Exp No. S433 Primary Beam: 58Ni Date 17.10.2012

MBS/file location ~/data02/oct16_12/data	**File (first)** **File (last)** 527e_dec_a15_0133	**Start** **Stop** 22:30
Narval/file location	**File (first)** **File (last)** run #15	**Start** **Stop**

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

527e 12+ Coulex

COMMENTS:

MBS crashed, had to restart

shift-in-charge

AJ, AG, JV, CS

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: 5s

Setting Fragment

527e

FRS setting No.

S433_05

PRIMARY BEAM

Element: 58Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 3,5x10^9

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 4g/cm²

S2 DEGRADER

TS3ED7... 4g/cm²

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

Nb foil:

SC21:

S4 DEGRADER

HFSED3... none

O (Wedge Oben):

U (Wedge Unten):

S0 SLITS open

☐ 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): 020

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1: 0,63705

TS3MU2: 0,58024

TS4MU1: 0,4276

HFSMU1: 0,4289

FRS-RATES

(counts/spill)

10 kHrtz : 21.7k

10 kHrtz veto dT : 15.2k

SC21L: 1.7k

SC21R: 1,5k

SC41L: 107k

SC41R: 104k

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)/.....0
- ☒ Part-SC41(10)/.....10
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER

- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates (Validated/Rejected) free/tot

AGATA : 123 1062/54

FRS : 86k/74k

Ta-ToF-LYCCA : 99k

HECTOR :

LYCCA

Please check

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

LN2

Last Filling : 18:26

Status : ok

Exp No. S433 Primary Beam: 58Ni Date 17.10.2012

MBS/file location oct06_12 / data	**File (first)** 527e_dec_ar15 **File (last)** _ar21	**Start** 19:53 **Stop**
Narval/file location	**File (first)** run #15 **File (last)**	**Start** **Stop**

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

527e 12t conf

COMMENTS:

shift-in-charge

AT, AG, JV, CS

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: 5s

Setting Fragment

527e

FRS setting No.

S433_05

PRIMARY BEAM

Element: 58Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 3,4×10^9

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 4g/cm²

S2 DEGRADER

TS3ED7... 4g

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

Nb foil:

SC21:

S4 DEGRADER

HFSED3... none

O (Wedge Oben):

U (Wedge Unten):

S0 SLITS open

☐ 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: 0,63695

TS3MU2: 0,58014

TS4MU1: 0,4277

HFSMU1: 0,4289

FRS-RATES

(counts/spill)

10 kHrtz: 20k

10 kHrtz veto dT: 14k

SC21L: ~~78k~~ 1,7M

SC21R: ~~88k~~ 1,4M

SC41L: 108k

SC41R: 105k

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)/0...
- ☑ Part-SC41(10)/....10
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER

- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates

~~(Validated/Rejected)~~ 1962/1911

AGATA: 12h 1966/65

FRS: 874/744

Ta-ToF-LYCCA: 904

HECTOR:

LYCCA

Please check

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

LN2

Last Filling: 18:76

Status: o.k.

Exp No. S433 Primary Beam: 58Ni Date 19.10.2011

MBS/file location /data2/oct16_12/data	**File (first)** 527e_doc_run5 **File (last)** _0117	**Start** 18:52 **Stop**
Narval/file location	**File (first)** **File (last)** run 15	**Start** **Stop**

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

527e 12° could

COMMENTS: **shift-in-charge** AT, AG, ZK, CS

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: 5s

Setting Fragment

527e

FRS setting No.

5433_05

PRIMARY BEAM

Element: 58Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 3,5×10^9

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 4 g/cm²

S2 DEGRADER

TS3ED7... 45

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

Nb foil:

SC21:

S4 DEGRADER

HFSED3... none

O (Wedge Oben):

U (Wedge Unten):

S0 SLITS none

☐ 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): +20

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: 0,63695

TS3MU2: 0,58014

TS4MU1: 0,4277

HFSMU1: 0,4289

FRS-RATES

(counts/spill)

10 kHrtz : 27k

10 kHrtz veto dT : 20k

SC21L: 1,8M

SC21R: 1,4M

SC41L: 108k

SC41R: 104k

TA1

Element : Al

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)/.....2
- ☒ p+Agata+Lyc(9)/.....2
- ☒ Part-SC41(10)/.....10
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER

- ☐ SCI21
- ☑ SCI41
- ☐ Other:

PreSPEC-Rates (Validated/Rejected)

AGATA :

FRS : 87k / 74k

Ta-ToF-LYCCA : 97k

HECTOR :

LYCCA

Please check

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

LN2

Last Filling : 18:26

Status : o.k.

Exp No.	Primary Beam:	Date 17/10/12
MBS/file location r1da02/oct12_12/data	**File (first)** ~~Start.lmf~~ 52Fe_doc_ar15_0012 **File (last)**	**Start** 17:44 **Stop**
Narval/file location	**File (first)** run 15 **File (last)**	**Start** 17:44 **Stop**

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

COULEX 12+ 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: 3 D

period: 5 3

Setting Fragment

52Fe

FRS setting No.

