐ Calibration run ☐ Production run

COMMENTS:

shift-in-charge: M.Doncel

FRS/BEAMLINE elements

- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES

Check if gate valves were open throughout this file:

- ☐ open at START
- ☐ open at STOP

SPILL

- spill length: 5s
- period: 2s

Setting Fragment: 52Fe

FRS setting No.: S433-05

PRIMARY BEAM

- Element: 58Ni
- SIS energy [MeV/u]: 600
- Intensity-SEETRAM: 6.2·10⁹

PROD. TARGET

TS1ET5HS, TS1ET5VS:

- number: 36
- element: Be
- thickness: 4g/cm²

S2 DEGRADER

TS3ED7...

- L (Ladder):
- D (Disk): 65
- VO (Wedge Oben): -218.2
- VU (Wedge Unten): -218.2
- Nb foil:
- SC21: 3.25 mm

S4 DEGRADER

HFSED3...

- O (Wedge Oben):
- U (Wedge Unten):

S0 SLITS

- ☐ beam stop out
- TS2DS3HL (left):
- TS2DS3HR (right):
- TS2DS3VO (top):
- TS2DS3VU (bottom):

S1 SLITS

- ☐ beam plug out
- TS3DS2HL (left): -20
- TS3DS2HR (right): 20

S2 SLITS

- ☐ beam plug out
- TS4DS1HL (left): -10
- TS4DS1HR (right): 10

S3 SLITS

- TS4DS3HL (left): -30
- TS4DS3HR (right): 10

S4 SLITS

- HFSDS3H (left): -20
- HFSDS3H (right): 20
- Pb Brick (top):
- Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

- TS3MU1: 0.63734
- TS3MU2: 0.58074
- TS4MU1: 0.4277
- HFSMU1: 0.4281

FRS-RATES

(counts/spill)

- 10 kHrtz : 53756
- 10 kHrtz veto dT : 45883
- SC21L: 57k
- SC21R: 520k
- SC41L: 182k
- SC41R: 185k

TA1

- Element : Au
- Thickness : 400mg/cm²
- Position: forward

PreSPEC-Trig/red.fact.

- ☐ Pulser(1) /........
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/......
- ☐ HEC Cal(4)/......
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.......
- ☐ p+Agata(7)/......
- ☒ p+HEC+Lyc(8)/...
- ☒ p+Agata+Lyc(9)...
- ☒ Part-SC41(10)/.....
- ☐ Spill-on(12)/.......
- ☐ Spill-off(13)/.......

FRS-TRIGGER

- ☐ SCI21
- ☐ SCI41
- ☐ Other:

PreSPEC-Rates

(Validated/Rejected)

- AGATA : 3.6k
- FRS : 147K
- Ta-ToF-LYCCA : 171k
- HECTOR :

LYCCA

Please check

- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2

- Last Filling : 12:00
- Status : OK

Exp No. S433 | Primary Beam: 58Ni | Date 2011012

MBS/file location: lxdaq02/oct16_12/data/52Fe...	File (first): File (last): 435	Start: Stop: 12:00 am
Narval/file location: gdadisks/data/12.10.16 jadres/acunet	File (first): File (last): 28 30	Start: Stop:

PURPOSE OF MEASUREMENT: (Centered Isotope) 52Fe ☐ Calibration run ☐ Production run

COMMENTS:

shift-in-charge: M. DONCEL

FRS/BEAMLINE elements
- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES
Check if gate valves were open throughout this file:
- ☐ open at START
- ☐ open at STOP

SPILL
- spill length: 5s
- period: 2s

Setting Fragment
52Fe

FRS setting No.
S433-05

PRIMARY BEAM
- Element: 58Ni
- SIS energy [MeV/u]: 600
- Intensity-SEETRAM: 6.5 . 10^7

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number: 36
- element: Be
- thickness: 4g/cm²

S2 DEGRADER
TS3ED7...
- L (Ladder):
- D (Disk): 65
- VO (Wedge Oben): -218'2
- VU (Wedge Unten): -218'2
- Nb foil:
- SC21: 3.25 mm

S4 DEGRADER
HFSED3...
- O (Wedge Oben):
- U (Wedge Unten):

S0 SLITS
- ☐ beam stop out
- TS2DS3HL (left):
- TS2DS3HR (right):
- TS2DS3VO (top):
- TS2DS3VU (bottom):

S1 SLITS
- ☐ beam plug out
- TS3DS2HL (left): -20
- TS3DS2HR (right): 20

S2 SLITS
- ☐ beam plug out
- TS4DS1HL (left): -10
- TS4DS1HR (right): 70

S3 SLITS
- TS4DS3HL (left): -30
- TS4DS3HR (right): 10

S4 SLITS
- HFSDS3H (left): -20
- HFSDS3H (right): 20
- Pb Brick (top):
- Pb Brick (bottom):

MAGNETS
Field values from Hall probes:
- TS3MU1: 0.63734
- TS3MU2: 0.58074
- TS4MU1: 0.4277
- HFSMU1: 0.4281

FRS-RATES
(counts/spill)
- 10 kHrtz: 61883
- 10 kHrtz veto dT: 54027
- SC21L: 148
- SC21R: 465
- SC41L: 181
- SC41R: 176

TA1
- Element: Au
- Thickness: 400 mg/cm²
- Position: forward

PreSPEC-Trig/red.fact.
- ☐ Pulser(1) /........
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/......
- ☐ HEC Cal(4)/......
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.......
- ☐ p+Agata(7)/......
- ☒ p+HEC+Lyc(8)/...
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/.....
- ☐ Spill-on(12)/.......
- ☐ Spill-off(13)/.......

