

Exp No. 5433 Primary Beam: 58Ni Date 19th Oct.

MBS/file location: ./21st/2021/04/16_12/ data File (first): 52fe_dec_ar23_0265 Start: 11:37 pm
 File (last): run23.. Stop: 11:37

Narval/file location: ./121016-gaba/ File (first): run23.. Start: 11:37 pm
 File (last): run23.. Stop: 11:37

PURPOSE OF MEASUREMENT: (Centered Isotope) Calibration run Production run
⁶²Fe center, Au - 400mg/cm² at forward position.

COMMENTS: Beam Back at 11am shift-in-charge Namika, Calin, S. leoni, V. Ika.

- 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

PRIMARY BEAM

Element: 58Ni

SIS energy [MeV/u]: 600 MeV/u

Intensity-SEETRAM: 4.3 x 10⁹

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 36

element: Be

thickness: 400mg/cm²

S2 DEGRADER

TS3ED7...

L (Ladder):

D (Disk): 65 gsd

VO (Wedge Oben): -218.2

VU (Wedge Unten): -218.2

Nb foil: —

SC21: 3.25mm

S4 DEGRADER

HFSED3...

O (Wedge Oben):

U (Wedge Unten):

S0 SLITS

beam stop out

TS2DS3HL (left):

TS2DS3HR (right):

TS2DS3VO (top):

TS2DS3VU (bottom):

S1 SLITS

beam plug out

TS3DS2HL (left): -20

TS3DS2HR (right): 20

S2 SLITS

beam plug out

TS4DS1HL (left): -10

TS4DS1HR (right): 70

S3 SLITS

TS4DS3HL (left): -30

TS4DS3HR (right): +10

S4 SLITS

HFSDS3H (left): -20

HFSDS3H (right): +20

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1: 0.637724

TS3MU2: 0.58054

TS4MU1: 0.4276

HFSMU1: 0.4289

FRS-RATES

(counts/spill)

10 kHzrtz : 32R

10 kHzrtz veto dT : 24R

SC21L: 274K

SC21R: 523K

SC41L: 126k

SC41R: 124K

TA1

Element : Au

Thickness : 400mg/cm²

Position: forward

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

- FRS-TRIGGER**
- SCI21
 - SCI41
 - Other:

PreSPEC-Rates

(Validated/Rejected)

AGATA : 118 R

FRS :

Ta-ToF-LYCCA :

HECTOR :

LYCCA

Please check

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

LN2

Last Filling : 8am

Status : OK

GATE VALVES

Check if gate valves were open throughout this file:

- open at START
- open at STOP

SPILL

spill length: 3 seconds

period:

Setting Fragment

52fe

FRS setting No.

5433_05

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: 19.10.2012 Time: 08:00 hrs

Data file : /rida02/oct16_12/data/52Fe_dec_ar20_0258

Leakage currents and bias DSSSD and Csl detectors:

BIAS Csl Wall: - 34.8 V

BIAS DSSSD Wall: -49.8 V

BIAS DSSSD Target: -49.9 V

HV 0/1: -560 nA HV 1/1: -3700 nA HV 2/1: -330 nA HV 3/1: -2190 nA

HV 0/2: -3430 nA HV 1/2: -2620 nA HV 2/2: -1740 nA HV 3/2: -780 nA

HV 0/3: -3110 nA HV 1/3: -2300 nA HV 2/3: -1400 nA

HV 0/4: -4240 nA HV 1/4: -380 nA HV 2/4: -1870 nA HV 3/4: -5080 nA

BIAS and currents ToF-detector PMTs:

BIAS ToF Start (600-615): 900 V Average currents ToF Start: 644 μ A

BIAS ToF Target (501-503): 750 V Average currents ToF Target: 652 μ A

BIAS ToF Stop (100-215): 700 V Average currents ToF Stop: 250 μ A

Signal heights ToF monitors: (all signals are there)

ToF Start (LYC5): 1.1 V (5 μ s) or connected to CFD (no monitor)

ToF Target (LYC6): 1.2 V (5 μ s) or connected to CFD (no monitor)

