

EXP No. 526

Primary Beam: *66Cr*

Date

24.03.2014

MBS/file location

101/71515802/mar-AG.74/data

File (first) *66Cr_ismom_0998.ind*
File (last) *66Cr_ismom_1000.ind*

Start *23:40*
Stop *00:49*

(25.03.2014)

Narval/file location

714_0016

File (first)
File (last)

Start
Stop

Merged(Narval+MBS)/file location

File (first)
File (last)

Start
Stop

PURPOSE OF MEASUREMENT: (Centered Isotope)

Calibration run

Production run

COMMENTS:

Identify isomeric decay lines of 66Cu to verify shift-in-charge PRS setting

FRS/BEAMLINE

- SEETRAM
- SCI-01
- FRS-TA0
- S1-degrader
- S2-degrader
- SCI-21
- S4-degrader
- LYCCA-A-Start
- LYCCA-TaStart
- TA1
- TaDSSD

S1 DEGRADER

TS3ED2...
Thickness:
Wedge used:
O2 (Wedge Oben):
V1 (Wedge Unten):

S0 SLITS

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

MAGNETS

Field values from Hall probes:
TS3MU1: *0.85215*
TS3MU2: *0.79634*
TS4MU1: *0.63954*
HFMSMU1: *0.63895*

PreSPEC-Trig/red.

- 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) /.....

S2 DEGRADER

TS3ED7...
Thickness:
L (Ladder):
D (Disk):
VO (Wedge Oben):
VU (Wedge Unten):

S1 SLITS

beam plug out
TS3DS2HL (left):
TS3DS2HR (right):

FRS-RATES

(counts/spill)
10 kHz: *10*
10 kHz veto dT: *10*
SC21L:
SC21R:
SC41L:
SC41R:

S3 SLITS

HFSDS3H (left):
HFSDS3HR (right):

S2 SLITS

beam plug out
TS4DS1HL (left):
TS4DS1HR (right):
TS4DS1VO (left):
TS4DS1VU (right):

FRS-TRIGGER

- SCI21
- SCI41
- Other:

S4 SLITS

HFSDS3H (left):
HFSDS3HR (right):
Pb Brick (top):
Pb Brick (bottom):

PreSPEC-Rates

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

LYCCA / PIs. check

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

LN2

LN2 Last Filling:
Tank1 Vol. (%):
Tank2 Vol. (%):

SPILL

spill length:
period:

FRS setting No.

PRIMARY BEAM

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

PROD. TARGET

TS1ET5HS,
TS1ET5VS:
number:
element:
thickness:

Exp No.		Primary Beam:		Date					
MBS/file location <i>/d/ning 02/mar. AGA4/data</i>		File (first) <i>64 Co setting -- 1001.Lmd</i>		Start					
Narval/file location		File (last)		Stop					
Merged(Narval+MBS)/file location		File (first)		Start					
		File (last)		Stop					
PURPOSE OF MEASUREMENT: (Centered isotope)		File (first)		Start					
		File (last)		Stop					
COMMENTS:		<input checked="" type="checkbox"/> Calibration run		<input type="checkbox"/> Production run					
shift-in-charge									
FRS/BEAMLINE elements <input type="checkbox"/> SEETRAM <input type="checkbox"/> SCI-01 <input type="checkbox"/> FRS-TA0 <input type="checkbox"/> S1-degrader <input type="checkbox"/> S2-degrader <input type="checkbox"/> SCI-21 <input type="checkbox"/> S4-degrader <input type="checkbox"/> LYCCA-Start <input type="checkbox"/> LYCCA-TaStart <input type="checkbox"/> TA1 <input type="checkbox"/> TaDSSD		S1 DEGRADER TS3ED2... Thickness: Wedge used: O2 (Wedge Oben): V1 (Wedge Unten):		S0 SLITS <input type="checkbox"/> beam stop out TS2DS3HL (left): TS2DS3HR (right): TS2DS3VO (top): TS2DS3VU (bottom): S1 SLITS <input type="checkbox"/> beam plug out TS3DS2HL (left): TS3DS2HR (right):		MAGNETS Field values from Hall probes: TS3MU1: TS3MU2: TS4MU1: HF5MU1: FRS-RATES (counts/spill) 10 kHzrtz : 10 kHzrtz veto dT : SC21L: SC21R: SC41L: SC41R:		PreSPEC-Trig/red. <input type="checkbox"/> Pulser(1) /..... <input type="checkbox"/> LYCCA cal(2)/..... <input type="checkbox"/> AgataCal(3)/..... <input type="checkbox"/> HEC Cal(4)/..... <input type="checkbox"/> FRS from TB(5)/... <input type="checkbox"/> p+HEC(6)/..... <input type="checkbox"/> p+Agata(7)/..... <input type="checkbox"/> p+HEC+Lyc(8)/..... <input type="checkbox"/> p+Agata+Lyc(9)/... <input type="checkbox"/> Part-SC41(10)/..... <input type="checkbox"/> Spill-on(12)/..... <input type="checkbox"/> Spill-off(13)/..... FRS-TRIGGER <input type="checkbox"/> SCI21 <input type="checkbox"/> SCI41 <input type="checkbox"/> Other: PreSPEC-Rates (Validated/Rejected) AGATA : FRS : Ta-ToF-LYCCA : HECTOR : LYCCA / Pls. check <input type="checkbox"/> Run-sheet filled <input type="checkbox"/> Run-sheet uploaded on elog LN2 LN2 Last Filling : Tank1 Vol. (%) : Tank2 Vol. (%) :	
SPILL spill length: period: FRS setting No.		S2 DEGRADER TS3ED7... Thickness: L (Ladder): D (Disk): VO (Wedge Oben): VU (Wedge Unten):		S2 SLITS <input type="checkbox"/> beam plug out TS4DS1HL (left): TS4DS1HR (right): TS4DS1VO (left): TS4DS1VU (right):		FRS-RATES (counts/spill) 10 kHzrtz : 10 kHzrtz veto dT : SC21L: SC21R: SC41L: SC41R:		AGATA : FRS : Ta-ToF-LYCCA : HECTOR : LYCCA / Pls. check <input type="checkbox"/> Run-sheet filled <input type="checkbox"/> Run-sheet uploaded on elog LN2 LN2 Last Filling : Tank1 Vol. (%) : Tank2 Vol. (%) :	
PRIMARY BEAM Element: SIS energy [MeV/u] Intensity-SEETRAM		S3 DEGRADER HFSED3... Thickness: O (Wedge Oben): U (Wedge Unten):		S3 SLITS TS4DS3HL (left): TS4DS3HR (right):		SC21L: SC21R: SC41L: SC41R:		LYCCA / Pls. check <input type="checkbox"/> Run-sheet filled <input type="checkbox"/> Run-sheet uploaded on elog LN2 LN2 Last Filling : Tank1 Vol. (%) : Tank2 Vol. (%) :	
PROD. TARGET TS1ET5HS, TS1ET5VS: number: element: thickness:		S4 DEGRADER HFSED3... Thickness: O (Wedge Oben): U (Wedge Unten):		S4 SLITS HFSDS3H (left): HFSDS3H (right): Pb Brick (top): Pb Brick (bottom):		Element : Thickness : Position :		LYCCA / Pls. check <input type="checkbox"/> Run-sheet filled <input type="checkbox"/> Run-sheet uploaded on elog LN2 LN2 Last Filling : Tank1 Vol. (%) : Tank2 Vol. (%) :	

EXP NO.