S433_05

PRIMARY BEAM

Element: 58Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 3.4×10⁹

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 4g/cm²

S2 DEGRADER

TS3ED7... 4g

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

Nb foil:

SC21:

S4 DEGRADER

HFSED3... none

O (Wedge Oben):

U (Wedge Unten):

S0 SLITS none

☐ 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: 0.63695

TS3MU2: 0.58014

TS4MU1: 0.4276

HFSMU1: 0.4289

FRS-RATES

(counts/spill)

10 kHrtz : 20k

10 kHrtz veto dT : 14k

SC21L: 1.8M

SC21R: 1.5M

SC41L: 105k

SC41R: 101k

TA1

Element : Al

Thickness : 400mg/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)/...0
- ☒ Part-SC41(10)/.....10
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER

- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates

(~~Validated~~/Rejected)

AGATA : 123 1776/65

FRS : 8,6k / 7,3k

Ta-ToF-LYCCA : 98k

HECTOR :

LYCCA

Please check

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

LN2

Last Filling : 12:27

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: 17.10.2012 **Time:** 17:56 hrs

Data file : /rida02/oct16_12/data/52Fe_dec_ar15_0112

Leakage currents and bias DSSSD and CsI detectors:

BIAS CsI Wall: - 34.8 V

BIAS DSSSD Wall: -49.8 V

BIAS DSSSD Target: -49.8 V

HV 0/1: -544 nA	**HV 1/1:** -3670 nA	**HV 2/1:** -383 nA	**HV 3/1:** -2180 nA
HV 0/2: -3020 nA	**HV 1/2:** -2530 nA	**HV 2/2:** -1733 nA	**HV 3/2:** -773 nA
HV 0/3: -2890 nA	**HV 1/3:** -2220 nA	**HV 2/3:** -1386 nA	
HV 0/4: -4210 nA	**HV 1/4:** -367 nA	**HV 2/4:** -1866 nA	**HV 3/4:** -3840 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): **1.0 V (5µs)** **or** ☐ **connected to CFD (no monitor)**

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

ToF Stop (LYC7): **0.5 V (50ns)** **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	**File (first)** - 101 **File (last)** - 111	**Start** 15:00 **Stop** 17:30
Narval/file location	**File (first)** run 19 **File (last)**	**Start** **Stop**

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

DGDTA was not closed. Something changed & and we opend a new rig

COMMENTS: no beam - decay measurement **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:
- period:

Setting Fragment

FRS setting No.

PRIMARY BEAM
- Element:
- SIS energy [MeV/u]:
- Intensity-SEETRAM

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number:
- element:
- thickness:

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

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):
- TS3DS2HR (right):

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

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

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

MAGNETS
Field values from Hall probes:
- TS3MU1:
- TS3MU2:
- TS4MU1:
- HFSMU1:

FRS-RATES
(counts/spill)
- 10 kHrtz :
- 10 kHrtz veto dT :
- SC21L:
- SC21R:
- SC41L:
- SC41R:

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 : 1718 // 182
- FRS :
- Ta-ToF-LYCCA :
- HECTOR :

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

LN2
- Last Filling :
- Status :

Exp No. | Primary Beam: | Date 17.10.17

MBS/file location	File (first) - 0073 File (last)	Start 13:00 Stop 14:58
Narval/file location	File (first) run 14 File (last)	Start Stop Not get closed

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

~~Decay measurement~~ Implanting in stopper

COMMENTS: shift-in-charge

All the same as before.

*the file for mbs was closed but not DGOTO

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

52 Fe

FRS setting No.

S433_05

PRIMARY BEAM

Element: 58Ni

SIS energy [MeV/u]: 680

Intensity-SEETRAM

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 38

element: Be

thickness: 4 g/cm²

S2 DEGRADER

TS3ED7... 4g

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

Nb foil:

SC21:

S4 DEGRADER

HFSED3... 1g

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: .63885

TS3MU2: .58014

TS4MU1: .4275

HFSMU1: .4289

FRS-RATES

(counts/spill)

10 kHrtz :

10 kHrtz veto dT :

SC21L: 1720 1c

SC21R: 1990 1c

SC41L: 103 K

SC41R: 99 K

TA1

Element : Stopper

Thickness : 10mm

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 : 429/1600.

FRS :

Ta-ToF-LYCCA : 90 K

HECTOR : 16K

LYCCA

Please check

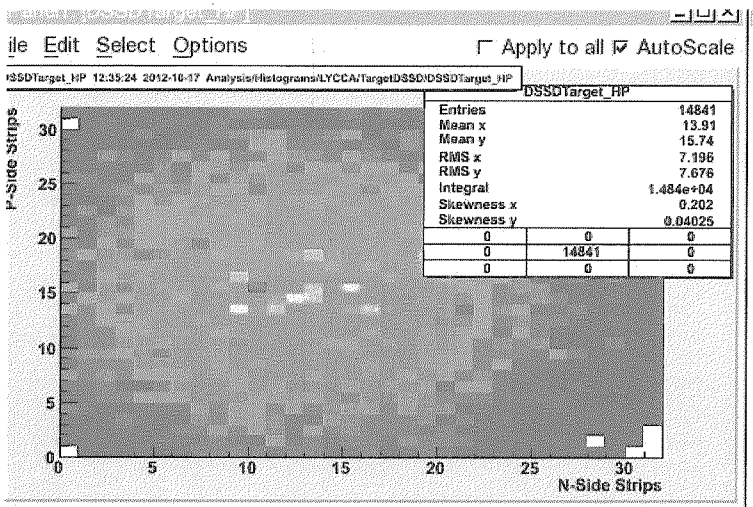
- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