FRS-TRIGGER
- ☐ SCI21
- ☐ SCI41
- ☐ Other:

PreSPEC-Rates
(Validated/Rejected)
- AGATA: 3.6K
- FRS: 154 K
- Ta-ToF-LYCCA: 178 K
- HECTOR:

LYCCA
Please check
- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2
- Last Filling: 12:00
- Status: ok

Exp No. S433 Primary Beam: ^{58}Ni Date 20/10/12

MBS/file location: rdata02/runs02/or29	File (first) / File (last): 427	Start / Stop: 10:30pm
Narval/file location: agata data/data/12 10 16_grading/	File (first): ~~29~~ 30 / File (last):	Start / Stop:

PURPOSE OF MEASUREMENT: (Centered Isotope) ^{52}Fe ☐ Calibration run ☑ Production run

COMMENTS:

shift-in-charge: T Henry

FRS/BEAMLINE elements
- ☑ SEETRAM
- ☐ SCI-01
- ☑ FRS-TA0
- ☐ S1-degrader
- ☑ S2-degrader
- ☑ S2-finger
- ☑ SCI-21
- ☑ TPC-21
- ☑ TPC-22
- ☑ TPC-41
- ☑ MUSIC-41
- ☑ MUSIC-42
- ☑ TPC-42
- ☑ SCI-41
- ☐ S4-degrader
- ☑ LYCCA-Start
- ☑ LYCCA-TaStart
- ☑ TA1
- ☑ TaDSSD

GATE VALVES
Check if gate valves were open throughout this file:
- ☐ open at START
- ☐ open at STOP

SPILL
- spill length: 55
- period: 25

Setting Fragment: ^{52}Fe

FRS setting No.: S433-05

PRIMARY BEAM
- Element: ^{58}Ni
- SIS energy [MeV/u]: 600
- Intensity-SEETRAM: 6.2×10^9

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number: 36
- element: Be
- thickness: 49/cm²

S2 DEGRADER
TS3ED7...
- L (Ladder): –
- D (Disk): 65
- VO (Wedge Oben): -218.2
- VU (Wedge Unten): -218.2
- Nb foil: 1
- SC21: 3.25mm

S4 DEGRADER
HFSED3...
- O (Wedge Oben):
- U (Wedge Unten):

S0 SLITS
☐ beam stop out
- TS2DS3HL (left):
- TS2DS3HR (right):
- TS2DS3VO (top):
- TS2DS3VU (bottom):

S1 SLITS
☐ beam plug out
- TS3DS2HL (left): -20
- TS3DS2HR (right): 20

S2 SLITS
☐ beam plug out
- TS4DS1HL (left): -10
- TS4DS1HR (right): 70

S3 SLITS
- TS4DS3HL (left): -30
- TS4DS3HR (right): 10

S4 SLITS
- HFSDS3H (left): -20
- HFSDS3H (right): 20
- Pb Brick (top):
- Pb Brick (bottom):

MAGNETS
Field values from Hall probes:
- TS3MU1: 0.63734
- TS3MU2: 0.58074
- TS4MU1: 0.4277
- HFSMU1: 0.4289

FRS-RATES
(counts/spill)
- 10 kHrtz: 51774
- 10 kHrtz veto dT: 44775
- SC21L: 3.1M
- SC21R: 2.5M
- SC41L: 182k
- SC41R: 169k

TA1
- Element: Au
- Thickness: 440mg/cm²
- Position: forward

PreSPEC-Trig/red.fact.
- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/.....
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☐ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/...
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/.....
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER
- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates
(Validated/Rejected)
- AGATA: 3.9k
- FRS: 149k
- Ta-ToF-LYCCA: 168k
- HECTOR:

LYCCA
Please check
- ☑ Run-sheet filled
- ☑ Run-sheet uploaded on elog

LN2
- Last Filling: 18:00
- Status: OK

Exp No. S433	Primary Beam: 58Ni	Date 20/10/17

MBS/file location	File (first) / File (last)	Start / Stop
d/risingo2/ar29-	File (first): — File (last): 419	Start: — Stop: 21:00
Narval/file location: agatadisks/data/121016_gadea/cu...	File (first): — File (last): 29 30	Start: — Stop: —

PURPOSE OF MEASUREMENT: (Centered Isotope) 52Fe

☐ Calibration run ☑ Production run

COMMENTS:

shift-in-charge: T Henry

FRS/BEAMLINE elements
- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES
Check if gate valves were open throughout this file:
- ☐ open at START
- ☐ open at STOP

SPILL
- spill length: 5s
- period: 2s

Setting Fragment
52Fe

FRS setting No.
S433_05

PRIMARY BEAM
- Element: 58Ni
- SIS energy [MeV/u]: 600
- Intensity-SEETRAM: 6.4x10

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number: 36
- element: Be
- thickness: 4g/cm²

S2 DEGRADER
TS3ED7...
- L (Ladder): –
- D (Disk): 65
- VO (Wedge Oben): -218.2
- VU (Wedge Unten): -218.2
- Nb foil: /
- SC21: 3.25mm

S4 DEGRADER
HFSED3...
- O (Wedge Oben):
- U (Wedge Unten):

S0 SLITS
- ☐ beam stop out
- TS2DS3HL (left):
- TS2DS3HR (right):
- TS2DS3VO (top):
- TS2DS3VU (bottom):

S1 SLITS
- ☐ beam plug out
- TS3DS2HL (left): -20
- TS3DS2HR (right): 20

S2 SLITS
- ☐ beam plug out
- TS4DS1HL (left): -10
- TS4DS1HR (right): 70

S3 SLITS
- TS4DS3HL (left): -30
- TS4DS3HR (right): 10

S4 SLITS
- HFSDS3H (left): -20
- HFSDS3H (right): 20
- Pb Brick (top):
- Pb Brick (bottom):

MAGNETS
Field values from Hall probes:
- TS3MU1: 0.63754
- TS3MU2: 0.58074
- TS4MU1: 0.4277
- HFSMU1: 0.4289

FRS-RATES
(counts/spill)
- 10 kHrtz : 55760
- 10 kHrtz veto dT : 47834
- SC21L: 3.1M
- SC21R: 2.5M
- SC41L: 188K
- SC41R: 184K

TA1
- Element : Au
- Thickness : 400mg/cm²
- Position: forward

PreSPEC-Trig/red.fact.
- ☐ Pulser(1) /........
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/......
- ☐ HEC Cal(4)/......
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.......
- ☐ p+Agata(7)/......
- ☒ p+HEC+Lyc(8)/...
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/.....
- ☐ Spill-on(12)/.......
- ☐ Spill-off(13)/.......