Primary Beam:

Date 25.03.2014

MBS/file location

d/mring02/mar_A6_A4/data

File (first) 64Fe_Settling_1002.mpd

File (last)

Start 07:50

Stop 04:08

File (first)

File (last)

Start

Stop

File (first)

File (last)

Start

Stop

Merged(Narval+MBS)/file location

PURPOSE OF MEASUREMENT: (Centered Isotope)

run with the 64Fe setting

Calibration run

Production run

COMMENTS:

Changing rate and slits during data taking shift-in-charge final 50-slits -40 +20

FRS/BEAMLINE elements

- SEETRAM
- SCI-01
- FRS-TA0
- S1-degrader
- S2-degrader
- SCI-21
- S4-degrader
- LYCCA-Start
- LYCCA-TaStart
- TA1
- TaDSSD

SPILL

spill length: 4 sec

period: 6 sec

FRS setting No.

S426-25

PRIMARY BEAM

Element: 86Kr

SIS energy [MeV/u] 700

Intensity-SEETRAM 3-10⁸

PROD. TARGET

TS1ET5HS,
TS1ET5VS:

number: 3J

element: Be

thickness: 2.5 g/cm²

S1 DEGRADER

TS3ED2...

Thickness: 2 g/cm²

Wedge used:

O2 (Wedge Oben):

V1 (Wedge Unten):

S2 DEGRADER

TS3ED7...

Thickness: 5 g/cm²

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

S4 DEGRADER

HFSED3...
Thickness:

O (Wedge Oben):

U (Wedge Unten):

MAGNETS

Field values from Hall probes:

TS3MU1: 0.92665

TS3MU2: 0.84164

TS4MU1: 0.73834

HFMSU1: 0.73785

FRS-RATES (counts/spill)

10 kHzrtz: 60260

10 kHzrtz veto dT: 60000

SC21L: 250k

SC21R: 230k

SC41L: 180

SC41R: 180

TA1

Element: Au

Thickness: 2g/cm²

Position: center

S0 SLITS

beam stop out

TS2DS3HL (left):

TS2DS3HR (right):

TS2DS3VO (top):

TS2DS3VU (bottom):

S1 SLITS

beam plug out

TS3DS2HL (left): -60

TS3DS2HR (right): +60

S2 SLITS

beam plug out

TS4DS1HL (left):

TS4DS1HR (right):

TS4DS1VO (left):

TS4DS1VU (right):

S3 SLITS

TS4DS3HL (left):

TS4DS3HR (right):

S4 SLITS

HFSDS3H (left): -35

HFSDS3H (right): +35

Pb Brick (top):

Pb Brick (bottom):

PreSPEC-Trig/red.

- Pulser(1) /.....
- LYCCA cal(2)/.....
- AgataCal(3)/2.4
- 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 / Pls. check

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

LN2

LN2 Last Filling : 01:45

Tank1 Vol. (%) : 55%

Tank2 Vol. (%) : 55%

Exp No. _____ Primary Beam: _____ Date: 25.3.2019

MBS/file location: File (first) 66Cu-⁶³Ningb 2- Start 4:35
 File (last) 1003 Stop 4:42

Narval/file location: Start _____ Stop _____

Merged(Narval+MBS)/file location: Start _____ Stop _____

PURPOSE OF MEASUREMENT: (Centered isotope) Calibration run Production run

COMMENTS: _____ shift-in-charge

FRS/BEAMLINER elements

SEETRAM
 SCI-01
 FRS-TA0
 S1-degrader
 S2-degrader
 SCI-21
 S4-degrader
 LYCCA-Start
 LYCCA-TaStart
 TA1
 TaDSSD

SPILL

spill length: _____
 period: _____

FRS setting No. _____

PRIMARY BEAM

Element: 36 Kr
 SIS energy [MeV/u]: 700
 Intensity-SEETRAM _____

PROD. TARGET

TS1ET5HS,
 TS1ET5VS:
 number: _____
 element: _____
 thickness: _____

S1 DEGRADER

TS3ED2...
 Thickness: 2 g/cm²
 Wedge used: _____
 O2 (Wedge Oben): _____
 V1 (Wedge Unten): _____

S2 DEGRADER

TS3ED7...
 Thickness: 5 g/cm²
 L (Ladder): _____
 D (Disk): 60.9 g/cm²
 VO (Wedge Oben): _____
 VU (Wedge Unten): _____

S4 DEGRADER

HFSED3...
 Thickness: _____
 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): -40
 TS3DS2HR (right): 40

S2 SLITS

beam plug out
 TS4DS1HL (left): _____
 TS4DS1HR (right): _____
 TS4DS1VO (left): _____
 TS4DS1VU (right): _____

S3 SLITS

TS4DS3HL (left): _____
 TS4DS3HR (right): _____

S4 SLITS

HFSDS3H (left): -35
 HFSDS3H (right): 35
 Pb Brick (top): _____
 Pb Brick (bottom): _____

MAGNETS

Field values from Hall probes:
 TS3MU1: 0.35195
 TS3MU2: 0.79644
 TS4MU1: 0.63954
 HF5MU1: 0.63895

FRS-RATES (counts/spill)
 10 kHzrtz : _____
 10 kHzrtz veto dT : _____
 SC21L: 27.000
 SC21R: 23.000
 SC41L: 392
 SC41R: 307

TA1

Element : _____
 Thickness : _____
 Position : _____

PreSPEC-Trig/red.

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 / Pls. check

Run-sheet filled
 Run-sheet uploaded on elog

LN2

LN2 Last Filling : _____
 Tank1 Vol. (%) : _____
 Tank2 Vol. (%) : _____

Exp No.