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

All RAW LYCCA spectra checked and zeroed: Yes

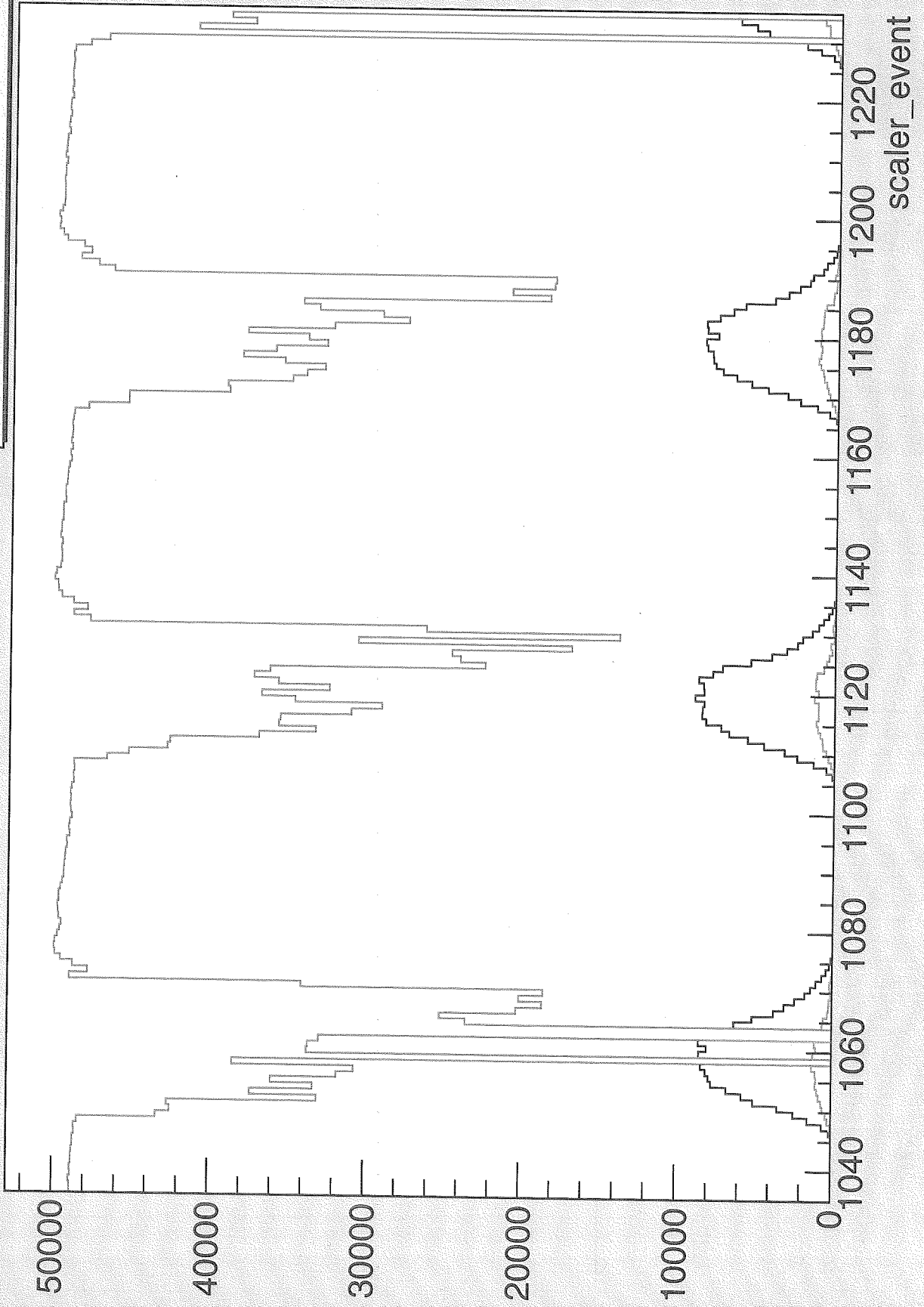
If the DSSSD or Csl leakage currents exceed 10 μ A or
if the ToF monitor signals on the scope are OUTSIDE 0.3 V < height < 3 V

CONTACT LYCCA PERSONNEL!!

scaler input 54
on signals
P+8 coin

scal_input02 09:12:23 2012-10-19 Analysis/Histograms/Raw_d

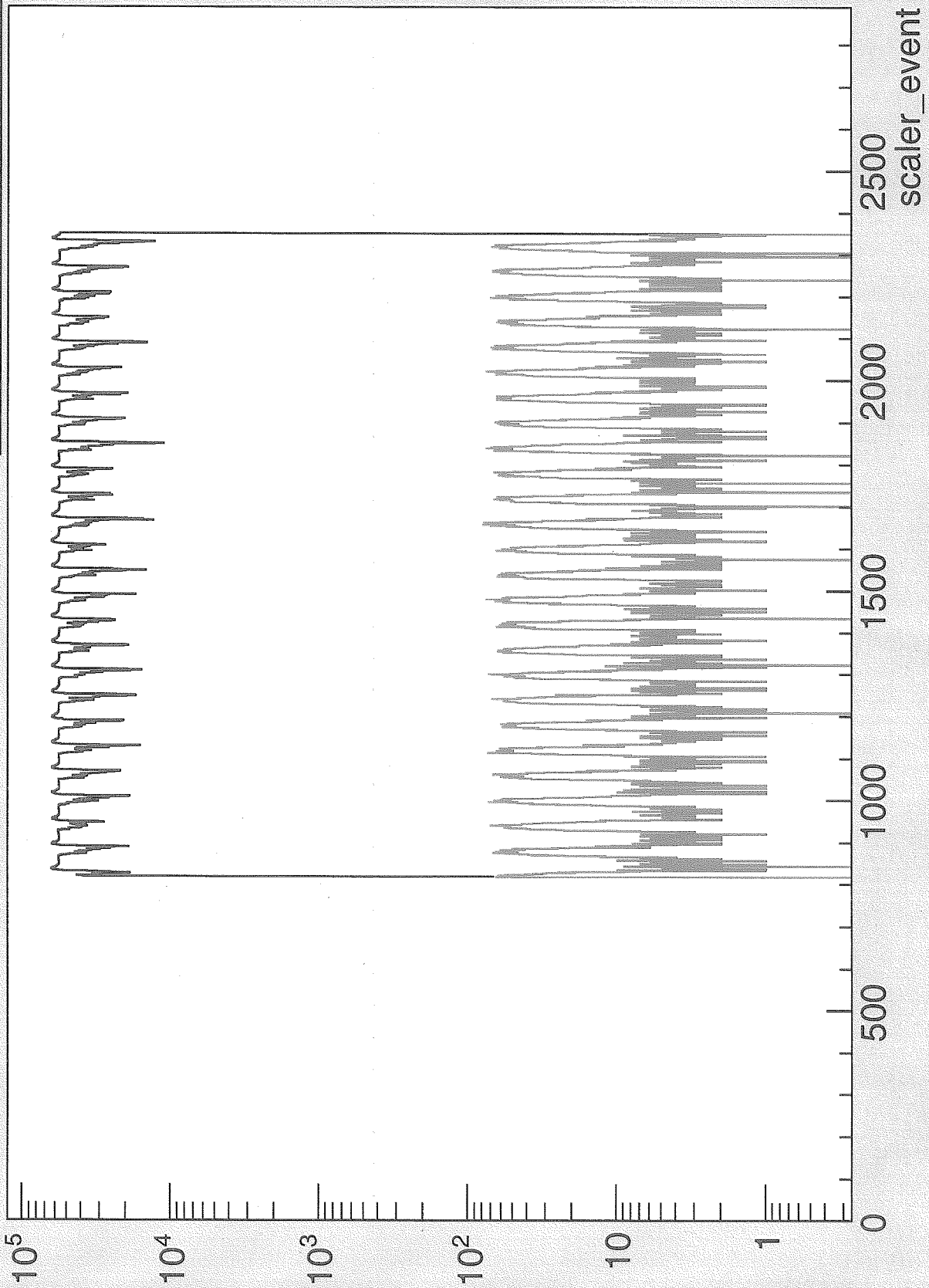
- Analysis/Histograms/Raw_data/VME32_TRL0/scal_input02
- Analysis/Histograms/Raw_data/VME32_TRL0/scal_input03
- Analysis/Histograms/Raw_data/VME32_TRL0/scal_free_trigger07