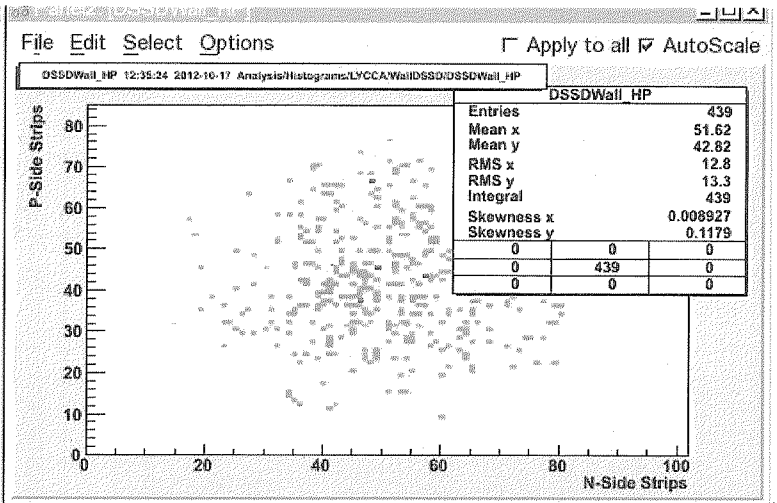
LN2

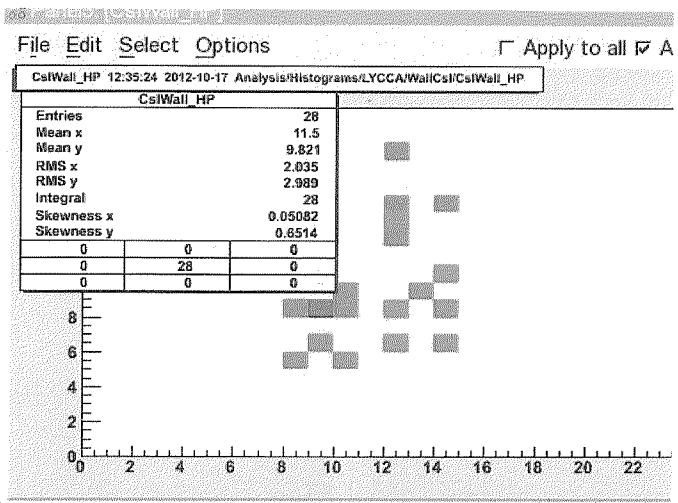
Last Filling : 12:00

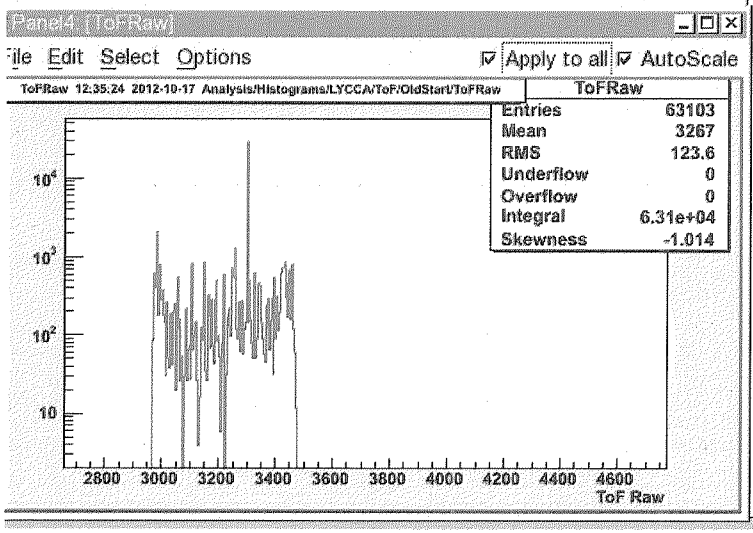
Status : OK

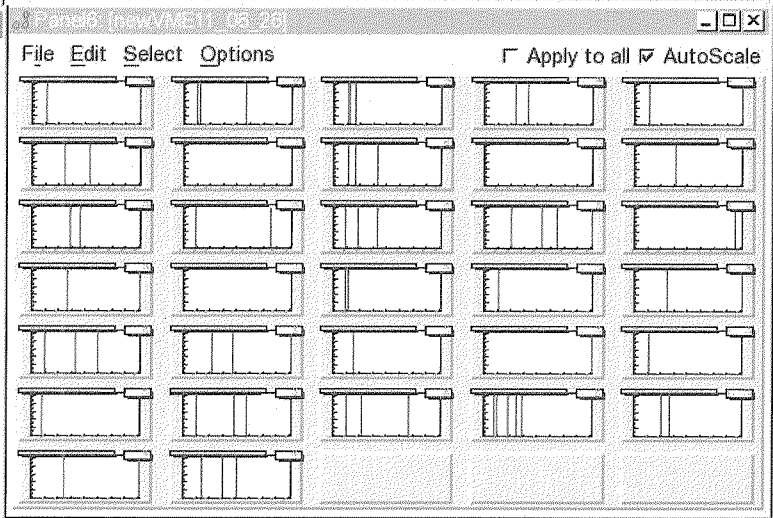
Oct 17 12:38











we are implanting

Exp No.	Primary Beam:	Date
MBS/file location	**File (first)** -0068 **File (last)** -0072	**Start** 12:28 **Stop** 12:57
Narval/file location	**File (first)** run 13 **File (last)**	**Start** **Stop**

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

Decay.