FRS-TRIGGER
- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates
(Validated/Rejected)
- AGATA : 3.6k
- FRS : 151k
- Ta-ToF-LYCCA : 170k
- HECTOR :

LYCCA
Please check
- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2
- Last Filling : 1800
- Status : ok

Exp No. | Primary Beam: 58Ni | Date 20/10/12

MBS/file location	File (first) Run 29/411 File (last)	Start 19.30 Stop
Narval/file location	File (first) File (last) Run 29 30	Start Stop

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ Calibration run ☐ Production run

52Fe Coulex

COMMENTS: shift-in-charge

Running — M. A. Bentley (mai)

FRS/BEAMLINE elements
- ☑ SEETRAM
- ☐ SCI-01
- ☑ FRS-TA0
- ☒ S1-degrader
- ☑ S2-degrader
- ☒ S2-finger
- ☑ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☑ TPC-42
- ☑ SCI-41
- ☑ S4-degrader
- ☒ LYCCA-Start
- ☑ LYCCA-TaStart
- ☒ TA1
- ☑ TaDSSD

GATE VALVES
Check if gate valves were open throughout this file:
- ☐ open at START
- ☐ open at STOP

SPILL
- spill length: 5s
- period: 2s

Setting Fragment: 52Fe

FRS setting No.: S433-05

PRIMARY BEAM
- Element: 58Ni
- SIS energy [MeV/u]: 600
- Intensity-SEETRAM: 6-3 x 10^9 pps

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number: 36
- element: ~~Ta~~ Be
- thickness: 4g/cm²

S2 DEGRADER
TS3ED7...
- L (Ladder): —
- D (Disk): 65
- VO (Wedge Oben): -218.2
- VU (Wedge Unten): -218.2
- Nb foil: —
- SC21: 3.25 mm

S4 DEGRADER
HFSED3...
- O (Wedge Oben):
- U (Wedge Unten):

S0 SLITS
☐ beam stop out
- TS2DS3HL (left):
- TS2DS3HR (right):
- TS2DS3VO (top):
- TS2DS3VU (bottom):

S1 SLITS
☐ beam plug out
- TS3DS2HL (left): -20
- TS3DS2HR (right): +20

S2 SLITS
☐ beam plug out
- TS4DS1HL (left): -10
- TS4DS1HR (right): +70

S3 SLITS
- TS4DS3HL (left): -30
- TS4DS3HR (right): +10

S4 SLITS
- HFSDS3H (left): -20
- HFSDS3H (right): +20
- Pb Brick (top):
- Pb Brick (bottom):

MAGNETS
Field values from Hall probes:
- TS3MU1: .63734
- TS3MU2: .58074
- TS4MU1: .4277
- HFSMU1: .4289

FRS-RATES
(counts/spill)
- 10 kHrtz: 61.9 k
- 10 kHrtz veto dT: 54.3 k
- SC21L: 3.1 M
- SC21R: 2.55 M
- SC41L: 181 k
- SC41R: 178

TA1
- Element: Au
- Thickness: 400 mg/cm²
- Position: Forward

PreSPEC-Trig/red.fact.
- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/.....
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☐ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/...
- ☒ p+Agata+Lyc(9)/...
- ☑ Part-SC41(10)/.....
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER
- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates
(Validated/Rejected)
- AGATA: 3.9 k
- FRS: 150 k
- Ta-ToF-LYCCA: 174 k
- HECTOR:

LYCCA
Please check
- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2
- Last Filling: 18:00
- Status: OK

Exp No. S433 **Primary Beam:** ^{58}Ni **Date** 20/10/12

MBS/file location	File (first) / File (last)	Start / Stop
d/nrmg02/ct16_12/data	File (first): File (last): 403	Start: Stop: ~~16:~~ 17:56

Narval/file location	File (first) / File (last)	Start / Stop
agatadisks/data/121016_gadea	File (first): File (last): ~~33~~ 29 30	Start: Stop:

PURPOSE OF MEASUREMENT: (Centered Isotope) ^{52}Fe

☐ Calibration run ☑ Production run

COMMENTS:

shift-in-charge: T. Henry

FRS/BEAMLINE elements

- ☑ SEETRAM
- ☐ SCI-01
- ☑ FRS-TA0
- ☑ S1-degrader
- ☑ S2-degrader
- ☑ S2-finger
- ☑ SCI-21
- ☑ TPC-21
- ☑ TPC-22
- ☑ TPC-41
- ☑ MUSIC-41
- ☑ MUSIC-42
- ☑ TPC-42
- ☑ SCI-41
- ☑ S4-degrader (un ticked →)
- ☑ LYCCA-Start
- ☑ LYCCA-TaStart
- ☑ TA1
- ☑ TaDSSD

GATE VALVES

Check if gate valves were open throughout this file:

- ☐ open at START
- ☐ open at STOP

SPILL

- spill length: ~~4s~~ 5s
- period: ~~5s~~ 2s

Setting Fragment: ^{52}Fe

FRS setting No.: S433_05

PRIMARY BEAM

- Element: ^{58}Ni
- SIS energy [MeV/u]: 600
- Intensity-SEETRAM: 5.75

PROD. TARGET

TS1ET5HS, TS1ET5VS:

- number: 36
- element: Be
- thickness: 4g/cm²

S2 DEGRADER

TS3ED7...

- L (Ladder): –
- D (Disk): 65
- VO (Wedge Oben): -218.2
- VU (Wedge Unten): -218.2
- Nb foil: –
- SC21: 3.25mm

S4 DEGRADER

HFSED3...

- O (Wedge Oben): –
- U (Wedge Unten): –

S0 SLITS

☐ beam stop out

- TS2DS3HL (left):
- TS2DS3HR (right):
- TS2DS3VO (top):
- TS2DS3VU (bottom):

S1 SLITS

☐ beam plug out

- TS3DS2HL (left): -20
- TS3DS2HR (right): 20

S2 SLITS

☐ beam plug out

- TS4DS1HL (left): -10
- TS4DS1HR (right): +70

S3 SLITS

- TS4DS3HL (left): -30
- TS4DS3HR (right): +10

S4 SLITS

- HFSDS3H (left): -20
- HFSDS3H (right): +20
- Pb Brick (top): –
- Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

- TS3MU1: 0.63734
- TS3MU2: 0.58074
- TS4MU1: 0.4277
- HFSMU1: ~~0.248~~ 0.4289

FRS-RATES

(counts/spill)

- 10 kHrtz: 59k
- 10 kHrtz veto dT: 51k
- SC21L: 5.1×10⁶
- SC21R: 2.5×10⁶
- SC41L: 190k
- SC41R: 182k

TA1

- Element: Au
- Thickness: ~~400mg~~ 1g/cm²
- Position: forward

PreSPEC-Trig/red.fact.