B
40C

anti0_input01 09:11:41 2012-10-19 Analysis/Histograms/Raw_d

Analysis/Histograms/Raw_data/YME89_ANTI/anti0_input01
Analysis/Histograms/Raw_data/YME89_ANTI/anti0_input04



Exp No. 5433 Primary Beam: 58 Ni Date 19th Oct

MBS/file location: /oct16.12/data/52fe-dec-ar21- File (first) 0262 File (last) 264 Start Stop 8:40 am

Narval/file location: /121016-gadea File (first) 2un21 File (last) 2un21 Start Stop 8:40 am

PURPOSE OF MEASUREMENT: (Centered Isotope) 52fe Cowlex, Au at forward position Calibration run Production run

COMMENTS: shift-in-charge Narval restarted (Stopped at 9am, Care B takes beam)

- 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

PRIMARY BEAM: Element: 58 Ni, SIS energy [MeV/u]: 600, Intensity-SEETRAM: 4.52 x 10^9, PROD. TARGET: TS1ET5HS, TS1ET5VS: number: 36, element: Be, thickness: 4000ng/cm^2

S0 SLITS: beam stop out, TS2DS3HL (left), TS2DS3HR (right), TS2DS3VO (top), TS2DS3VU (bottom), S1 SLITS: beam plug out, TS3DS2HL (left): -20, TS3DS2HR (right): 20

MAGNETS: Field values from Hall probes: TS3MU1: 0.63715, TS3MU2: 0.58044, TS4MU1: 0.4277, HFMSU1: 0.4289, FRS-RATES (counts/spill): 10 kHz: 30k, 10 kHz veto dT: 17k

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

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

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

S2 SLITS: beam plug out, TS4DS1HL (left): -10, TS4DS1HR (right): 70, S3 SLITS: TS4DS3HL (left): -30, TS4DS3HR (right): +10

FRS-RATES (counts/spill): 10 kHz veto dT: 17k, SC21L: 982k, SC21R: 51k, SC41L: 136k, SC41R: 129k

- FRS-TRIGGER: SCI21, SCI41, Other:

SPILL: spill length: 3s, period:

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

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

TA1: Element: Au, Thickness: 400ng/cm^2, Position: Forward

PreSPEC-Rates (Validated/Rejected): AGATA, FRS, Ta-ToF-LYCCA: 127k, HECTOR

Setting Fragment: 52fe

LYCCA: Please check Run-sheet filled, Run-sheet uploaded on elog

FRS setting No.: 5433-05

LN2: Last Filling: 8 am, Status: OK

Exp No.		Primary Beam:		Date	
MBS/file location /d/215ing02/oct16.12 / data		File (first) File (last) → 261		Start Stop 8:15 am	
Naval/file location .. /12/016-gala /		File (first) File (last) run 20		Start Stop 8:15 am	
PURPOSE OF MEASUREMENT: (Centered Isotope) <input type="checkbox"/> Calibration run <input type="checkbox"/> Production run					

COMMENTS: shift-in-charge
 One Agata cluster was not working... Naval Restarted.

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"/> S2-finger <input type="checkbox"/> SCI-21 <input type="checkbox"/> TPC-21 <input type="checkbox"/> TPC-22 <input type="checkbox"/> TPC-41 <input type="checkbox"/> MUSIC-41 <input type="checkbox"/> MUSIC-42 <input type="checkbox"/> TPC-42 <input type="checkbox"/> SCI-41 <input type="checkbox"/> S4-degrader <input type="checkbox"/> LYCCA-Start <input type="checkbox"/> LYCCA-TaStart <input type="checkbox"/> TA1 <input type="checkbox"/> TaDSSD	PRIMARY BEAM Element: SIS energy [MeV/u] Intensity-SEETRAM PROD. TARGET TS1ET5HS, TS1ET5VS: number: element: thickness:	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: HFMSU1: FRS-RATES (counts/spill) 10 kHzrtz : 10 kHzrtz veto dT : SC21L: SC21R: SC41L: SC41R:	PreSPEC-Trig/red.fact. <input type="checkbox"/> Pulsar(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 Please check <input type="checkbox"/> Run-sheet filled <input type="checkbox"/> Run-sheet uploaded on elog LN2 Last Filling : Status :
GATE VALVES Check if gate valves were open throughout this file: <input type="checkbox"/> open at START <input type="checkbox"/> open at STOP	S2 DEGRADER TS3ED7... L (Ladder): D (Disk): VO (Wedge Oben): VU (Wedge Unten): Nb foil: SC21:	S2 SLITS <input type="checkbox"/> 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):	TA1 Element : Thickness : Position:	Setting Fragment FRS setting No.

Exp No. Primary Beam: Date

MBS/file location 1d/vising #2/oct-16-16/date	File (first) #253 File (last)	Start → 6:47 Stop
Narval/file location /12016-gaduel	File (first) #20 File (last)	Start → 17:30 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: 3s
period: 5s

Setting Fragment

52 Fe

FRS setting No.