COMMENTS: Δ in degrader in S4 is on

shift-in-charge M.Lorta, T. Habermann

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:

SIS energy [MeV/u]:

Intensity-SEETRAM:

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number:

element:

thickness:

S2 DEGRADER

TS3ED7...

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

Nb foil:

SC21:

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):

TS3DS2HR (right):

S2 SLITS

☐ beam plug out

TS4DS1HL (left):

TS4DS1HR (right):

S3 SLITS

TS4DS3HL (left):

TS4DS3HR (right):

S4 SLITS

HFSDS3H (left):

HFSDS3H (right):

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1:

TS3MU2:

TS4MU1:

HFSMU1:

FRS-RATES

(counts/spill)

10 kHrtz :

10 kHrtz veto dT :

SC21L: 1720 K

SC21R: 1990 K

SC41L: 109 K

SC41R: 100 K

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 : 948 / 156

FRS :

Ta-ToF-LYCCA : 39 K

HECTOR :

LYCCA

Please check

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

LN2

Last Filling :

Status :

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: 17.10.2012 **Time: 12:10** hrs

Data file : /rida02/oct16_12/data/52Fe_dec_ar11_0065

Leakage currents and bias DSSSD and CsI detectors:

BIAS CsI Wall: - 34.8 V

BIAS DSSSD Wall: -49.8 V

BIAS DSSSD Target: -49.9 V

HV 0/1: -526 nA **HV 1/1:** -3600 nA **HV 2/1:** -307 nA **HV 3/1:** -2170 nA

HV 0/2: -2910 nA **HV 1/2:** -2410 nA **HV 2/2:** -1678 nA **HV 3/2:** -762 nA

HV 0/3: -2710 nA **HV 1/3:** -2140 nA **HV 2/3:** -1357 nA

HV 0/4: -4160 nA **HV 1/4:** -352 nA **HV 2/4:** -1848 nA **HV 3/4:** -3170 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): **1.0 V (5µs)** or ☑ **connected to CFD (no monitor)**

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

ToF Stop (LYC7): **0.5 V (100ns)** 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: 58Ni | Date 19/10/2012

MBS/file location: lxdaq01/at16.10/data/	File (first): 52Fe_cau_ar11_006 File (last):	Start 14:56 Stop
Narval/file location	File (first): File (last): ar12	Start 12:23. Stop

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

Decay

COMMENTS: **shift-in-charge** TH IC AG

→ we were not stopping the beam in the stopper. We will put S4 degrader.

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: 7s

Setting Fragment
52Fe

FRS setting No.
S433_005

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

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

S2 DEGRADER
TS3ED7... 4g
- L (Ladder):
- D (Disk):
- VO (Wedge Oben):
- VU (Wedge Unten):
- Nb foil:
- SC21:

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: .63685
- TS3MU2: .58014
- TS4MU1: .4277
- HFSMU1: .4289

FRS-RATES
(counts/spill)
- 10 kHrtz :
- 10 kHrtz veto dT :
- SC21L: 1739k
- SC21R: 1435k
- SC41L: 104k
- SC41R: 104k

TA1
- Element : Stopper
- Thickness :
- Position: horizontal 3

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)/1
- ☒ p+HEC+Lyc(8)/1^10
- ☒ p+Agata+Lyc(9)/2^10
- ☐ Part-SC41(10)/.....
- ☐ Spill-on(12)/.......
- ☐ Spill-off(13)/.......

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

PreSPEC-Rates
(Validated/Rejected)
- AGATA : 842/192
- FRS :
- Ta-ToF-LYCCA : 92k
- HECTOR : 13k

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

LN2
- Last Filling :
- Status :

Exp No. S433 Primary Beam: ^{58}Ni Date 17/10/2017

MBS/file location rda02/at%_12 /data/52Fe_coun%_Ar9

File (first)
File (last) 0046

Start
Stop 06:57

Narval/file location

File (first) ~~0009~~ 0010
File (last)

Start 10:31
Stop

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

* the fifo had the wrong agata run so I closed it and open a new one ...

COMMENTS: Start of new Narval file
Start of new Narval file

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: 2s/4s

period:

Setting Fragment

^{52}Fe

FRS setting No.

S433_05

PRIMARY BEAM

Element: ^{58}Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 3.5×10^9

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: ~~4~~ 4 mg/cm^2

S2 DEGRADER

TS3ED7... 69

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

Nb foil:

SC21:

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: 0.63685

TS3MU2: 0.59004

TS4MU1: 0.4276

HFSMU1: 0.4289

FRS-RATES

(counts/spill)

10 kHrtz : 416k

10 kHrtz veto dT : 352k

SC21L: 1.6×10^6

SC21R: 1.5×10^6

SC41L: 93k

SC41R: 92k

TA1

Element : Au

Thickness : 400mg/cm^2

Position: Center

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)/...3
- ☐ Part-SC41(10)/.....
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER

- ☐ SCI21
- ☐ SCI41
- ☐ Other:

PreSPEC-Rates

(Validated/Rejected)

AGATA : 1.9k

FRS : 71k

Ta-ToF-LYCCA : 78k

HECTOR :

LYCCA

Please check

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

LN2

Last Filling : 06:00

Status :