- ☐ Pulser(1) /........
- ☑ ~~LYCCA cal(2)/.....~~
- ☑ AgataCal(3)/......
- ☐ HEC Cal(4)/......
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.......
- ☐ p+Agata(7)/......
- ☑ p+HEC+Lyc(8)/...
- ☑ p+Agata+Lyc(9)/...
- ☑ Part-SC41(10)/.....
- ☐ Spill-on(12)/.......
- ☐ Spill-off(13)/.......

FRS-TRIGGER

- ☐ SCI21
- ☑ SCI41
- ☐ Other:

PreSPEC-Rates

(Validated/Rejected)

- AGATA: 5.3k
- FRS: 153k
- Ta-ToF-LYCCA: 176k
- HECTOR:

LYCCA

Please check

- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2

- Last Filling: 12:00
- Status: Ok

Exp No. S432 Primary Beam: ^{58}Ni Date 20/10/2012

MBS/file location /d/rising02/oct16_12/data	**File (first)** 28 **File (last)**	**Start** **Stop**
Narval/file location /lustre/hisks/data/12x016_gaden	**File (first)** ~~5 [illegible] 28391~~ **File (last)** 396	**Start** **Stop** 04:15

PURPOSE OF MEASUREMENT: (Centered Isotope) ^{52}Fe ☐ Calibration run ☐ Production run

COMMENTS:

shift-in-charge T. Henry

FRS/BEAMLINE elements
- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader (un ticked)
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES
Check if gate valves were open throughout this file:
- ☐ open at START
- ☐ open at STOP

SPILL
- spill length: 5s
- period: 25

Setting Fragment ^{52}Fe

FRS setting No. S432_05

PRIMARY BEAM
- Element: ^{58}Ni
- SIS energy [MeV/u]: 600
- Intensity-SEETRAM: 0.27x10^{9}

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number: 56
- element: Be
- thickness: 49/cm^2

S2 DEGRADER
TS3ED7...
- L (Ladder): –
- D (Disk): 65
- VO (Wedge Oben): -218.2
- VU (Wedge Unten): -218.2
- Nb foil: –
- SC21: 3.25mm

S4 DEGRADER
HFSED3...
- O (Wedge Oben): –
- U (Wedge Unten): –

S0 SLITS
☐ beam stop out
- TS2DS3HL (left):
- TS2DS3HR (right):
- TS2DS3VO (top):
- TS2DS3VU (bottom):

S1 SLITS
☐ beam plug out
- TS3DS2HL (left): -20
- TS3DS2HR (right): +20

S2 SLITS
☐ beam plug out
- TS4DS1HL (left): -18
- TS4DS1HR (right): +70

S3 SLITS
- TS4DS3HL (left): -30
- TS4DS3HR (right): +10

S4 SLITS
- HFSDS3H (left): -20
- HFSDS3H (right): +20
- Pb Brick (top): –
- Pb Brick (bottom):

MAGNETS
Field values from Hall probes:
- TS3MU1: 0.65754
- TS3MU2: 0.58074
- TS4MU1: 0.4277
- HFSMU1: 0.4289

FRS-RATES
(counts/spill)
- 10 kHrtz : 59591
- 10 kHrtz veto dT : 52107
- SC21L: 2.1x10^{6}
- SC21R: 2.4x10^{6}
- SC41L: 183k
- SC41R: 179k

TA1
- Element : Au
- Thickness : 460mg/cm^2
- Position: forward

PreSPEC-Trig/red.fact.
- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/.....
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☐ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/...
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/.....
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER
- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates
(Validated/Rejected)
- AGATA : 3.71k
- FRS : 152k
- Ta-ToF-LYCCA : 171k
- HECTOR :

LYCCA
Please check
- ☑ Run-sheet filled
- ☑ Run-sheet uploaded on elog

LN2
- Last Filling : 12:00
- Status : ok

Exp No. 5433 | Primary Beam: ^{58}Ni | Date 20/10/2012

MBS/file location
/d/rising02/oct16_12/data
File (first) —
File (last) 388
Start 2:30p.m
Stop 2:40p.m.

Narval/file location /agatadisks/data/121016_Gradea/
File (first) —
File (last) Run 28
Start 12:30a.m.
Stop Still running

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ Calibration run ☒ Production run
^{52}Fe

COMMENTS:
—

shift-in-charge
S. Milne

FRS/BEAMLINE elements
- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES
Check if gate valves were open throughout this file:
- ☐ open at START
- ☐ open at STOP

SPILL
spill length: 5s
period: 2s

Setting Fragment
^{52}Fe

FRS setting No.
5433-05

PRIMARY BEAM
Element: ^{58}Ni
SIS energy [MeV/u]: 600
Intensity-SEETRAM: 6.36×10^{9}

PROD. TARGET
TS1ET5HS, TS1ET5VS:
number: 36
element: Be
thickness: 4g/cm^2

S2 DEGRADER
TS3ED7...
L (Ladder): —
D (Disk): 65
VO (Wedge Oben): -218.2
VU (Wedge Unten): -218.2
Nb foil: —
SC21: 3.25mm

S4 DEGRADER
HFSED3...
O (Wedge Oben): —
U (Wedge Unten): —

S0 SLITS
☐ beam stop out
TS2DS3HL (left):
TS2DS3HR (right):
TS2DS3VO (top):
TS2DS3VU (bottom):

S1 SLITS
☐ beam plug out
TS3DS2HL (left): -20
TS3DS2HR (right): +20

S2 SLITS
☐ beam plug out
TS4DS1HL (left): -10
TS4DS1HR (right): +70

S3 SLITS
TS4DS3HL (left): -30
TS4DS3HR (right): +10

S4 SLITS
HFSDS3H (left): -20
HFSDS3H (right): +20
Pb Brick (top): —
Pb Brick (bottom): —