543305

PRIMARY BEAM

Element: ^{58}Ni
SIS energy [MeV/u]: 600
Intensity-SEETRAM: 459

PROD. TARGET

TS1ET5HS,
TS1ET5VS:
number: 36

element: Be
thickness: $49/\text{cm}^2$

S2 DEGRADER

TS3ED7... $49/\text{cm}^2$
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): +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: 0.63715
TS3MU2: 0.58044
TS4MU1: 0.4276
HFMSU1: 0.4289

FRS-RATES
(counts/spill)

10 kHzrtz: 34k
10 kHzrtz veto dT: 26k

SC21L: 2.0 million
SC21R: 1.3 million
SC41L: 130k
SC41R: 130k

TA1

Element: Au
Thickness: $400\text{ mg}/\text{cm}^2$
Position: FWD

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

- FRS-TRIGGER**
- SCI21
 - SCI41
 - Other:

PreSPEC-Rates
(Validated/Rejected)

AGATA: 3.5k
FRS: 107k
Ta-ToF-LYCCA: 123k
HECTOR:

LYCCA

Please check

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

LN2

Last Filling: 06:28
Status: OK

Exp No. Primary Beam: Date

MBS/file location 1d/nst1502/0ct-16-16/data	File (first) 249 File (last)	Start 8:50 Stop 6:05
Narval/file location - / 121016 - gudea/	File (first) File (last) #20	Start 17:30 Stop

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

COMMENTS: shift-in-charge

FRS/BEAMLINE elements <input checked="" type="checkbox"/> SEETRAM <input type="checkbox"/> SCI-01 <input checked="" type="checkbox"/> FRS-TA0 <input checked="" type="checkbox"/> S1-degrader <input checked="" type="checkbox"/> S2-degrader <input checked="" type="checkbox"/> S2-finger <input checked="" type="checkbox"/> SCI-21 <input checked="" type="checkbox"/> TPC-21 <input checked="" type="checkbox"/> TPC-22 <input checked="" type="checkbox"/> TPC-41 <input checked="" type="checkbox"/> MUSIC-41 <input checked="" type="checkbox"/> MUSIC-42 <input checked="" type="checkbox"/> TPC-42 <input checked="" type="checkbox"/> SCI-41 <input type="checkbox"/> S4-degrader <input checked="" type="checkbox"/> LYCCA-Start <input checked="" type="checkbox"/> LYCCA-TaStart <input checked="" type="checkbox"/> TA1 <input checked="" type="checkbox"/> TaDSSD	PRIMARY BEAM Element: <u>S8U;</u> SIS energy [MeV/u] <u>600</u> Intensity-SEETRAM <u>4.7e9</u>	S0 SLITS <input type="checkbox"/> beam stop out TS2DS3HL (left): <u>0.63725</u> TS2DS3HR (right): <u>0.58044</u> TS2DS3VO (top): <u>0.4276</u> TS2DS3VU (bottom): <u>0.4288</u>	MAGNETS Field values from Hall probes: TS3MU1: TS3MU2: TS4MU1: HFMSU1:	PreSPEC-Trig/red.fact. <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)/.....
	PROD. TARGET TS1ET5HS, TS1ET5VS: number: <u>36</u> element: <u>Re</u> thickness: <u>49/cm²</u>	S1 SLITS <input type="checkbox"/> beam plug out TS3DS2HL (left): <u>-20</u> TS3DS2HR (right): <u>+20</u>	FRS-RATES (counts/spill) 10 kHz : <u>33h</u> 10 kHz veto dT : <u>25h</u>	FRS-TRIGGER <input type="checkbox"/> SCI21 <input type="checkbox"/> SCI41 <input type="checkbox"/> Other:
GATE VALVES Check if gate valves were open throughout this file: <input type="checkbox"/> open at START <input type="checkbox"/> open at STOP	S2 DEGRADER TS3ED7... <u>49/cm²</u> L (Ladder): D (Disk): VO (Wedge Oben): VU (Wedge Unten): Nb foil: SC21:	S2 SLITS <input type="checkbox"/> beam plug out TS4DS1HL (left): <u>-10</u> TS4DS1HR (right): <u>+70</u>	FRS-RATES (counts/spill) 10 kHz : <u>33h</u> 10 kHz veto dT : <u>25h</u> SC21L: <u>2.0 million</u> SC21R: <u>1.0 million</u> SC41L: <u>130k</u> SC41R: <u>130k</u>	PreSPEC-Rates (Validated/Rejected) AGATA : <u>3.1k</u> FRS : <u>102k</u> Ta-ToF-LYCCA : <u>115k</u> HECTOR :
SPILL spill length: <u>35</u> period: <u>55</u>	S3 SLITS TS4DS3HL (left): <u>-30</u> TS4DS3HR (right): <u>+10</u>	S4 SLITS HFSDS3H (left): <u>-20</u> HFSDS3H (right): <u>+20</u> Pb Brick (top): Pb Brick (bottom):	FRS-RATES (counts/spill) 10 kHz : <u>33h</u> 10 kHz veto dT : <u>25h</u> SC21L: <u>2.0 million</u> SC21R: <u>1.0 million</u> SC41L: <u>130k</u> SC41R: <u>130k</u>	PreSPEC-Rates (Validated/Rejected) AGATA : <u>3.1k</u> FRS : <u>102k</u> Ta-ToF-LYCCA : <u>115k</u> HECTOR :
Setting Fragment <u>S2Fe</u>	S4 DEGRADER HFSED3... O (Wedge Oben): U (Wedge Unten):	S4 SLITS HFSDS3H (left): <u>-20</u> HFSDS3H (right): <u>+20</u> Pb Brick (top): Pb Brick (bottom):	FRS-RATES (counts/spill) 10 kHz : <u>33h</u> 10 kHz veto dT : <u>25h</u> SC21L: <u>2.0 million</u> SC21R: <u>1.0 million</u> SC41L: <u>130k</u> SC41R: <u>130k</u>	PreSPEC-Rates (Validated/Rejected) AGATA : <u>3.1k</u> FRS : <u>102k</u> Ta-ToF-LYCCA : <u>115k</u> HECTOR :
FRS setting No. <u>5433.05</u>			TA1 Element : <u>Ac</u> Thickness : <u>400ms/cm²</u> Position: <u>Fwb</u>	LYCCA Please check <input type="checkbox"/> Run-sheet filled <input type="checkbox"/> Run-sheet uploaded on elog
				LN2 Last Filling : <u>00:29</u> Status : <u>ok</u>