Exp No. S433 Primary Beam: ^{58}Ni Date 17/10/12

MBS/file location /data2/oct16_12/data/ 152Fe_Cou_Ar9 | File (first) | File (last) 0040 | Start | Stop 05:23

Narval/file location | File (first) | File (last) 0009 | Start | Stop

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ 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: 2s/4s
period:

Setting Fragment
^{52}Fe

FRS setting No.
S433_05

PRIMARY BEAM
Element: ^{58}Ni
SIS energy [MeV/u]: 600
Intensity-SEETRAM: 3.5×10^{9}

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

S2 DEGRADER
TS3ED7... 4g
L (Ladder):
D (Disk):
VO (Wedge Oben):
VU (Wedge Unten):
Nb foil:
SC21:

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: 0.63685
TS3MU2: 0.58004
TS4MU1: 0.4276
HFSMU1: 0.4289

FRS-RATES
(counts/spill)
10 kHrtz : 37.1k
10 kHrtz veto dT : 3.14k
SC21L: 1.6×10^{6}
SC21R: 1.5×10^{6}
SC41L: 95k
SC41R: 88k

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

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)/..2^9
- ☐ Part-SC41(10)/.....
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

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

PreSPEC-Rates
(Validated/Rejected)
AGATA : 1.8k
FRS : 76k
Ta-ToF-LYCCA : 86k
HECTOR :

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

LN2
Last Filling : 00:00
Status :

Exp No. S433 | Primary Beam: ^{58}Ni | Date 17/10/2012

MBS/file location r:\data2\a416_12\lmd\ 52Fe_Cou_or9\	File (first) 0033	Start 03:40
	File (last)	Stop
Narval/file location	File (first) 0009	Start
	File (last)	Stop

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ 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: 25/45
- period:

Setting Fragment
^{52}Fe

FRS setting No.
S433_05

PRIMARY BEAM
- Element: ^{58}Ni
- SIS energy [MeV/u]: 600
- Intensity-SEETRAM: 3.3×10^{9}

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

S2 DEGRADER
TS3ED7... 4g
- L (Ladder):
- D (Disk):
- VO (Wedge Oben):
- VU (Wedge Unten):
- Nb foil:
- SC21:

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: 0.63685
- TS3MU2: 0.58004
- TS4MU1: 0.4276
- HFSMU1: 0.4289

FRS-RATES
(counts/spill)
- 10 kHrtz : 263k
- 10 kHrtz veto dT : 220k
- SC21L: 1.6×10^{6}
- SC21R: 1.5×10^{6}
- SC41L: 93k
- SC41R: 90k

TA1
- Element : Au
- Thickness : 600mg/cm^2
- Position: Center

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

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

PreSPEC-Rates
(Validated/Rejected)
- AGATA : 1.7k
- FRS : 77k
- Ta-ToF-LYCCA : 87k
- HECTOR :

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

LN2
- Last Filling : 00:00
- Status :

Exp No. S433 Primary Beam: ^{58}Ni Date 17/10/2012

MBS/file location r1202/oct16_127 data/S2Fe_Cou_e9	File (first) 0027	Start 02:15
	File (last)	Stop
Narval/file location 9	File (first)	Start
	File (last)	Stop

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ 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: 2s/4s
- period:

Setting Fragment
^{52}Fe

FRS setting No.
S433_05

PRIMARY BEAM
- Element: ^{58}Ni
- SIS energy [MeV/u]: 600
- Intensity-SEETRAM: 3.3×10^9

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

S2 DEGRADER
TS3ED7... 40
- L (Ladder):
- D (Disk):
- VO (Wedge Oben):
- VU (Wedge Unten):
- Nb foil:
- SC21:

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): -26
- 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: 0.63685
- TS3MU2: 0.58004
- TS4MU1: 0.4276
- HFSMU1: 0.4289

FRS-RATES
(counts/spill)
- 10 kHrtz : 203k
- 10 kHrtz veto dT : 172k
- SC21L: 1.6×10^6
- SC21R: 92k
- SC41L: 93k
- SC41R: 1.5×10^{62}

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

PreSPEC-Trig/red.fact.
- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/....
- ☒ AgataCal(3)/.. 210
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☒ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/.... 200
- ☒ p+Agata+Lyc(9)/.. 200
- ☐ Part-SC41(10)/.....
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

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

PreSPEC-Rates
(Validated/Rejected)
- AGATA : 1.7k
- FRS : 77k
- Ta-ToF-LYCCA : 89k
- HECTOR :

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

LN2
- Last Filling : 00:00
- Status :

Exp No. S433 Primary Beam: ^{58}Ni Date 17/10/2012

MBS/file location r:daq2/oct16_12 /data/s2fe_cou_or9_0020.lmd	File (first)	Start
	File (last) 0020	Stop 00:48
Narval/file location 9	File (first)	Start
	File (last)	Stop

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ 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: 2s/4s

period:

Setting Fragment

^{52}Fe

FRS setting No.

S433_05

PRIMARY BEAM

Element: ^{58}Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 3.3×10^9

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 4g/cm²

S2 DEGRADER

TS3ED7... 4g

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

Nb foil:

SC21:

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: 0.63685

TS3MU2: 0.58004

TS4MU1: 0.4276

HFSMU1: 0.4289

FRS-RATES

(counts/spill)

10 kHrtz : 163295

10 kHrtz veto dT : 138061

SC21L: ~~1.6x10⁶~~

SC21R: 90k

SC41L: 95k

SC41R: 85k

TA1

Element : Au

Thickness : 400mg/cm²

Position: Center

PreSPEC-Trig/red.fact.

- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/...2¹⁰
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☒ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/.....
- ☒ p+Agata+Lyc(9)/2¹⁰
- ☐ Part-SC41(10)/.....
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER

- ☐ SCI21
- ☒ SCI41
- ☐ Other:

PreSPEC-Rates

(Validated/Rejected)

AGATA : 1.7k

FRS : 76k

Ta-ToF-LYCCA : 80k

HECTOR :

LYCCA

Please check

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

LN2

Last Filling : 00:00

Status :

Exp No. S433 Primary Beam: ^{58}Ni Date 16/10/2012

MBS/file location	File (first) / File (last)	Start / Stop
ridaa02/oct16-12/data/S2Fe_Cou_009	0014	23:09
Narval/file location	**File (first) / File (last)**	**Start / Stop**
	0009	

PURPOSE OF MEASUREMENT: (Centered Isotope) ☐ 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: 25/45

period:

Setting Fragment

52 Fe

FRS setting No.

S433_05

PRIMARY BEAM

Element: ^{58}Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 3.3×10^9

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 49 mg/cm^2

S2 DEGRADER

TS3ED7... 40

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

Nb foil:

SC21:

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): ~~-35~~ -20

TS3DS2HR (right): ~~35~~ 20

S2 SLITS

☐ beam plug out

TS4DS1HL (left): -10

TS4DS1HR (right): 70

S3 SLITS

TS4DS3HL (left): -30

TS4DS3HR (right): 16

S4 SLITS

HFSDS3H (left): -20

HFSDS3H (right): 20

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1: 0.63685

TS3MU2: 0.58006

TS4MU1: 0.4276

HFSMU1: 0.4289

FRS-RATES

(counts/spill)

10 kHrtz : 76495

10 kHrtz veto dT : 63722

SC21L: 638490

SC21R: 91890

SC41L: 95236

SC41R: 92297

TA1

Element : Au

Thickness : 40 mg/cm2

Position: Center

PreSPEC-Trig/red.fact.

- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/...2.1
- ☐ 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 : 1.7k

FRS : 76496

Ta-ToF-LYCCA : 86875

HECTOR :

LYCCA

Please check

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

LN2

Last Filling : ~~18:00~~ 4pm

Status :

Exp No. S433 Primary Beam: 58Ni Date 16.10.2012

MBS/file location /d/nsingo2/oct16_12/data	**File (first)** 52Fe_cou_air9_0011 **File (last)**	**Start** 21:43 **Stop**
Narval/file location	**File (first)** **File (last)**	**Start** **Stop**

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

coulex in 52Fe production

COMMENTS: started with 2 second long spills **shift-in-charge**

21:47 changed to 4s spills optimized slits

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: 2s / 4s

period:

Setting Fragment

52Fe

FRS setting No.

S433_05

PRIMARY BEAM

Element: 58Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: $3.3 \cdot 10^9$

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 4 g/cm²

S2 DEGRADER

TS3ED7... 4g

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

Nb foil:

SC21:

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):

TS3DS2HR (right):

S2 SLITS

☐ beam plug out

TS4DS1HL (left):

TS4DS1HR (right):

S3 SLITS

TS4DS3HL (left):

TS4DS3HR (right):

S4 SLITS

HFSDS3H (left):

HFSDS3H (right):

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1: 0.63685

TS3MU2: 0.58004

TS4MU1: 0.4276

HFSMU1: 0.4289

FRS-RATES

(counts/spill)

10 kHrtz : 56 k

10 kHrtz veto dT : 52 k

SC21L: $1.5 \cdot 10^6$

SC21R: $1.5 \cdot 10^6$

SC41L: 51 k

SC41R: 51 k

TA1

Element : Au

Thickness : 400 mg/cm²

Position: Center

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 :

FRS :

Ta-ToF-LYCCA : 48 k

HECTOR :

LYCCA

Please check

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

LN2

Last Filling :

Status :

Exp No.	Primary Beam:	Date
MBS/file location /d/nising02/oct16_12/data/	**File (first)** 54Ni_iso_pDScal_ **File (last)** 0009) newAngle 0009.lmd	**Start** 20:25 **Stop** 20:30
Narval/file location	**File (first)** **File (last)**	**Start** **Stop**

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

COMMENTS: **shift-in-charge**

change the sign of wedge angle to check if that is the reason for bad separation

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

54 Ni

FRS setting No.

PRIMARY BEAM

Element:

SIS energy [MeV/u]:

Intensity-SEETRAM:

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number:

element:

thickness:

S2 DEGRADER

TS3ED7...