Primary Beam:

Date

MBS/file location

File (first) 66Cu_neting3_1004_Pond
File (last)

Start

4:41

Narval/file location

File (first)

Start

Merged(Narval+MBS)/file location

File (first)

Start

File (last)

Start

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
- SCI-21
- S4-degrader
- LYCCA-Start
- LYCCA-TaStart
- TA1
- TaDSSD

SPILL

spill length:

period:

FRS setting No.

PRIMARY BEAM

Element: *86Cu*

SIS energy [MeV/u] *700*

Intensity-SEETRAM

PROD. TARGET

TS1E15HS,
TS1E15VS:

number:

element:

thickness:

S1 DEGRADER

TS3ED2...

Thickness: *2g/cm*

Wedge used:

O2 (Wedge Oben):

V1 (Wedge Unten):

S2 DEGRADER

TS3ED7...

Thickness: *5g/cm*

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

S4 DEGRADER

HFSED3...

Thickness:

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): *-40*

TS3DS2HR (right): *+40*

S2 SLITS

beam plug out

TS4DS1HL (left):

TS4DS1HR (right):

TS4DS1VO (left):

TS4DS1VU (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: *0.85195*

TS3MU2: *0.79634*

TS4MU1: *0.63554*

HFSMU1: *0.63855*

FRS-RATES

(counts/spill)

10 kHz: *23000*

10 kHz veto dT: *2200g*

SC21L: *5000*

SC21R: *5000*

SC41L: *5000*

SC41R: *5000*

TA1

Element:

Thickness:

Position:

LN2

LN2 Last Filling:

Tank1 Vol. (%):

Tank2 Vol. (%):

PreSPEC-Trig/red.

- 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 / Pls. check

Run-sheet filled

Run-sheet uploaded on elog

Exp No.

Primary Beam:

Date

MBS/file location

File (first)
File (last)

1005

Start
Stop

502
505

Narval/file location

File (first)
File (last)

Start
Stop

Merged(Narval+MBS)/file location

File (first)
File (last)

Start
Stop

PURPOSE OF MEASUREMENT: (Centered Isotope)

Calibration run

Production run

COMMENTS:

66Cu settings (no slits) shift-in-charge

FRS/BEAMLINE elements

- SEETRAM
- SCI-01
- FRS-TA0
- S1-degrader
- S2-degrader
- SCI-21
- S4-degrader
- LYCCA-Start
- LYCCA-TaStart
- TA1
- TaDSSD

SPILL

spill length:

period:

FRS setting No.

PRIMARY BEAM

Element:

SIS energy [MeV/u]

Intensity-SEETRAM

PROD. TARGET

TS1ET5HS,
TS1ET5VS:

number:

element:

thickness:

S1 DEGRADER

TS3ED2...

Thickness:

Wedge used:

O2 (Wedge Oben):

V1 (Wedge Unten):

S2 DEGRADER

TS3ED7...

Thickness:

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

S4 DEGRADER

HFSED3...

Thickness:

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):

TS4DS1VO (left):

TS4DS1VU (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:

0.85185

TS3MU2:

0.84164

TS4MU1:

0.69524

HF5MU1:

0.69465

FRS-RATES

(counts/spill)

10 kHzrtz :

10 kHzrtz veto dT :

SC21L:

22000

SC21R:

SC41L:

1500

SC41R:

TA1

Element :

Thickness :

Position:

PreSPEC-Trig/red.

- 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 / Pls. check

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

LN2

LN2 Last Filling :

Tank1 Vol. (%) :

Tank2 Vol. (%) :

Exp No.

Primary Beam:

Date

MBS/file location

File (first)
File (last)

Start
Stop

Narval/file location

File (first)
File (last)

Start
Stop

Merged(Narval+MBS)/file location

File (first)
File (last)

Start
Stop

PURPOSE OF MEASUREMENT: (Centered Isotope)

Calibration run Production run

COMMENTS:

shift-in-charge

FRS/BEAMLINE

- SEETRAM
- SCI-01
- FRS-TA0
- S1-degrader
- S2-degrader
- SCI-21
- S4-degrader
- LYCCA-Start
- LYCCA-TaStart
- TA1
- TaDSSD

SPILL

spill length:

period:

FRS setting No.

PRIMARY BEAM

Element:

SIS energy [MeV/u]

Intensity-SEETRAM

PROD. TARGET

TS1ET5HS,
TS1ET5VS:

number:

element:

thickness:

S1 DEGRADER

TS3ED2...

Thickness:

Wedge used:

O2 (Wedge Oben):

V1 (Wedge Unten):

S2 DEGRADER

TS3ED7...

Thickness:

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

S4 DEGRADER

HFSED3...

Thickness:

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):

TS4DS1VO (left):

TS4DS1VU (right):

S3 SLITS

TS4DS3HL (left):

TS4DS3HR (right):

S4 SLITS

HFSDS3H (left):

HFSDS3M (right):

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1:

0.85045

TS3MU2:

0.73484

TS4MU1:

0.63754

HFSMU1:

0.63705

FRS-RATES

(counts/spill)

10 kHzrtz :

10 kHzrtz veto dT :

SC21L:

SC21R:

SC41L:

SC41R:

TA1

Element :

Thickness :

Position:

PreSPEC-Irig/red.

- 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-10F-LYCCA :

HECTOR :

LYCCA / Pls. check

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

LN2

LN2 Last Filling :

Tank1 Vol. (%) :

Tank2 Vol. (%) :

EXP NO.

Primary Beam:

Date 25/3/2014

Start 5:50
Stop 5:51

MBS/file location
Narval/file location
Merged(Narval+MBS)/file location

File (first)
File (last)
File (first)
File (last)
File (first)
File (last)

1007

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
 SCI-21
 S4-degrader
 LYCCA-Start
 LYCCA-TaStart
 TA1
 TaDSSD

S1 DEGRADER
TS3ED2...
Thickness:
Wedge used:
O2 (Wedge Oben):
V1 (Wedge Unten):

S0 SLITS
 beam stop out
TS2DS3HL (left):
TS2DS3HR (right):
TS2DS3VO (top):
TS2DS3VU (bottom):
S1 SLITS
 beam plug out
TS3DS2HL (left):
TS3DS2HR (right):

MAGNETS
Field values from Hall probes:
TS3MU1: 0.85055
TS3MU2: 0.79334
TS4MU1: 0.63754
HF5MU1: 0.63705

PreSPEC-Trig/red.
 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)/.....