Exp No. Primary Beam: Date

MBS/file location: id/nisimg/oct.16.16/date File (first): #245 Start: 4:52
 File (last): File (last): Stop: 5:07

Narval/file location: -112016-gaden/ File (first): #20 Start: 17:30
 File (last): 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

PRIMARY BEAM
 Element: S₈N₁
 SIS energy [MeV/u]: 600
 Intensity-SEETRAM: 4.4E9

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

S2 DEGRADER
 TS3ED7... 49/cm²
 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: 0.63725
 TS3MU2: 0.58044
 TS4MU1: 0.4276
 HFSMU1: 0.4289

FRS-RATES
 (counts/spill)
 10 kHz: 33k

10 kHz veto dT: 25h
 SC21L: 2.0 million
 SC21R: 1.2 million
 SC41L: 140k
 SC41R: 140k

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

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

- FRS-TRIGGER**
- SCI21
 - SCI41
 - Other:

PreSPEC-Rates
 (Validated/Rejected)
 AGATA: 3.9k

FRS: 113k

Ta-ToF-LYCCA: 131k

HECTOR:

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

LN2
 Last Filling: GO: 29

Status: OK

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

SPILL
 spill length: 35
 period: 55

Setting Fragment
S₂ Fe

FRS setting No.
5433.05

Exp No. Primary Beam: Date

MBS/file location: 1d/nis14902/oct-16-16/dec
 File (first) # 241
 File (last)
 Start 3:52
 Stop 4:00

Narval/file location: --1121016-gadec/1
 File (first)
 File (last) # 20
 Start 17:30
 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

PRIMARY BEAM

Element: ^{58}Ni

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 4.3E9

PROD. TARGET

TS1ET5HS,
TS1ET5VS:

number: 36

element: Re

thickness: 4.8/cm²

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: 0.637259

TS3MU2: 0.58034

TS4MU1: 0.4276

HFSMU1: 0.4289

FRS-RATES
(counts/spill)

10 kHz : 34k

10 kHz veto dT : 26k

SC21L: 2.0 million

SC21R: 1.0 million

SC41L: 130k

SC41R: 130k

TA1

Element: Au

Thickness: 400 mg/cm²

Position: FWD

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

- FRS-TRIGGER**
- SCI21
 - SCI41
 - Other:

PreSPEC-Rates
(Validated/Rejected)

AGATA : 3.4k

FRS : 105k

Ta-ToF-LYCCA : 120k

HECTOR :

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

LN2

Last Filling : 30:29

Status : OK

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

^{52}Fe

FRS setting No.

3433.05

S2 DEGRADER

TS3ED7... 4.8/cm²

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

Nb foil:

SC21:

S4 DEGRADER

HFSED3...

O (Wedge Oben):

U (Wedge Unten):

Exp No. Primary Beam: Date

MBS/file location: /d/rising 02/0ct-16-12/ data
 File (first): S2 Fc-dec-ar20
 File (last): -0237
 Start: 2:46
 Stop: 3:03

Narval/file location: .. /121016-gadeca/
 File (first): #20
 File (last): #20
 Start: 17:30
 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: 3 s
 period: 5 s

Setting Fragment
 S2 Fc

FRS setting No.
 S43305

PRIMARY BEAM
 Element: SW
 SIS energy [MeV/u]: 600
 Intensity-SEETRAM: 3.3E9

PROD. TARGET
 TS1ET5HS,
 TS1ET5VS:
 number: 36

element: Be
 thickness: 4 g/cm²

S2 DEGRADER
 TS3ED7... 4 g/cm²
 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: 0.63725
 TS3MU2: 0.58044
 TS4MU1: 0.4776
 HFMSU1: 0.4289

FRS-RATES
 (counts/spill)
 10 kHzrtz : 36h

10 kHzrtz veto dT : 29h
 SC21L: 1.9 million
 SC21R: 1.6 million

SC41L: 100h
 SC41R: 100h

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

- 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 : 2.4h
 FRS : 86h
 Ta-ToF-LYCCA : 96h
 HECTOR :

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

LN2
 Last Filling : 00-29
 Status : OK

Exp No. Primary Beam: Date

MBS/file location 1d/rising 22/0ct 16.17/0ct	File (first) S2Fe-dec-amo File (last) -0235	Start 2:11 Stop 2:28
Narval/file location ..112016_gadual	File (first) 20 File (last)	Start 17:30 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: 35

period: 55

Setting Fragment

S2Fe

FRS setting No.

S433.05

PRIMARY BEAM

Element: S2Fe

SIS energy [MeV/u]: 600

Intensity-SEETRAM: 3.5F9

PROD. TARGET

TS1ET5HS,
TS1ET5VS:

number: 36

element: Be

thickness: 49/cm²

S2 DEGRADER

TS3ED7... 49/cm²

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: 0.63715

TS3MU2: 0.58044

TS4MU1: 0.4276

HFSMU1: 0.4289

FRS-RATES
(counts/spill)

10 kHzrtz : 34k

10 kHzrtz veto dT : 27k

SC21L: 19 million

SC21R: 1.5 million

SC41L: 110 k

SC41R: 110k

TA1

Element: Au

Thickness: 400 mg/cm²

Position: Fwd

- 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 : 2.8k

FRS : 90k

Ta-ToF-LYCCA : 90k

HECTOR :

LYCCA

Please check

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

LN2

Last Filling : 0029

Status : OK

Exp No. Primary Beam: Date

MBS/file location /d/risingør/02/oct-16-17/det File (first) 231 Start 1:04
 File (last) S2Fe-dec-20-0231 Stop 1:26

Narval/file location 00/121016-gadec File (first) #20 Start 17:30
 File (last) #20 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: 3s
 period: 5s

Setting Fragment
 S2 Fe

FRS setting No.
 5433.05

PRIMARY BEAM
 Element: S2Fe
 SIS energy [MeV/u]: 600
 Intensity-SEETRAM: 4.159

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

S2 DEGRADER
 TS3ED7... 49/cm²
 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): +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: 0.63725
 TS3MU2: 0.58044
 TS4MU1: 0.4276
 HFSMU1: 0.4289