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

Nb foil:

SC21:

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):

TS3DS2HR (right):

S2 SLITS

☐ beam plug out

TS4DS1HL (left):

TS4DS1HR (right):

S3 SLITS

TS4DS3HL (left):

TS4DS3HR (right):

S4 SLITS

HFSDS3H (left):

HFSDS3H (right):

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1:

TS3MU2:

TS4MU1:

HFSMU1:

FRS-RATES

(counts/spill)

10 kHrtz :

10 kHrtz veto dT :

SC21L:

SC21R:

SC41L:

SC41R:

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 :

FRS :

Ta-ToF-LYCCA :

HECTOR :

LYCCA

Please check

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

LN2

Last Filling :

Status :

Exp No.	Primary Beam:	Date
MBS/file location /d/nsiq02/oct16_12/data	File (first) 54Ni_iso-postcal_ar7_	Start 20:45
	File (last) 0008	Stop 21:15
Narval/file location run-0002	File (first)	Start
	File (last)	Stop

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

COMMENTS: **shift-in-charge**

Slits open again, everything else is unchanged

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:
- SIS energy [MeV/u]:
- Intensity-SEETRAM:

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number:
- element:
- thickness:

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

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): -35
- TS3DS2HR (right): +35

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

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

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

MAGNETS
Field values from Hall probes:
- TS3MU1:
- TS3MU2:
- TS4MU1:
- HFSMU1:

FRS-RATES
(counts/spill)
- 10 kHrtz :
- 10 kHrtz veto dT :
- SC21L:
- SC21R:
- SC41L:
- SC41R:

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 :
- FRS :
- Ta-ToF-LYCCA :
- HECTOR :

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

LN2
- Last Filling :
- Status :

Exp No.	Primary Beam: ar6	Date
MBS/file location /d/nishy02/oct16_12/data	**File (first)** 54Ni_iso_postcal_0007 **File (last)** 0007	**Start** 19:40 **Stop** 20:43
Narval/file location run_0006	**File (first)** **File (last)**	**Start** **Stop**

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

COMMENTS: **shift-in-charge**

error in Narval, no data inside

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:
- SIS energy [MeV/u]
- Intensity-SEETRAM

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number:
- element:
- thickness:

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

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):
- TS3DS2HR (right):

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

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

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

MAGNETS
Field values from Hall probes:
- TS3MU1:
- TS3MU2:
- TS4MU1:
- HFSMU1:

FRS-RATES
(counts/spill)
- 10 kHrtz :
- 10 kHrtz veto dT :
- SC21L:
- SC21R:
- SC41L:
- SC41R:

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 :
- FRS :
- Ta-ToF-LYCCA :
- HECTOR :

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

LN2
- Last Filling :
- Status :

Exp No. S433 | Primary Beam: 58Ni | Date 16.10.2012

MBS/file location /d/nsingo2/ Oct16_12/data/	**File (first)** 54Ni_iso_closslit_ar_ **File (last)** 0006.lmd 0006.lmd	**Start** 19:32 **Stop** 19:37
Narval/file location run_0006	**File (first)** **File (last)**	**Start** **Stop**

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

COMMENTS: **shift-in-charge**

closing S1-slit ±5 mm ; adf Buffersize in Narval was decreased

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: 2 s

period: 6.5 s

Setting Fragment

54Ni

FRS setting No.

S433_04

PRIMARY BEAM

Element: 58Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 3.10^9

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 4 g/cm²

S2 DEGRADER

TS3ED7... 4g

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

Nb foil:

SC21:

S4 DEGRADER

HFSED3...

O (Wedge Oben):

U (Wedge Unten):

S0 SLITS open

☐ beam stop out

TS2DS3HL (left): ~~0.60925~~

TS2DS3HR (right): ~~0.54804~~

TS2DS3VO (top): ~~0.3706~~

TS2DS3VU (bottom): ~~0.3706~~

S1 SLITS

☐ beam plug out

TS3DS2HL (left): −5

TS3DS2HR (right): +5

S2 SLITS

☐ beam plug out

TS4DS1HL (left): −70

TS4DS1HR (right): 70

S3 SLITS open

TS4DS3HL (left):

TS4DS3HR (right):

S4 SLITS open

HFSDS3H (left):

HFSDS3H (right):

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1: 0.60925

TS3MU2: 0.54804

TS4MU1: 0.3692

HFSMU1: 0.3706

FRS-RATES

(counts/spill)

10 kHrtz :

10 kHrtz veto dT :

SC21L: 5.5K

SC21R: 6.0K

SC41L: 140

SC41R: 140

TA1

Element : plastic

Thickness : 1 cm

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 :

Status :

Exp No. S433 Primary Beam: 58Ni Date 16.10.2012

MBS/file location oct16_12/data/mixing021	**File (first)** 54Ni_iso_poscal_ **File (last)** 0005 ar_0005	**Start** 18:51 **Stop** 19:28
Narval/file location run_0804	**File (first)** **File (last)**	**Start** **Stop**

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

COMMENTS: **shift-in-charge**

in the end of the run, fill NARVAL buffer with AGATA singles to ~~fast~~ force adf file readout

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: 2 s

period: 4.5 s

Setting Fragment

~~S433_04~~ 54Ni

FRS setting No.