SPILL
spill length:
period:

S2 DEGRADER
TS3ED7...
Thickness:
L (Ladder):
D (Disk):
VO (Wedge Oben):
VU (Wedge Unten):

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

FRS-TRIGGER
 SCI21
 SCI41
 Other:
PreSPEC-Rates
(Validated/Rejected)
AGATA :
FRS :
Ta-ToF-LYCCA :
HECTOR :

FRS setting No.
PRIMARY BEAM
Element:
SIS energy [MeV/u]

S3 SLITS
TS4DS3HL (left):
TS4DS3HR (right):
S4 SLITS
HFSDS3H (left):
HFSDS3H (right):
Pb Brick (top):
Pb Brick (bottom):

LYCCA / PIs. check
 Run-sheet filled
 Run-sheet uploaded on elog
LN2
LN2 Last Filling :
Tank1 Vol. (%) :
Tank2 Vol. (%) :

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

TA1
Element:
Thickness:
Position:

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

MBS/file location

File (first)
File (last)

1008

Start
Stop5156
6106

Narval/file location

File (first)
File (last)Start
Stop

Merged(Narval+MBS)/file location

File (first)
File (last)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
 - SCI-21
 - S4-degrader
 - LYCCA-Start
 - LYCCA-TaStart
 - TA1
 - TaDSSD

SPILL

spill length:

period:

FRS setting No.

PRIMARY BEAM

Element:

SIS energy [MeV/u]

Intensity-SEETRAM

PROD. TARGET

TS1ET5HS,
TS1ET5VS:

number:

element:

thickness:

S1 DEGRADER

TS3ED2...

Thickness:

Wedge used:

O2 (Wedge Oben):

V1 (Wedge Unten):

S2 DEGRADER

TS3ED7...

Thickness:

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

S4 DEGRADER

HFSED3...

Thickness:

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):

TS4DS1VO (left):

TS4DS1VU (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:

0.85058

TS3MU2:

0.73264

TS4MU1:

0.63544

HF5MU1:

0.63495

FRS-RATES

(counts/spill)

10 kHzrtz :

10 kHzrtz veto dT :

SC21L:

SC21R:

SC41L:

SC41R:

TA1

Element :

Thickness :

Position:

PreSPEC-Trig/red.

- 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 / Pls. check

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

LN2

LN2 Last Filling :

Tank1 Vol. (%) :

Tank2 Vol. (%) :

MBS/file location
 File (first) 1009 Start 6:16
 File (last) 64 Fe setting Stop 6:26

Narval/file location
 File (first)
 File (last)

Merged(Narval+MBS)/file location
 File (first)
 File (last)

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

COMMENTS:
 shift-in-charge

FRS/BEAMLINE elements

SEETRAM
 SCI-01
 FRS-TAO
 S1-degrader
 S2-degrader
 SCI-21
 S4-degrader
 LYCCA-Start
 LYCCA-TaStart
 TA1
 TaDSSD

SPILL
 spill length:
 period:

FRS setting No.

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

S1 DEGRADER
 TS3ED2...
 Thickness:
 Wedge used:
 O2 (Wedge Oben):
 V1 (Wedge Unten):

S2 DEGRADER
 TS3ED7...
 Thickness:
 L (Ladder):
 D (Disk):
 VO (Wedge Oben):
 VU (Wedge Unten):

S4 DEGRADER
 HFSED3...
 Thickness:
 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):
 TS4DS1VO (left):
 TS4DS1VU (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: 0.92505
 TS3MU2: 0.87664
 TS4MU1: 0.73584
 HFMSU1: 0.73745

FRS-RATES
 (counts/spill)
 10 kHzrtz :
 10 kHzrtz veto dT :
 ISC21L:
 SC21R:
 SC41L:
 SC41R:

TA1
 Element :
 Thickness :
 Position:

PreSPEC-Trig/red.
 Pulser(1) /.....
 LYCCA cal(2)/.....
 AgataCal(3)/.....
 HEC Cal(4)/.....
 FRS from TB(5)/...
 p+HEC(6)/.....
 p+Agata(7)/.....
 p+HEC+Lyc(8)/.....
 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 / Pls. check
 Run-sheet filled
 Run-sheet uploaded on elog

LN2
 LN2 Last Filling :
 Tank1 Vol. (%) :
 Tank2 Vol. (%) :

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

MBS/file location

File (first)
File (last)

1010

Start
Stop6:30
6:35

Narval/file location

File (first)
File (last)

84 Fe - setting Cent

Start
StopFile (first)
File (last)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
- SCI-21
- S4-degrader
- LYCCA-Start
- LYCCA-TaStart
- TA1
- TaDSSD

SPILL

spill length:

period:

FRS setting No.

PRIMARY BEAM

Element:

SIS energy [MeV/u]

Intensity-SEETRAM

PROD. TARGET

TS1ET5HS,
TS1ET5VS:

number:

element:

thickness:

S1 DEGRADER

TS3ED2...

Thickness:

Wedge used:

O2 (Wedge Oben):

V1 (Wedge Unten):

S2 DEGRADER

TS3ED7...

Thickness:

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

S4 DEGRADER

HFSED3...

Thickness:

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):

-40

TS3DS2HR (right):

+40

S2 SLITS

-
- beam plug out

TS4DS1HL (left):

TS4DS1HR (right):

TS4DS1VO (left):

TS4DS1VU (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:

0.32525

TS3MU2:

0.37114

TS4MU1:

0.73664

HFSMU1:

0.73605

FRS-RATES

(counts/spill)

10 kHzrtz :

10 kHzrtz veto dT :

SC21L:

SC21R:

SC41L:

SC41R:

TA1

Element :

Thickness :

Position:

PreSPEC-Trig/red.

- 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 / Pls. check

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

LN2

LN2 Last Filling :

Tank1 Vol. (%) :

Tank2 Vol. (%) :

exp no.

Primary Beam: *W*

Date

25/03/2014

Start *6:35*

Stop *8:40*

Start *6:39*

Stop *8:40*

MBS/file location

File (first)

File (last)

10M

Narval/file location

RR 49

File (first)

File (last)

64E-production

Merged(Narval+MBS)/file location

File (first)

File (last)

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
- SCI-21
- S4-degrader
- LYCCA-Start
- LYCCA-TaStart
- TA1
- TaDSSD

SPILL

spill length:

period:

FRS setting No.