MAGNETS
Field values from Hall probes:
TS3MU1: 0.63734
TS3MU2: 0.58064
TS4MU1: 0.4277
HFSMU1: 0.4289

FRS-RATES
(counts/spill)
10 kHrtz : 53K
10 kHrtz veto dT : 45K
SC21L: 3.1M
SC21R: 2.5M
SC41L: 0.19M
SC41R: 0.18M

TA1
Element : Au
Thickness : 400mg/cm^2
Position: FORWARD

PreSPEC-Trig/red.fact.
- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/.....
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☒ p+HEC(6)/.....
- ☒ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/.....
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/.....
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER
- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates
(Validated/Rejected)
AGATA : 744/184
FRS : 150k
Ta-ToF-LYCCA : 0.17M
HECTOR : —

LYCCA
Please check
- ☒ Run-sheet filled
- ☒ Run-sheet uploaded on elog

LN2
Last Filling : 12:28
Status : OK

Exp No. S433 | Primary Beam: ^{58}Ni | Date 20/10/2012

MBS/file location /d/rising02/oct16_12/data	**File (first)** — **File (last)** 378	**Start** 12:30 p.m **Stop** 12:40 p.m
Narval/file location /agatadisks/data/121016_Gradea/	**File (first)** — **File (last)** Run 28	**Start** 12:30 a.m. **Stop** still running

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ Calibration run ☒ Production run

^{52}Fe

COMMENTS: —

shift-in-charge

S. Milne

FRS/BEAMLINE elements

- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES

Check if gate valves were open throughout this file:

- ☐ open at START
- ☐ open at STOP

SPILL

spill length: 5s

period: 2s

Setting Fragment

^{52}Fe

FRS setting No.

S433-05

PRIMARY BEAM

Element: ^{58}Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 6.24×10^9

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 49 mg/cm²

S2 DEGRADER

TS3ED7...

L (Ladder): —

D (Disk): 65

VO (Wedge Oben): -218.2

VU (Wedge Unten): -218.2

Nb foil: ~

SC21: 3.25mm

S4 DEGRADER

HFSED3...

O (Wedge Oben): —

U (Wedge Unten): —

S0 SLITS

☐ beam stop out

TS2DS3HL (left):

TS2DS3HR (right):

TS2DS3VO (top):

TS2DS3VU (bottom):

S1 SLITS

☐ beam plug out

TS3DS2HL (left): -20

TS3DS2HR (right): +20

S2 SLITS

☐ beam plug out

TS4DS1HL (left): -10

TS4DS1HR (right): +70

S3 SLITS

TS4DS3HL (left): -30

TS4DS3HR (right): +10

S4 SLITS

HFSDS3H (left): -20

HFSDS3H (right): +20

Pb Brick (top): —

Pb Brick (bottom): —

MAGNETS

Field values from Hall probes:

TS3MU1: 0.63724

TS3MU2: 0.58064

TS4MU1: 0.4276

HFSMU1: 0.4289

FRS-RATES

(counts/spill)

10 kHrtz: 50K

10 kHrtz veto dT: 43K

SC21L: 3.1M

SC21R: 2.5M

SC41L: 0.19M

SC41R: 0.18M

TA1

Element: Au

Thickness: 400 mg/cm²

Position: FORWARD

PreSPEC-Trig/red.fact.

- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/.....
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☐ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/.....
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/.....
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER

- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates

(Validated/Rejected)

AGATA: 754/156

FRS: 154K

Ta-ToF-LYCCA: 0.17M

HECTOR: —

LYCCA

Please check

- ☒ Run-sheet filled
- ☒ Run-sheet uploaded on elog

LN2

Last Filling: 12:28

Status: Ok

Exp No. 5433 | Primary Beam: ^{53}N | Date 20/10/2012

MBS/file location /d/rising02/oct16_12/data
File (first) —
File (last) 369
Start 10:30 a.m.
Stop 10:40 a.m.

Narval/file location /agatadisks/data/121016_Gadea/
File (first) —
File (last) Run 28
Start 12:30a.m.
Stop Still running

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ Calibration run ☒ Production run
^{52}Fe

COMMENTS: —

shift-in-charge
S.Milne

FRS/BEAMLINE elements
- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES
Check if gate valves were open throughout this file:
- ☐ open at START
- ☐ open at STOP

SPILL
spill length: 5s
period: 2s

Setting Fragment
^{52}Fe

FRS setting No.
S433-05

PRIMARY BEAM
Element: ^{53}N
SIS energy [MeV/u]: 600
Intensity-SEETRAM: 6.2×10^9

PROD. TARGET
TS1ET5HS, TS1ET5VS:
number: 36
element: Be
thickness: 4g/cm²

S2 DEGRADER
TS3ED7...
L (Ladder): —
D (Disk): 65
VO (Wedge Oben): -218.2
VU (Wedge Unten): -218.2
Nb foil: —
SC21: 3.25mm

S4 DEGRADER
HFSED3...
O (Wedge Oben): —
U (Wedge Unten): —

S0 SLITS
☐ beam stop out
TS2DS3HL (left):
TS2DS3HR (right):
TS2DS3VO (top):
TS2DS3VU (bottom):

S1 SLITS
☒ beam plug out
TS3DS2HL (left): -20
TS3DS2HR (right): +20

S2 SLITS
☐ beam plug out
TS4DS1HL (left): -10
TS4DS1HR (right): +70

S3 SLITS
TS4DS3HL (left): -30
TS4DS3HR (right): +10

S4 SLITS
HFSDS3H (left): -20
HFSDS3H (right): +20
Pb Brick (top): —
Pb Brick (bottom): —

MAGNETS
Field values from Hall probes:
TS3MU1: 0.6372
TS3MU2: 0.58054
TS4MU1: 0.4277
HFSMU1: 0.4289

FRS-RATES
(counts/spill)
10 kHrtz : 51 kHz
10 kHrtz veto dT : 44 kHz
SC21L: 3.1M
SC21R: 2.5M
SC41L: 0.19M
SC41R: 0.17M