FRS-RATES
 (counts/spill)
 10 kHzrtz : 36k
 10 kHzrtz veto dT : 29k

SC21L: 1.9 million
 SC21R: 1.4 million
 SC41L: 120k
 SC41R: 120k

TA1
 Element: Au
 Thickness: 400ms/cm²
 Position: FWD

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

- FRS-TRIGGER**
- SCI21
 - SCI41
 - Other:

PreSPEC-Rates
 (Validated/Rejected)
 AGATA: 3.1k
 FRS: 95k

Ta-ToF-LYCCA: 110k

HECTOR:

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

LN2
 Last Filling: 00:29

Status: ok

Exp No. Primary Beam: Date

MBS/file location /d/rising02/oct.16.12/data File (first) 224 Start 00:30
 File (last) File (last) Stop 00:45

Narval/file location .../121016_gadea/ File (first) #20 Start 17:30
 File (last) 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

PRIMARY BEAM
 Element: 58Ni
 SIS energy [MeV/u]: 600
 Intensity-SEETRAM: 4.1E9

PROD. TARGET
 TS1ET5HS,
 TS1ET5VS:
 number: 36
 element: Be
 thickness: 45/cm²

S2 DEGRADER
 TS3ED7... 47/cm²
 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: 0.63715
 TS3MU2: 0.58044
 TS4MU1: 0.4276
 HFSMU1: 0.4289

FRS-RATES
 (counts/spill)
 10 kHzrtz : 36K
 10 kHzrtz veto dT : 28K

SC21L: 1.9 million
 SC21R: 1.4 million
 SC41L: 120 K
 SC41R: 120 K

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

- 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 : 2.8K

FRS : 98K

Ta-ToF-LYCCA : 113 K

HECTOR :

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

LN2
 Last Filling : 00:29

Status : OK

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
52Fe

FRS setting No.
S433_05

Exp No. Primary Beam: Date

MBS/file location: 14/visingfil... 52Fe-dec...
 File (first): File (last): 204
 Start: 17:30
 Stop:

Narval/file location: 1421016-gadac...
 File (first): File (last): Vuu 20
 Start:
 Stop:

PURPOSE OF MEASUREMENT: (Centered Isotope) Calibration run Production run
⁵²Fe 12+ complex

COMMENTS: Starts after beam stop ~ 17:30 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: 35
 period: 58

Setting Fragment
 52Fe

FRS setting No.
 3433-05

PRIMARY BEAM
 Element: 58Ni
 SIS energy [MeV/u]: 600
 Intensity-SEETRAM: 4.26 10³

PROD. TARGET
 TS1ET5HS,
 TS1ET5VS:
 number: 36

element: Be
 thickness: 48/μm²

S2 DEGRADER
 TS3ED7... 48/μm²
 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):
 TS4DS3HR (right):

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

MAGNETS
 Field values from Hall probes:
 TS3MU1: 0.63715
 TS3MU2: 0.58034
 TS4MU1: 0.4276
 HFMSU1: 0.4288

FRS-RATES
 (counts/spill)
 10 kHzrtz: 37

10 kHzrtz veto dT: 28

SC21L: 810

SC21R: 819

SC41L: 177

SC41R: 122

TA1
 Element: Au

Thickness: 400 mg/cm²

Position: FWD

- 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: 4.7

FRS: 105

Ta-ToF-LYCCA: 138

HECTOR:

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

LN2
 Last Filling:

Status:

Exp No. Primary Beam: Date

MBS/file location: *id/ksangdz/... 52Fe Dec arc19* File (first): *203* Start: *14:51*
 File (last): *203* Stop: *19:02*

Narval/file location: *121016_gatedal* File (first): File (last): *run19* Start: *10:49*
 Stop: *15:02*

PURPOSE OF MEASUREMENT: (Centered Isotope) Calibration run Production run
52Fe 12+ cooler

COMMENTS: *Changing TPC voltages to check problems.* 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

PRIMARY BEAM
 Element: *58 Ni*
 SIS energy [MeV/u]: *600*
 Intensity-SEETRAM: *4.82 x 10^9*

PROD. TARGET
 TS1ET5HS,
 TS1ET5VS:
 number: *36*

element: *Be*
 thickness: *4g/cm^2*

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): *-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: *0.63715*
 TS3MU2: *0.58034*
 TS4MU1: *0.4276*
 HFMSU1: *0.4289*

FRS-RATES
 (counts/spill)
 10 kHzrtz: *29k*

10 kHzrtz veto dT: *21k*

SC21L: *839k*

SC21R: *893k*

SC41L: *154k*

SC41R: *146k*

TA1
 Element: *Au*

Thickness: *400mg/cm^2*

Position: *FWD*

- 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: *4.4k*

FRS: *103k*

Ta-ToF-LYCCA: *139k*

HECTOR:

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

LN2
 Last Filling: *12:29*

Status: *OK*

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

SPILL
 spill length: *35*
 period: *55*

Setting Fragment
52Fe

FRS setting No.
5433-05

S2 DEGRADER
 TS3ED7... *4g/cm^2*
 L (Ladder):
 D (Disk):
 VO (Wedge Oben):
 VU (Wedge Unten):

Nb foil:
 SC21:

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

Exp No. Primary Beam: Date

MBS/file location: 1d/rvsmg/2/oct16_12/dato File (first): 52Fe-dec-arc184 File (last): 202 Start: 10:42 Stop: 14:57

Narval/file location: ..1/12/16_gadca/ File (first): File (last): 10.11.19 Start: 0:49 Stop: still running

PURPOSE OF MEASUREMENT: (Centered Isotope) Calibration run Production run
 52Fe 12+ Coulter

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

PRIMARY BEAM
 Element: 58Ni
 SIS energy [MeV/u]: 600
 Intensity-SEETRAM: 4.82x10^9

PROD. TARGET
 TS1ET5HS,
 TS1ET5VS:
 number: 36

element: Be
 thickness: 4g/cm^2

S0 SLITS
 beam stop out
 TS2DS3HL (left):
 TS2DS3HR (right):
 TS2DS3V0 (top):
 TS2DS3VU (bottom):

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

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: 0.63705
 TS3MU2: 0.58024
 TS4MU1: 0.4276
 HFMSU1: 0.4289

FRS-RATES
 (counts/spill)
 10 kHzrtz : 31k

10 kHzrtz veto dT : 23k

SC21L: 850k
 SC21R: 900k
 SC41L: 150k
 SC41R: 143k

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

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

- FRS-TRIGGER**
- SCI21
 - SCI41
 - Other:

PreSPEC-Rates
 (Validated/Rejected)
 AGATA : 3.2k

FRS : 109k

Ta-ToF-LYCCA : 129k

HECTOR :

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

LN2
 Last Filling : 12:29

Status : OK!