PRIMARY BEAM

Element:

SIS energy [MeV/u]

Intensity-SEETRAM

PROD. TARGET

TS1ET5HS,
TS1ET5VS:

number:

element:

thickness:

S1 DEGRADER

TS3ED2...
Thickness:
Wedge used:
O2 (Wedge Oben):
V1 (Wedge Unten):

S2 DEGRADER

TS3ED7...
Thickness:
L (Ladder):
D (Disk):
VO (Wedge Oben):
VU (Wedge Unten):

S4 DEGRADER

HFSED3...
Thickness:
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):
TS4DS1VO (left):
TS4DS1VU (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: *0.92515*
TS3MU2: *0.87114*
TS4MU1: *0.73664*
HFMSMU1: *0.73605*

FRS-RATES

(counts/spill)
10 kHzrtz :
10 kHzrtz veto dT :

PreSPEC-Rates

(Validated/Rejected)

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

LYCCA / Pls. check

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

LN2

LN2 Last Filling :

Tank1 Vol. (%) :

Tank2 Vol. (%) :

TA1

Element :
Thickness :
Position :

- PreSPEC-Trig/red.
- 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:

Exp No.

Primary Beam:

Date

25/31/2014

MBS/file location

File (first)
File (last)

10 12

Start 6:45
Stop 8:30

Narval/file location

File (first) 64Fe - m49_coder
File (last)

Start
Stop

Merged(Narval+MBS)/file location

File (first)
File (last)
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
- SCI-21
- S4-degrader
- LYCCA-Start
- LYCCA-TaStart
- TA1
- TaDSSD

S1 DEGRADER

TS3ED2...
Thickness: 2g/cm²
Wedge used: I
O2 (Wedge Oben): -31.2
V1 (Wedge Unten): -252.7

S0 SLITS

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

MAGNETS

Field values from Hall probes:

TS3MU1: 0.92505
TS3MU2: 0.87414
TS4MU1: 0.73664
HFMSU1: 0.73605

PreSPEC-Trig/red.

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

SPILL

spill length: 45
period: 65

S2 DEGRADER

TS3ED7...
Thickness: 5g/cm²
L (Ladder):
D (Disk): 60.6
VO (Wedge Oben): -298.0
VU (Wedge Unten): -298.0

S2 SLITS

beam plug out
TS4DS1HL (left):
TS4DS1HR (right):
TS4DS1VO (left):
TS4DS1VU (right):

FRS-RATES

(counts/spill)

10 kHzrtz :
10 kHzrtz veto dT :
SC21L: 260.000
SC21R: 274.000
SC41L: 5540
SC41R: 5480

PreSPEC-Rates (Validated/Rejected)

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

FRS-TRIGGER

- SCI21
- SCI41
- Other:

S4 DEGRADER

HFSED3...
Thickness:
O (Wedge Oben):
U (Wedge Unten):

S4 SLITS

HFSDS3H (left): #35
HFSDS3H (right): #35
Pb Brick (top):
Pb Brick (bottom):

TA1

Element: Au
Thickness: 2g/cm²
Position: cential

PROD. TARGET

TS1ET5HS,
TS1ET5VS:
number: # 35
element: be
thickness: 2.5

LYCCA / PIs. check

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

LN2

LN2 Last Filling : 1.50
Tank1 Vol. (%) : 56
Tank2 Vol. (%) : 55

EXP NO.

Primary Beam:

Date

15/3/2014

MBS/file location
Narval/file location
Merged(Narval+MBS)/file location

File (first)
File (last)
File (first)
File (last)
File (first)
File (last)

1003
64Fe-art4S_coulou

Start
Stop
Start
Stop
Start
Stop

10:05
10:05

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
 SCI-21
 S4-degrader
 LYCCA-Start
 LYCCA-TaStart
 TA1
 TaDSSD

S1 DEGRADER
TS3ED2...
Thickness: 2g/cm²
Wedge used: 1
O2 (Wedge Oben): -31, 2
V1 (Wedge Unten): -25, 7

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

MAGNETS
Field values from Hall probes:
TS3MU1: 0.52555
TS3MU2: 0.8744
TS4MU1: 0.73664
HF5MU1: 0.73605

PreSPEC-Trig/red.
 Pulser(1) /
 LYCCA cal(2) /
 AgataCal(3) / ...4
 HEC Cal(4) /
 FRS from TB(5) / ...
 p+HEC(6) /
 p+Agata(7) /
 p+HEC+Lyc(8) / ...Q
 p+Agata+Lyc(9) / ...C
 Part-SC41(10) / ...S
 Spill-on(12) /
 Spill-off(13) /
FRS-TRIGGER
 SCI21
 SCI41
 Other:

SPILL
spill length: 20
period:

S2 DEGRADER
TS3ED7...
Thickness:
L (L-adder):
D (Disk):
VO (Wedge Oben):
VU (Wedge Unten):

S1 SLITS
 beam plug out
TS3DS2HL (left): -40
TS3DS2HR (right): +40

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

PreSPEC-Rates
(Validated/Rejected)
AGATA :
FRS :
Ta-Top-LYCCA :
HECTOR :
LYCCA / Pls. check
 Run-sheet filled
 Run-sheet uploaded on elog
LN2
LN2 Last Filling :
Tank1 Vol. (%) :
Tank2 Vol. (%) :

FRS setting No.
5426-28

S3 SLITS
TS4DS3HL (left):
TS4DS3HR (right):
S4 SLITS
HFSDS3H (left): -35
HFSDS3H (right): +35
Pb Brick (top):
Pb Brick (bottom):

S2 SLITS
 beam plug out
TS4DS1HL (left):
TS4DS1HR (right):
TS4DS1VO (left):
TS4DS1VU (right):

PreSPEC-Rates
(Validated/Rejected)
AGATA :
FRS :
Ta-Top-LYCCA :
HECTOR :
LYCCA / Pls. check
 Run-sheet filled
 Run-sheet uploaded on elog
LN2
LN2 Last Filling :
Tank1 Vol. (%) :
Tank2 Vol. (%) :

PRIMARY BEAM
Element: 86 Kr
SIS energy [MeV/u]: 700
Intensity-SEETRAM
2x10⁶

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

S3 SLITS
TS4DS3HL (left):
TS4DS3HR (right):
S4 SLITS
HFSDS3H (left): -35
HFSDS3H (right): +35
Pb Brick (top):
Pb Brick (bottom):

PreSPEC-Rates
(Validated/Rejected)
AGATA :
FRS :
Ta-Top-LYCCA :
HECTOR :
LYCCA / Pls. check
 Run-sheet filled
 Run-sheet uploaded on elog
LN2
LN2 Last Filling :
Tank1 Vol. (%) :
Tank2 Vol. (%) :

PROD. TARGET
TS1ET5HS,
TS1ET5VS:
number:
element: Se
thickness: 2.5

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

S3 SLITS
TS4DS3HL (left):
TS4DS3HR (right):
S4 SLITS
HFSDS3H (left): -35
HFSDS3H (right): +35
Pb Brick (top):
Pb Brick (bottom):