TA1
Element : Au
Thickness : 400 mg/cm²
Position: FORWARD

PreSPEC-Trig/red.fact.
- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/.....
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☐ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/.....
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/.....
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER
- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates
(Validated/Rejected)
AGATA : 672/148
FRS : 149k
Ta-ToF-LYCCA : 0.17M
HECTOR : —

LYCCA
Please check
- ☒ Run-sheet filled
- ☒ Run-sheet uploaded on elog

LN2
Last Filling : 6:30
Status : OK

Exp No. S433 Primary Beam: ^{58}Ni Date 20/10/2012

MBS/file location /d/rising02/oct16_12/data	File (first) 356 / File (last)	Start 8:20 a.m / Stop 8:40 a.m
Narval/file location /agatadisks/data/121016_gadeanh_CurrentDirectory	File (first) / File (last) Run 28	Start 12:30 a.m / Stop Still running

PURPOSE OF MEASUREMENT: (Centered Isotope) ^{52}Fe ☐ Calibration run ☒ Production run

COMMENTS: —

shift-in-charge S. Milne

FRS/BEAMLINE elements
- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES
Check if gate valves were open throughout this file:
- ☐ open at START
- ☐ open at STOP

SPILL
- spill length: 5s
- period: 2s

Setting Fragment: ^{52}Fe

FRS setting No.: S433-05

PRIMARY BEAM
- Element: ^{58}Ni
- SIS energy [MeV/u]: 600
- Intensity-SEETRAM: 6.2×10^9

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number: 36
- element: Be
- thickness: 4g/cm²

S2 DEGRADER
TS3ED7...
- L (Ladder):
- D (Disk): 65
- VO (Wedge Oben): -218.2
- VU (Wedge Unten): -218.2
- Nb foil: —
- SC21: 3.25 mm

S4 DEGRADER
HFSED3...
- O (Wedge Oben): —
- U (Wedge Unten): —

S0 SLITS
- ☐ beam stop out
- TS2DS3HL (left):
- TS2DS3HR (right):
- TS2DS3VO (top):
- TS2DS3VU (bottom):

S1 SLITS
- ☒ beam plug out
- TS3DS2HL (left): -20
- TS3DS2HR (right): +20

S2 SLITS
- ☐ beam plug out
- TS4DS1HL (left): -10
- TS4DS1HR (right): +70

S3 SLITS
- TS4DS3HL (left): -30
- TS4DS3HR (right): +10

S4 SLITS
- HFDS3H (left): -20
- HFDS3H (right): +20
- Pb Brick (top): —
- Pb Brick (bottom): —

MAGNETS
Field values from Hall probes:
- TS3MU1: 0.6372
- TS3MU2: 0.58054
- TS4MU1: 0.4277
- HFSMU1: 0.4289

FRS-RATES
(counts/spill)
- 10 kHrtz : 33 KHz
- 10 kHrtz veto dT : 26 KHz
- SC21L: 3.0M
- SC21R: 2.4M
- SC41L: 0.19M
- SC41R: 0.18M

TA1
- Element : Au
- Thickness : 400mg/cm²
- Position: FORWARD

PreSPEC-Trig/red.fact.
- ☐ Pulser(1) /........
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/......
- ☐ HEC Cal(4)/......
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.......
- ☐ p+Agata(7)/......
- ☒ p+HEC+Lyc(8)/.....
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/.....
- ☐ Spill-on(12)/.......
- ☐ Spill-off(13)/.......

FRS-TRIGGER
- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates (Validated/Rejected)
- AGATA : 720/150
- FRS : 150K
- Ta-ToF-LYCCA : 0.17M
- HECTOR : —

LYCCA
Please check
- ☒ Run-sheet filled
- ☒ Run-sheet uploaded on elog

LN2
- Last Filling : 6:30
- Status : OK

Exp No. S433 Primary Beam: 58 Ni Date 20/10/2012

MBS/file location /d/nusrv02/oct16_12/data	**File (first)** 319 **File (last)**	**Start** 12:35 **Stop**
Narval/file location /agatadisks/data/121016-godes/zCurrentNarval	**File (first)** **File (last)**	**Start** **Stop**

PURPOSE OF MEASUREMENT: (Centered Isotope) 52 Fe ☐ Calibration run ☒ Production run

COMMENTS: **shift-in-charge** A. GOTTARDO !

FRS/BEAMLINE elements
- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES
Check if gate valves were open throughout this file:
- ☐ open at START
- ☐ open at STOP

SPILL
- spill length: 5s
- period:

Setting Fragment
52 Fe

FRS setting No.
S433-05

PRIMARY BEAM
- Element: 58Ni
- SIS energy [MeV/u]: 600
- Intensity-SEETRAM: $6 \cdot 10^9$

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number: 36
- element: Be
- thickness: 4 g/cm²

S2 DEGRADER
TS3ED7...
- L (Ladder):
- D (Disk): 65
- VO (Wedge Oben): -218.2
- VU (Wedge Unten): -218.2
- Nb foil:
- SC21: 3.25 mm

S4 DEGRADER
HFSED3...
- O (Wedge Oben):
- U (Wedge Unten):

S0 SLITS
☐ beam stop out
- TS2DS3HL (left):
- TS2DS3HR (right):
- TS2DS3VO (top):
- TS2DS3VU (bottom):

S1 SLITS
☒ beam plug out
- TS3DS2HL (left): -20
- TS3DS2HR (right): +20

S2 SLITS
☐ beam plug out
- TS4DS1HL (left): -10
- TS4DS1HR (right): +70

S3 SLITS
- TS4DS3HL (left): -30
- TS4DS3HR (right): +10

S4 SLITS
- HFSDS3H (left): -20
- HFSDS3H (right): +20
- Pb Brick (top):
- Pb Brick (bottom):

MAGNETS
Field values from Hall probes:
- TS3MU1: 0.6372
- TS3MU2: 0.58054
- TS4MU1: 0.4277
- HFSMU1: 0.4289

FRS-RATES
(counts/spill)
- 10 kHrtz : 50 kHz
- 10 kHrtz veto dT : 44 kHz
- SC21L: 3.4 M
- SC21R: 2.3 M
- SC41L: 1.8 M
- SC41R: 1.8 M