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

SPILL
 spill length: 35
 period: 55

Setting Fragment
 52Fe

FRS setting No.
 5433-05

S2 DEGRADER
 TS3ED7... 4g/cm^2
 L (Ladder):
 D (Disk):
 VO (Wedge Oben):
 VU (Wedge Unten):
 Nb foil:
 SC21:

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

Exp No.		Primary Beam: ^{58}Ni		Date 18.10.2012.	
MBS/file location <i>id/risingdz/oct16.12/data</i>	File (first)	File (last)	Start	Stop	
		<i>$^{52}\text{Fe-dec-ar-180}$</i>	<i>9:50</i>	<i>10:42</i>	
	File (last)				
Narval/file location <i>18121016_gadea/</i>	File (first)	File (last)	Start	Stop	
		<i>ron18</i>	<i>9:50</i>		
PURPOSE OF MEASUREMENT: (Centered Isotope) <input type="checkbox"/> Calibration run <input checked="" type="checkbox"/> Production run					
<i>$^{52}\text{Fe } 12^+ \text{ Coulex.}$</i>					

COMMENTS: shift-in-charge

FRS/BEAMLINE elements <input checked="" type="checkbox"/> SEETRAM <input type="checkbox"/> SCI-01 <input checked="" type="checkbox"/> FRS-TA0 <input checked="" type="checkbox"/> S1-degrader <input checked="" type="checkbox"/> S2-degrader <input checked="" type="checkbox"/> S2-finger <input checked="" type="checkbox"/> SCI-21 <input checked="" type="checkbox"/> TPC-21 <input checked="" type="checkbox"/> TPC-22 <input checked="" type="checkbox"/> TPC-41 <input checked="" type="checkbox"/> MUSIC-41 <input checked="" type="checkbox"/> MUSIC-42 <input checked="" type="checkbox"/> TPC-42 <input checked="" type="checkbox"/> SCI-41 <input type="checkbox"/> S4-degrader <input checked="" type="checkbox"/> LYCCA-Start <input checked="" type="checkbox"/> LYCCA-TaStart <input checked="" type="checkbox"/> TA1 <input checked="" type="checkbox"/> TaDSSD	PRIMARY BEAM Element: <i>^{58}Ni</i> SIS energy [MeV/u]: <i>600</i> Intensity-SEETRAM: <i>3.2×10^9</i> PROD. TARGET TS1ET5HS, TS1ET5VS: number: <i>36</i> element: <i>Be</i> thickness: <i>$4 \mu\text{g}/\text{cm}^2$</i>	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): <i>+35</i> TS3DS2HR (right): <i>+35</i> S2 SLITS <input type="checkbox"/> beam plug out TS4DS1HL (left): <i>-10</i> TS4DS1HR (right): <i>+70</i> S3 SLITS TS4DS3HL (left): <i>-30</i> TS4DS3HR (right): <i>+10</i> S4 SLITS HFSDS3H (left): <i>-20</i> HFSDS3H (right): <i>+20</i> Pb Brick (top): Pb Brick (bottom):	MAGNETS Field values from Hall probes: TS3MU1: <i>0.63705</i> TS3MU2: <i>0.58024</i> TS4MU1: <i>0.4276</i> HFSMU1: <i>0.4289</i> FRS-RATES (counts/spill) 10 kHz: <i>24352</i> 10 kHz veto dT: <i>17869</i> SC21L: <i>400k?</i> SC21R: <i>400k?</i> SC41L: <i>108k</i> SC41R: <i>104k</i> TA1 Element: <i>Ar</i> Thickness: <i>$400 \text{ mg}/\text{cm}^2$</i> Position: <i>FWD</i>	PreSPEC-Trig/red.fact. <input type="checkbox"/> Pulsar(1) /..... <input type="checkbox"/> LYCCA cal(2)/..... <input checked="" 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 checked="" type="checkbox"/> p+HEC+Lyc(8)/..... <input checked="" type="checkbox"/> p+Agata+Lyc(9)/... <input checked="" type="checkbox"/> Part-SC41(10)/..... <input type="checkbox"/> Spill-on(12)/..... <input type="checkbox"/> Spill-off(13)/..... FRS-TRIGGER <input type="checkbox"/> SCI21 <input checked="" type="checkbox"/> SCI41 <input type="checkbox"/> Other: PreSPEC-Rates (Validated/Rejected) AGATA: <i>3.3k</i> FRS: <i>100k</i> Ta-ToF-LYCCA: <i>170k</i> HECTOR: LYCCA Please check <input type="checkbox"/> Run-sheet filled <input type="checkbox"/> Run-sheet uploaded on elog LN2 Last Filling: <i>6:10</i> Status: <i>OK</i>	
GATE VALVES Check if gate valves were open throughout this file: <input type="checkbox"/> open at START <input type="checkbox"/> open at STOP	S2 DEGRADER TS3ED7... <i>$4 \mu\text{g}/\text{cm}^2$</i> L (Ladder): D (Disk): VO (Wedge Oben): VU (Wedge Unten): Nb foil: SC21:	S4 DEGRADER HFSED3... O (Wedge Oben): U (Wedge Unten):	GATE VALVES spill length: <i>35</i> period: <i>55</i>	Setting Fragment <i>^{52}Fe</i>	FRS setting No. <i>5433-05</i>