PreSPEC-Rates
(Validated/Rejected)
AGATA :
FRS :
Ta-Top-LYCCA :
HECTOR :
LYCCA / Pls. check
 Run-sheet filled
 Run-sheet uploaded on elog
LN2
LN2 Last Filling :
Tank1 Vol. (%) :
Tank2 Vol. (%) :

PROD. TARGET
TS1ET5HS,
TS1ET5VS:
number:
element: Au
thickness: 2.8/cm²
Position: central

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

S3 SLITS
TS4DS3HL (left):
TS4DS3HR (right):
S4 SLITS
HFSDS3H (left): -35
HFSDS3H (right): +35
Pb Brick (top):
Pb Brick (bottom):

PreSPEC-Rates
(Validated/Rejected)
AGATA :
FRS :
Ta-Top-LYCCA :
HECTOR :
LYCCA / Pls. check
 Run-sheet filled
 Run-sheet uploaded on elog
LN2
LN2 Last Filling :
Tank1 Vol. (%) :
Tank2 Vol. (%) :

Check list

Name: *Damia Padet*

Time: *13M24* *the 23th Mars 2014.*

Agata

- Run number: *51*
- Agava requested: *202*
- Agava validated: *168.*
- Screenshot trigger rate + spectrum of time coincidence: ✓
- Check in Go4 that all Agata-TDC spectra are there: *(21 spectra : OK)*
- Check that the last .cdat files has been written less then 10 minutes ago for all the crystals: ✓
- Copy and paste in a text file the GTS rate: ✓
- Check Spectra of all crystals: ✓
- Check at the sum spectra "Global level":
 - number of counts in 511 keV: } *No global.*
 - number of counts in 1460 keV K: }

- Crystals with problems: *SA is error.*

General

- lmd file nr: *1015*
- Beam intensity: *7C in back*
- Scaler sc at S4: *4024*
- Scaler sc at S2: *1.9e6*
- Check in Go4 all the spectra of the list*: *7B off.*
- Check in Go4 the hit pattern of the Wall: ✓
- Check in Go4 the triggers: ✓

Comments:

Electronic need to be reboot for SA and 7C.

Exp No. _____ Date 25/3/2014 Primary Beam: _____

MBS/file location File (first) _____ File (last) 1015 Start 13:30
 Narval/file location File (first) _____ File (last) _____ Stop _____
 Merged(Narval+MBS)/file location File (first) 64Fe - in 51-cooler Start _____ Stop _____
 File (first) _____ Start _____ Stop _____
 File (last) _____ Start _____ Stop _____

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

COMMENTS: _____ shift-in-charge _____

FRS/BEAMLINE elements

SEETRAM
 SCI-01
 FRS-TAO
 S1-degrader
 S2-degrader
 SCI-21
 S4-degrader
 LYCCA-Start
 LYCCA-TaStart
 TA1
 TaDSSD

SPILL

spill length: 1A
 period: _____
 FRS setting No. S426 - 28

PRIMARY BEAM

Element: ⁹⁶Kr
 SIS energy [MeV/u] 700
 Intensity-SEETRAM 1.2.10⁵

PROD. TARGET

TS1ET5HS, TS1ET5VS:
 number: # 35
 element: Be
 thickness: 2.5

S1 DEGRADER

TS3ED2...
 Thickness: 28/cm²
 Wedge used: 1
 O2 (Wedge Oben): - 31.2
 V1 (Wedge Unten): - 252.7

S2 DEGRADER

TS3ED7...
 Thickness: 58/cm²
 L (Ladder): _____
 D (Disk): 60.6
 VO (Wedge Oben): - 258.0
 VU (Wedge Unten): - 258.0

S4 DEGRADER

HFSED3...
 Thickness: _____
 O (Wedge Oben): _____
 U (Wedge Unten): _____

S0 SLITS

beam stop out
 TS2DS3HL (left): _____
 TS2DS3HR (right): 8.5
 TS2DS3VO (top): _____
 TS2DS3VU (bottom): _____

S1 SLITS

beam plug out
 TS3DS2HL (left): - 40.0
 TS3DS2HR (right): + 40.0

S2 SLITS

beam plug out
 TS4DS1HL (left): _____
 TS4DS1HR (right): 8.5
 TS4DS1VO (left): _____
 TS4DS1VU (right): _____

S3 SLITS

TS4DS3HL (left): _____
 TS4DS3HR (right): _____

S4 SLITS

HFSDS3H (left): - 35
 HFSDS3H (right): + 35
 Pb Brick (top): _____
 Pb Brick (bottom): _____

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): _____
 TS4DS1VO (left): _____
 TS4DS1VU (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: 0.32505
 TS3MU2: 0.87M4
 TS4MU1: 0.73664
 HFMSMU1: 0.73605

FRS-RATES (counts/spill)
 10 kHzrtz: _____
 10 kHzrtz veto dT: _____
 SC21L: 495000
 SC21R: 380000
 SC41L: 6400
 SC41R: 6300

TA1

Element: Au
 Thickness: 28/cm²
 Position: central

FRS-TRIGGER

SCI21
 SCI41
 Other: _____

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

LYCCA / Pls. check

Run-sheet filled
 Run-sheet uploaded on elog

LN2

LN2 Last Filling: 13:30
 Tank1 Vol. (%): 95
 Tank2 Vol. (%): 87

PreSPEC-Trig/red.

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

Exp No.

Primary Beam:

Date

MBS/file location
/M/ rising 02/mar_A6-14/data

File (first) Fe-64-FRS-6u-1020
File (last) lead

Start
Stop

23:20

Narval/file location

File (first)
File (last)

Start
Stop

Merged(Narval+MBS)/file location

File (first)
File (last)

Start
Stop

PURPOSE OF MEASUREMENT: (Centered Isotope)

have problems reloading last FRS setting. Working bill to check accuracy of shift-in-charge beam optics

COMMENTS:

Calibration run

Production run

FRS/BEAMLINE

- elements
- SEETRAM
- SCI-01
- FRS-TA0
- S1-degrader
- S2-degrader
- SCI-21
- S4-degrader
- LYCCA-Start
- LYCCA-TaStart
- TA1
- TaDSSD

SPILL

spill length:

period:

FRS setting No.

PRIMARY BEAM

Element:

SIS energy [MeV/u]:

Intensity-SEETRAM

PROD. TARGET

TS1ET5HS,
TS1ET5VS:
number:

element:

thickness:

S1 DEGRADER

TS3ED2...
Thickness:

Wedge used:

O2 (Wedge Oben):

V1 (Wedge Unten):

S2 DEGRADER

TS3ED7...
Thickness:

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

S4 DEGRADER

HFSED3...
Thickness:

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):
- TS4DS1VO (left):
- TS4DS1VU (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: 0.92525

TS3MU2: 0.87114

TS4MU1: 0.73664

HF5MU1: 0.73605

FRS-RATES

(counts/spill)

10 kHzrtz :

10 kHzrtz veto dT :

SC21L:

SC21R:

SC41L:

SC41R:

TA1

Element :

Thickness :

Position:

PreSPEC-Trig/red.