TA1
- Element : Au
- Thickness : 400 mg/cm²
- Position: FORWARD

PreSPEC-Trig/red.fact.
- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/.....
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☐ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/.....
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/.....
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER
- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates
(Validated/Rejected)
- AGATA : 694 / 184
- FRS :
- Ta-ToF-LYCCA : 171 kHz
- HECTOR :

LYCCA
Please check
- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2
- Last Filling : 00:30
- Status : OK

Exp No. S433 | Primary Beam: 58Ni | Date 2012-10-19

MBS/file location /d/rising021/oct16-12/data/	File (first) 0297	Start 19:38
	File (last)	Stop
Narval/file location /agatadisk5/data/121016_gadea/2current NarVal/	File (first)	Start 16:21
	File (last) Run 26	Stop

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ Calibration run ☑ Production run

52Fe

COMMENTS:

*) Values copied from previous run sheet

shift-in-charge

J. Nyberg

FRS/BEAMLINE elements

- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

*)

GATE VALVES

Check if gate valves were open throughout this file:

- ☐ open at START
- ☐ open at STOP

SPILL

spill length:

period:

Setting Fragment

FRS setting No.

PRIMARY BEAM

Element: 58Ni; 268

SIS energy [MeV/u]: 600.000

Intensity-SEETRAM: 4.37 E+09

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 3a *)

element: Be *)

thickness: 4 g/cm² *)

S2 DEGRADER

TS3ED7...

L (Ladder):

D (Disk): 650 *)

VO (Wedge Oben): -218.2 *)

VU (Wedge Unten): -218.2 *)

Nb foil: — *)

SC21: 3,25 mm *)

S4 DEGRADER

HFSED3...

O (Wedge Oben):

U (Wedge Unten):

S0 SLITS

☐ beam stop out

TS2DS3HL (left):

TS2DS3HR (right):

TS2DS3VO (top):

TS2DS3VU (bottom):

S1 SLITS

☐ beam plug out

TS3DS2HL (left): ~20 *)

TS3DS2HR (right): +20 *)

S2 SLITS

☐ beam plug out

TS4DS1HL (left): -10 *)

TS4DS1HR (right): +70 *)

S3 SLITS

TS4DS3HL (left): -30 *)

TS4DS3HR (right): +10 *)

S4 SLITS

HFSDS3H (left): -20 *)

HFSDS3H (right): +20 *)

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1: 0,63724

TS3MU2: 0,58044

TS4MU1: 0,4277

HFSMU1: 0,4289

FRS-RATES

(counts/spill)

10 kHrtz : 20k

10 kHrtz veto dT : 13k

SC21L: 1.9M ~~overflow~~

SC21R: 1.1M ~~overflow~~

SC41L: 136k

SC41R: 132k

TA1

Element : Au *)

Thickness : 400 mg/cm² *)

Position: forward *)

PreSPEC-Trig/red.fact.

- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/.....2.10
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☐ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/.....
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/.....2.10
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER

- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates

(Validated/Rejected)

AGATA : 150 / 5.0k

FRS : — 2

Ta-ToF-LYCCA : 120k

HECTOR :

LYCCA

Please check

- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2

Last Filling : 18:09 – 18.24

Status : OK

Exp No.	Primary Beam:	Date
MBS/file location: 21 oct 16_n2 / data /	File (first): 0280	Start: 16:21
	File (last): 0291	Stop: 18:36
Narval/file location: 2 / 12 10 16 / psbd / Current...	File (first): Run 26	Start: 16:24
	File (last):	Stop:

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ Calibration run ☐ Production run

52Fe Coulex

COMMENTS:

shift-in-charge

Pietri, Nyberg, Kaya, Saraswat

FRS/BEAMLINE elements

- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES

Check if gate valves were open throughout this file:

- ☐ open at START
- ☐ open at STOP

SPILL

spill length: 35

period: 5 s

Setting Fragment

52Fe

FRS setting No.

S433-05

PRIMARY BEAM

Element: 58Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 4x10^8

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 4 mg/cm²

S2 DEGRADER

TS3ED7...

L (Ladder):

D (Disk): 65 deg

VO (Wedge Oben): -216.2

VU (Wedge Unten): -218.2

Nb foil: —

SC21: 3.25 mm

S4 DEGRADER

HFSED3...

O (Wedge Oben):

U (Wedge Unten):

S0 SLITS

☐ beam stop out

TS2DS3HL (left):

TS2DS3HR (right):

TS2DS3VO (top):

TS2DS3VU (bottom):

S1 SLITS

☐ beam plug out

TS3DS2HL (left): -20

TS3DS2HR (right): 20

S2 SLITS

☐ beam plug out

TS4DS1HL (left): -10

TS4DS1HR (right): 10

S3 SLITS

TS4DS3HL (left): -30

TS4DS3HR (right): 10

S4 SLITS

HFSDS3H (left): -20

HFSDS3H (right): 20

Pb Brick (top): /

Pb Brick (bottom): /

MAGNETS

Field values from Hall probes:

TS3MU1: 0,63726

TS3MU2: 0,58044

TS4MU1: 0.4276

HFSMU1: 0.4269

FRS-RATES

(counts/spill)

10 kHrtz :

10 kHrtz veto dT :

SC21L: 2 MHz ~~2,40k~~ 1,9M

SC21R: 1,1M ~~1,30k~~

SC41L: 14.0k

SC41R: 13.0k

TA1

Element : Au

Thickness : 400 mg/cm²

Position: Forward

PreSPEC-Trig/red.fact.

- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/...1.0
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☐ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/.....
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/...1.0
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER

- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates

(Validated/Rejected)

AGATA : 1.50 / 4.800

FRS : 40k / 8k

Ta-ToF-LYCCA : 12.4

HECTOR :

LYCCA

Please check

- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2

Last Filling : 12:30

Status : ok

/d/rising02/oct16-12/data/

Exp No. | Primary Beam: | Date

MBS/file location ./oct16_12/data	File (first) 0279 File (last) 0279	Start 15:28 Stop
Narval/file location /lz1016_gadea/	File (first) Run24 File (last)	Start Stop

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ Calibration run ☒ Production run

^{52}Fe Coulex, Au at forward position

COMMENTS: **shift-in-charge**

file closed, Adjusting spill structure.