S433_04

PRIMARY BEAM

Element: 58Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: $3.5 \cdot 10^5$

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 4 g/cm²

S2 DEGRADER

TS3ED7... 4g

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

Nb foil:

SC21:

S4 DEGRADER

HFSED3... /

O (Wedge Oben):

U (Wedge Unten):

S0 SLITS open

☐ beam stop out

TS2DS3HL (left):

TS2DS3HR (right):

TS2DS3VO (top):

TS2DS3VU (bottom):

S1 SLITS

☐ beam plug out

TS3DS2HL (left): -35

TS3DS2HR (right): 35

S2 SLITS

☐ beam plug out

TS4DS1HL (left): -70

TS4DS1HR (right): 70

S3 SLITS open

TS4DS3HL (left):

TS4DS3HR (right):

S4 SLITS open

HFSDS3H (left):

HFSDS3H (right):

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1: 0,60925

TS3MU2: 0.54804

TS4MU1: 0.3697

HFSMU1: 0.3706

FRS-RATES

(counts/spill)

10 kHrtz :

10 kHrtz veto dT :

SC21L: 110 k

SC21R: 126 k

SC41L: 1.0 k

SC41R: 1.0 k

TA1

Element : plastic

Thickness : 1 cm

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 : 870

HECTOR :

LYCCA

Please check

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

LN2

Last Filling : 18:10

Status : OK

Exp No. S433 Primary Beam: 58Ni Date 16.10.2012

MBS/file location /d/nsing02/oct16_12/data/~~stark~~_isopascal	**File (first)** S4Ni_iso_pascal_0003 **File (last)**	**Start** 18:09 **Stop**
Narval/file location run_0003	**File (first)** **File (last)**	**Start** 18:10 **Stop**

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

Check if we see 54Ni isomers

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: 2s

period: 4.5s

Setting Fragment

54Ni

FRS setting No.

S433_04

PRIMARY BEAM

Element: 58Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 3.5 · 10⁹

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 4 g/cm²

S2 DEGRADER

TS3ED7... 4g

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

Nb foil:

SC21:

S4 DEGRADER

HFSED3...

O (Wedge Oben):

U (Wedge Unten):

S0 SLITS open

☐ beam stop out

TS2DS3HL (left):

TS2DS3HR (right):

TS2DS3VO (top):

TS2DS3VU (bottom):

S1 SLITS

☐ beam plug out

TS3DS2HL (left): -35

TS3DS2HR (right): 35

S2 SLITS

☐ beam plug out

TS4DS1HL (left): -70

TS4DS1HR (right): +70

S3 SLITS open

TS4DS3HL (left):

TS4DS3HR (right):

S4 SLITS open

HFSDS3H (left):

HFSDS3H (right):

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1: 0.609 25

TS3MU2: 0.54 804

TS4MU1: 0.3697

HFSMU1: 0.3706

FRS-RATES

(counts/spill)

10 kHrtz : 46 K

10 kHrtz veto dT : 44 K

SC21L: 120 K

SC21R: 120K

SC41L: 1.2K

SC41R: 1.2K

TA1

Element : plastic

Thickness : 1 cm

Position: Forward ~~Center~~

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 : 1K

HECTOR :

LYCCA

Please check

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

LN2

Last Filling : 18:10

Status : OK

Exp No.	Primary Beam:	Date

MBS/file location	File (first) 2	Start 17:50
54Ni-check_0002.lmd	File (last) 2	Stop 18:04
Narval/file location	File (first)	Start
—	File (last)	Stop

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

To check FRS ID

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: 25

period:

Setting Fragment

54Ni

FRS setting No.

5433_04

PRIMARY BEAM

Element: 54Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM:

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 4 mg/cm²

S2 DEGRADER

TS3ED7... 3.8345g/cm²

L (Ladder): 7.83 mm

D (Disk): 63.7

VO (Wedge Oben): -218.2

VU (Wedge Unten): +218.2

Nb foil:

SC21:

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): -35

TS3DS2HR (right): +35

S2 SLITS Open

☐ beam plug out

TS4DS1HL (left):

TS4DS1HR (right):

S3 SLITS Open

TS4DS3HL (left):

TS4DS3HR (right):

S4 SLITS Open

HFSDS3H (left):

HFSDS3H (right):

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1: 0.60915

TS3MU2: 0.5484

TS4MU1: 0.3697

HFSMU1: 0.3706

FRS-RATES

(counts/spill)

10 kHrtz :

10 kHrtz veto dT :

SC21L:

SC21R:

SC41L:

SC41R:

TA1

Element : plastic

Thickness : 1 cm

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 : 12:10

Status : ok.

Exp No. S433 Primary Beam: ~~58~~ 58Ni Date 16.10.2012

MBS/file location /d/nsingo2/oct16_12/calib	File (first) 58Ni_S4 centered_0001.lmd	Start 15:50
	File (last) 0001.lmd	Stop 16:04
Narval/file location	File (first)	Start
	File (last)	Stop

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

COMMENTS: shift-in-charge

centered at S2 and S4

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: 2 s
- period:

Setting Fragment: 58Ni

FRS setting No.: S433_03

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

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

S2 DEGRADER
TS3ED7... 4g
- L (Ladder): −107.7
- D (Disk): 90 grad
- VO (Wedge Oben): −221.3 mm
- VU (Wedge Unten):
- Nb foil:
- SC21:

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

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

S1 SLITS
- ☐ beam plug out
- TS3DS2HL (left): −35
- TS3DS2HR (right): +35

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

S3 SLITS open
- TS4DS3HL (left):
- TS4DS3HR (right):

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

MAGNETS
Field values from Hall probes:
- TS3MU1: 0.65855
- TS3MU2: 0.59754
- TS4MU1: 0.4295
- HFSMU1: 0.4307

FRS-RATES (counts/spill)
- 10 kHrtz :
- 10 kHrtz veto dT :
- SC21L:
- SC21R:
- SC41L:
- SC41R:

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 :
- FRS :
- Ta-ToF-LYCCA :
- HECTOR :

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

LN2
- Last Filling : 12:10
- Status : ok