- 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 / Pis. check

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

LN2

LN2 Last Filling :

Tank1 Vol. (%) :

Tank2 Vol. (%) :

Exp No. Primary Beam: *80Kr* Date *26.03.2014*

MBS/file location File (first) *Fe_64* (last) *AR55_1021* Start *0:58*
 Narval/file location File (first) File (last) Stop
run 55

Merged(Narval+MBS)/file location File (first) File (last) Start
 File (first) File (last) Stop
 File (first) File (last) Start
 File (last) Stop

PURPOSE OF MEASUREMENT: (Centered Isotope) Calibration run Production run
Sabary Coulex Aoba

COMMENTS: *shift-in-charge*
** ⁶⁴Fe production is less than before (only 4% instead of 25%)*

FRS/BEAMLINE

elements
 SEETRAM
 SCI-01
 FRS-TA0
 S1-degrader
 S2-degrader
 SCI-21
 S4-degrader
 LYCCA-A-Start
 LYCCA-TaStart
 TA1
 TaDSSD

S1 DEGRADER
 TS3ED2...
 Thickness: *29/cm 2*
 Wedge used: *1*
 O2 (Wedge Oben): *-31.25*
 V1 (Wedge Unten): *-252.7*

S2 DEGRADER
 TS3ED7...
 Thickness: *59/cm 2*
 L (Ladder): *-107.7*
 D (Disk): *60.7*
 VO (Wedge Oben): *-298.0*
 VU (Wedge Unten): *-298.0*

S3 SLITS
 beam stop out
 TS2DS3HL (left):
 TS2DS3HR (right):
 TS2DS3VO (top):
 TS2DS3VU (bottom):
S1 SLITS
 beam plug out
 TS3DS2HL (left): *-19*
 TS3DS2HR (right): *20*

S2 SLITS
 beam plug out
 TS4DS1HL (left):
 TS4DS1HR (right):
 TS4DS1VO (left): *20*
 TS4DS1VU (right):
S3 SLITS
 TS4DS3HL (left):
 TS4DS3HR (right):
S4 SLITS
 HFSDS3H (left): *35*
 HFSDS3L (right): *33*
 Pb Brick (top):
 Pb Brick (bottom):

SPILL
 spill length: *1 sec*
 period: *2.5 sec*

FRS setting No.
5426-28

PRIMARY BEAM
 Element: *Kv*
 SIS energy [MeV/u]: *700*
 Intensity-SEETRAM: *1.4x10¹⁴*

PROD. TARGET
 TS1ET5HS,
 TS1ET5VS:
 number: *35*
 element: *Be*
 thickness: *2.5g/cm²*

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):
 TS4DS1VO (left):
 TS4DS1VU (right):
S3 SLITS
 TS4DS3HL (left):
 TS4DS3HR (right):
S4 SLITS
 HFSDS3H (left):
 HFSDS3L (right):
 Pb Brick (top):
 Pb Brick (bottom):

S1 DEGRADER
 TS3ED2...
 Thickness: *29/cm 2*
 Wedge used: *1*
 O2 (Wedge Oben): *-31.25*
 V1 (Wedge Unten): *-252.7*

S2 DEGRADER
 TS3ED7...
 Thickness: *59/cm 2*
 L (Ladder): *-107.7*
 D (Disk): *60.7*
 VO (Wedge Oben): *-298.0*
 VU (Wedge Unten): *-298.0*

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

MAGNETS
 Field values from Hall probes:
 TS3MU1: *0.92515*
 TS3MU2: *0.87114*
 TS4MU1: *0.73664*
 HF5MU1: *0.73605*

FRS-RATES
 (counts/spill)
 10 kHzrtz :
 10 kHzrtz veto dT :
 SC21L: *491,000*
 SC21R: *403,000*
 SC41L: *4800*
 SC41R: *4700*

TA1
 Element: *As*
 Thickness: *29/cm 2*
 Position: *central*

PreSPEC-Trig/red.
 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: *50/610*
 FRS:
 Ta-ToF-LYCCA :
 HECTOR :
 LYCCA / Pls. check
 Run-sheet filled
 Run-sheet uploaded on elog

LN2
 LN2 Last Filling : *19:40pm*
 Tank1 Vol. (%) : *84*
 Tank2 Vol. (%) : *78*

Check list

Name: *Wolter*

Time: *01:34*

Agata

- Run number: *55*
- Agava requested: *334*
- Agava validated: *246*
- Screenshot trigger rate + spectrum of time coincidence: ✓
- Check in Go4 that all Agata-TDC spectra are there: ✓
- Check that the last .cdat files has been written less then 10 minutes ago for all the crystals: ✓
- Copy and paste in a text file the GTS rate: ✓
- Check Spectra of all crystals: ✓
- Check at the sum spectra "Global level": ✓
- - number of counts in 511 keV:
- - number of counts in 1460 keV K:
- Crystals with problems:

General

- lmd file nr: *A02A*
- Beam intensity: *~ 1.3 x 10⁹*
- Scaler sc at S4: *~ 16000*
- Scaler sc at S2: *~ 970000*
- Check in Go4 all the spectra of the list*:
- Check in Go4 the hit pattern of the Wall ✓
- Check in Go4 the triggers: *1, 3, 8, 9, 10*

Comments:

TR 3 reduced → factor 8

Exp No. _____ Primary Beam: _____ Date _____

MBS/file location *cd/visiting02/mar_Abr_14/data* File (first) *1022* Start *02:45*
 File (last) _____ Stop _____

Narval/file location _____ File (first) _____ Start _____
 File (last) *run 55* Stop _____

Merged(Narval+MBS)/file location _____ File (first) _____ Start _____
 File (last) _____ Stop _____

PURPOSE OF MEASUREMENT: (Centered Isotope) Calibration run Production run
⁶⁴Tc complex

COMMENTS: *shift-in-charge Marc*

FRS/BEAMLINE

elements
 SEETRAM
 SCI-01
 FRS-TA0
 S1-degrader
 S2-degrader
 SCI-21
 S4-degrader
 LYCCA-Start
 LYCCA-TaStart
 TA1
 TaDSSD