FRS/BEAMLINE elements
- ☒ SEETRAM
- ☐ SCI-01
- ☒ FRS-TA0
- ☒ S1-degrader
- ☒ S2-degrader
- ☒ S2-finger
- ☒ SCI-21
- ☒ TPC-21
- ☒ TPC-22
- ☒ TPC-41
- ☒ MUSIC-41
- ☒ MUSIC-42
- ☒ TPC-42
- ☒ SCI-41
- ☐ S4-degrader
- ☒ LYCCA-Start
- ☒ LYCCA-TaStart
- ☒ TA1
- ☒ TaDSSD

GATE VALVES
Check if gate valves were open throughout this file:
- ☐ open at START
- ☐ open at STOP

SPILL
- spill length: 3s
- period:

Setting Fragment: 52Fe

FRS setting No.: S433_05

PRIMARY BEAM
- Element: 58Ni
- SIS energy [MeV/u]: 680 MeV/u
- Intensity-SEETRAM: 8.74x10^8

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number: 36
- element: Be
- thickness: 4g/cm^2

S2 DEGRADER
TS3ED7...
- L (Ladder):
- D (Disk): 659rad
- VO (Wedge Oben): -218.2
- VU (Wedge Unten): -218.2
- Nb foil: —
- SC21: 3.25mm

S4 DEGRADER
HFSED3...
- O (Wedge Oben):
- U (Wedge Unten):

S0 SLITS
☐ beam stop out
- TS2DS3HL (left):
- TS2DS3HR (right):
- TS2DS3VO (top):
- TS2DS3VU (bottom):

S1 SLITS
☐ beam plug out
- TS3DS2HL (left): -20
- TS3DS2HR (right): 20

S2 SLITS
☐ beam plug out
- TS4DS1HL (left): -10
- TS4DS1HR (right): 70

S3 SLITS
- TS4DS3HL (left): -30
- TS4DS3HR (right): 10

S4 SLITS
- HFSDS3H (left): -20
- HFSDS3H (right): 20
- Pb Brick (top):
- Pb Brick (bottom):

MAGNETS
Field values from Hall probes:
- TS3MU1: 0.637724
- TS3MU2: 0.58044
- TS4MU1: 0.4277
- HFSMU1: 0.4289

FRS-RATES
(counts/spill)
- 10 kHrtz : 25k
- 10 kHrtz veto dT : 24k
- SC21L: 187k
- SC21R: 140k
- SC41L: 2.2k
- SC41R: 19k

TA1
- Element : Au
- Thickness : 400mg/cm^2
- Position: Forward

PreSPEC-Trig/red.fact.
- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/....10
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☐ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/.....
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/...10
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER
- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates
(Validated/Rejected)
- AGATA :
- FRS :
- Ta-ToF-LYCCA : 19k
- HECTOR :

LYCCA
Please check
- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2
- Last Filling : 12
- Status : ok

Exp No. S433 Primary Beam: 58Ni Date 19th oct.

MBS/file location: ./oct16_12/data.	File (first) 0273 File (last) 52fe_dec_ar23	Start 13:30 Stop 14:35
Narval/file location: ./12/2016_galea/	File (first) 23 File (last) 0278.Lmd	Start Stop

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ Calibration run ☒ Production run

52Fe coulex Au at forward position

COMMENTS: shift-in-charge Namita, Caleri, S. Leoni, Vidika

FRS/BEAMLINE elements

- ☑ SEETRAM
- ☐ SCI-01
- ☑ FRS-TA0
- ☑ S1-degrader
- ☑ S2-degrader
- ☑ S2-finger
- ☑ SCI-21
- ☑ TPC-21
- ☑ TPC-22
- ☑ TPC-41
- ☑ MUSIC-41
- ☑ MUSIC-42
- ☑ TPC-42
- ☑ SCI-41
- ☐ S4-degrader
- ☑ LYCCA-Start
- ☑ LYCCA-TaStart
- ☑ TA1
- ☑ TaDSSD

GATE VALVES

Check if gate valves were open throughout this file:

- ☐ open at START
- ☐ open at STOP

SPILL

spill length: 3 s

period:

Setting Fragment

52Fe

FRS setting No.

S433.05

PRIMARY BEAM

Element: 58Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 4.64×10^9

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 4 g/cm²

S2 DEGRADER

TS3ED7...

L (Ladder):

D (Disk): 65 grad

VO (Wedge Oben): -218.2

VU (Wedge Unten): -218.2

Nb foil: X

SC21:

S4 DEGRADER

HFSED3...

O (Wedge Oben):

U (Wedge Unten):

S0 SLITS

☐ beam stop out

TS2DS3HL (left): 0.63724

TS2DS3HR (right): 0.58044

TS2DS3VO (top): 0.4276

TS2DS3VU (bottom): 0.4289

S1 SLITS

☐ beam plug out

TS3DS2HL (left): -20

TS3DS2HR (right): 20

S2 SLITS

☐ beam plug out

TS4DS1HL (left): -10

TS4DS1HR (right): 70

S3 SLITS

TS4DS3HL (left): -30

TS4DS3HR (right): 10

S4 SLITS

HFSDS3H (left): -20

HFSDS3H (right): 20

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1:

TS3MU2:

TS4MU1:

HFSMU1:

FRS-RATES

(counts/spill)

10 kHrtz : 28R

10 kHrtz veto dT : 21R

SC21L: 144R

SC21R: 191 R

SC41L: 136 R

SC41R: 125R

TA1

Element : Au

Thickness : 400 mg/cm²

Position: forward

PreSPEC-Trig/red.fact.

- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/.....1 0
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☐ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/.....
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/...1 0
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER

- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates

(Validated/Rejected)

AGATA :

FRS :

Ta-ToF-LYCCA : 128 R

HECTOR :

LYCCA

Please check

- ☒ Run-sheet filled
- ☒ Run-sheet uploaded on elog

LN2

Last Filling : 12 pm

Status : OK