SPILL
 spill length: *15*
 period: *2.85*
 FRS setting No. *5426-28*

S1 DEGRADER
 TS3ED2...
 Thickness: *29 cm²*
 Wedge used: *1*
 O2 (Wedge Oben): *-34.2*
 V1 (Wedge Unten): *-252.7*

S2 DEGRADER
 TS3ED7...
 Thickness: *59 cm²*
 L (Ladder): *-104.7*
 D (Disk): *60.6*
 VO (Wedge Oben): *-238*
 VU (Wedge Unten): *-238*

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

PRIMARY BEAM
 Element: *86Kr³³⁺*
 SIS energy [MeV/u]: *700.000*
 Intensity-SEETRAM: *1.4.109*

PROD. TARGET
 TS1ET5HS, TS1ET5VS:
 number: *# 35*
 element: *Be*
 thickness: *75*

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

S1 SLITS
 beam plug out
 TS3DS2HL (left): *-45*
 TS3DS2HR (right): *+40*

S2 SLITS
 beam plug out
 TS4DS1HL (left): _____
 TS4DS1HR (right): _____
 TS4DS1VO (left): _____
 TS4DS1VU (right): _____

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

S4 SLITS
 HFSDS3H (left): *-35*
 HFSDS3H (right): *+35*
 Pb Brick (top): _____
 Pb Brick (bottom): _____

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): _____
 TS4DS1VO (left): _____
 TS4DS1VU (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: *0.92525*
 TS3MU2: *0.87114*
 TS4MU1: *0.73664*
 HF5MU1: *0.73605*

FRS-RATES
 (counts/spill)
 10 kHzrtz: *26670*
 10 kHzrtz velo dT: *25980*
 SC21L: *500k*
 SC21R: *480k*
 SC41L: *4800*
 SC41R: *4600*

FRS-TRIGGER
 SCI21
 SCI41
 Other:

PreSPEC-Rates
 (Validated/Rejected)
 AGATA: *450/340*
800
 FRS: *500*
 Ta-ToF-LYCCA: *500*
 HECTOR: *500*

PreSPEC-Trig/red.
 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) /

LYCCA / Pls. check
 Run-sheet filled
 Run-sheet uploaded on elog

LN2
 LN2 Last Filling: *01:56am*
 Tank1 Vol. (%): *79*
 Tank2 Vol. (%): *70*

Exp No. _____ Primary Beam: _____ Date _____

MBS/file location *d:\nsd\coll\mcg\Ag_14\data* File (first) *1026* Start *3:40*
 File (last) _____ Stop _____

Narval/file location _____ File (first) _____ Start _____
 File (last) *run55* Stop _____

Merged(Narval+MBS)/file location _____ File (first) _____ Start _____
 File (last) _____ Stop _____

PURPOSE OF MEASUREMENT: (Centered isotope)
64Fe complex Calibration run Production run

COMMENTS: **shift-in-charge**

FRS/BEAMLINE

elements
 SEETRAM
 SCI-01
 FRS-TA0
 S1-degrader
 S2-degrader
 SCI-21
 S4-degrader
 LYCCA-Start
 LYCCA-TaStart
 TA1
 TaDSSD

SPILL
 spill length: *1s*
 period: *2.5s*

FRS setting No.
5426-28

S1 DEGRADER
 TS3ED2...
 Thickness: *2g/cm²*
 Wedge used: *1*
 O2 (Wedge Oben): *-3A.2*
 V1 (Wedge Unten): *-2S2.7*

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

S1 SLITS
 beam plug out
 TS3DS2HL (left): *15*
 TS3DS2HR (right): *40*

MAGNETS
 Field values from Hall probes:
 TS3MU1: *0.92515*
 TS3MU2: *0.87124*
 TS4MU1: *0.73665*
 HF5MU1: *0.73605*

FRS-RATES
 (counts/spill)
 10 kHzrtz: *28098*
 10 kHzrtz veto dT: *26786*
 SC21L: *500k*
 SC21R: *480k*
 SC41L: *4700*
 SC41R: *4500*

PreSPEC-Trig/red.
 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:

S2 DEGRADER
 TS3ED7...
 Thickness: *6g/cm²*
 L (Ladder): *-107.7*
 D (Disk): *60.6*
 VO (Wedge Oben): *-298*
 VU (Wedge Unten): *-218*

S4 DEGRADER
 HF3ED3...
 Thickness: _____
 O (Wedge Oben): _____
 U (Wedge Unten): _____

PROD. TARGET
 TS1ET5HS,
 TS1ET5VS:
 number: *# 35*
 element: *Be*
 thickness: *2.5*

S2 SLITS
 beam plug out
 TS4DS1HL (left): _____
 TS4DS1HR (right): _____
 TS4DS1VO (left): _____
 TS4DS1VU (right): _____

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

S4 SLITS
 HF5DS3H (left): *35*
 HF5DS3H (right): *+35*
 Pb Brick (top): _____
 Pb Brick (bottom): _____

PreSPEC-Rates
 (Validated/Rejected)
 AGATA: *350/450*
 FRS: *400*
 Ta-ToF-LYCCA: *400*
 HECTOR: *400*

LYCCA / Pls. check
 Run-sheet filled
 Run-sheet uploaded on elog

LN2
 LN2 Last Filling: *01.56am*
 Tank1 Vol. (%): *79*
 Tank2 Vol. (%): *70*

PRIMARY BEAM
 Element: *86Kr 38+*
 SIS energy [MeV/u]: *700*
 Intensity-SEETRAM: *1.4.105*

TA1
 Element: *mu*
 Thickness: *2g/cm²*
 Position: *central*

Check list

Name: N. Zaboye

Time: 03:30

Agata

- Run number: 55
- Agava requested: 542
- Agava validated: 442
- Screenshot trigger rate + spectrum of time coincidence: ✓
- Check in Go4 that all Agata-TDC spectra are there: ✓
- Check that the last .cdat files has been written less then 10 minutes ago for all the crystals: ✓
- Copy and paste in a text file the GTS rate: ✓
- Check Spectra of all crystals: ✓
- Check at the sum spectra "Global level":
 - number of counts in 511 keV:
 - number of counts in 1460 keV K:
- Crystals with problems:

General

- lmd file nr: 1025
- Beam intensity: 1.4×10^9
- Scaler sc at S4: $\sim 1.5 \times 10^4$
- Scaler sc at S2: $\sim 9 \times 10^5$
- Check in Go4 all the spectra of the list*:
- Check in Go4 the hit pattern of the Wall: ✓
- Check in Go4 the triggers: 1, 3, 8, 9, 10

Comments: For details on ~~see~~ lmd-files 1023
1024
1025, see the log-book