Exp No.		Primary Beam:		Date 18.10.2012
MBS/file location /rda62/oct16_12/data/58Ni.doc	File (first) File (last)	- 0180 Incd.	Start Stop	10:20
Narval/file location	File (first) File (last)	run 18	Start Stop	

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

COMMENTS: shift-in-charge
CHANGE SUTS AT S1 BACK TO -20 +20, FILES NOT CLOSED

FRS/BEAMLINE elements <input checked="" type="checkbox"/> SEETRAM <input type="checkbox"/> SCI-01 <input checked="" type="checkbox"/> FRS-TA0 <input checked="" type="checkbox"/> S1-degrader <input checked="" type="checkbox"/> S2-degrader <input checked="" type="checkbox"/> S2-finger <input checked="" type="checkbox"/> SCI-21 <input checked="" type="checkbox"/> TPC-21 <input checked="" type="checkbox"/> TPC-22 <input checked="" type="checkbox"/> TPC-41 <input checked="" type="checkbox"/> MUSIC-41 <input checked="" type="checkbox"/> MUSIC-42 <input checked="" type="checkbox"/> TPC-42 <input checked="" type="checkbox"/> SCI-41 <input type="checkbox"/> S4-degrader <input checked="" type="checkbox"/> LYCCA-Start <input checked="" type="checkbox"/> LYCCA-TaStart <input checked="" type="checkbox"/> TA1 <input checked="" type="checkbox"/> TaDSSD	PRIMARY BEAM Element: 58 Ni SIS energy [MeV/u] 600 Intensity-SEETRAM 3.2x10 ⁹	S0 SLITS <input type="checkbox"/> beam stop out TS2DS3HL (left): TS2DS3HR (right): TS2DS3VO (top): TS2DS3VU (bottom):	MAGNETS Field values from Hall probes: TS3MU1: 0.63705 TS3MU2: 0.58024 TS4MU1: 0.4276 HFMSU1: 0.4289	PreSPEC-Trig/red.fact. <input type="checkbox"/> Pulser(1)/..... <input type="checkbox"/> LYCCA cal(2)/..... <input checked="" 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 checked="" type="checkbox"/> p+HEC+Lyc(8)/..... <input checked="" type="checkbox"/> p+Agata+Lyc(9)/... <input checked="" type="checkbox"/> Part-SC41(10)/..... <input type="checkbox"/> Spill-on(12)/..... <input type="checkbox"/> Spill-off(13)/.....
	PROD. TARGET TS1ET5HS, TS1ET5VS: number: 36 element: Be thickness: 4 g/cm ²	S1 SLITS <input type="checkbox"/> beam plug out TS3DS2HL (left): -20 TS3DS2HR (right): +20	FRS-RATES (counts/spill) 10 kHzrtz : 50.1 10 kHzrtz veto dT : 43.1	FRS-TRIGGER <input type="checkbox"/> SCI21 <input checked="" type="checkbox"/> SCI41 <input type="checkbox"/> Other:
GATE VALVES Check if gate valves were open throughout this file: <input type="checkbox"/> open at START <input type="checkbox"/> open at STOP	S2 DEGRADER TS3ED7... 4g/cm ² L (Ladder): D (Disk): VO (Wedge Oben): VU (Wedge Unten): Nb foil: SC21:	S2 SLITS <input type="checkbox"/> beam plug out TS4DS1HL (left): -10 TS4DS1HR (right): +70	PreSPEC-Rates (Validated/Rejected) AGATA : 2.7K FRS : 87K Ta-ToF-LYCCA : 101K HECTOR :	
SPILL spill length: 35 period: 55	S3 SLITS TS4DS3HL (left): -30 TS4DS3HR (right): +10	SC21L: 712K? SC21R: 406K? SC41L: 109K SC41R: 105K	LYCCA Please check <input type="checkbox"/> Run-sheet filled <input type="checkbox"/> Run-sheet uploaded on elog	
Setting Fragment 62 Fe	S4 DEGRADER HFSED3... O (Wedge Oben): U (Wedge Unten):	S4 SLITS HFSDS3H (left): -20 HFSDS3H (right): +20 Pb Brick (top): Pb Brick (bottom):	TA1 Element : Au Thickness : 400mg/cm ² Position: FWD	
FRS setting No. 5433-05			LN2 Last Filling : 6:10 Status : OK	

Exp No. *S433* Primary Beam: *SPN* Date *18.10.2012*

MBS/file location *id/visingphi* File (first) *52Fe_dec_05_170170* Start *7:28*
00116-12/data File (last) *0179* Stop *7:38*

Narval/file location *.../121016_gadea/2Cmnet* File (first) File (last) *run #17* Start *7:27*
 Stop *7:27*

PURPOSE OF MEASUREMENT: (Centered Isotope) Calibration run Production run
52Fe 12+ Coulter

COMMENTS: *shift-in-charge E. Farnes et al.*

- 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
52Fe

FRS setting No.

PRIMARY BEAM
 Element: *SPN*
 SIS energy [MeV/u] *600*
 Intensity-SEETRAM *3.0 x 10^9*

PROD. TARGET
 TS1ET5HS,
 TS1ET5VS:
 number: *36*

element: *Be*
 thickness: *48/um^2*

S2 DEGRADER
 TS3ED7... *48*
 L (Ladder):
 D (Disk):
 VO (Wedge Oben):
 VU (Wedge Unten):
 Nb foil:
 SC21:

S4 DEGRADER
 HFSED3... *wave*
 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: *0.63715*
 TS3MU2: *0.58034*
 TS4MU1: *0.4276*
 HFMSU1: *0.4288*

FRS-RATES
 (counts/spill)
 10 kHzrtz : *272*

10 kHzrtz veto dT : *215*
 SC21L: *754*

SC21R: *525*
 SC41L: *100*

SC41R: *100*

TA1
 Element : *Au*
 Thickness : *400 um/um^2*
 Position: *FWD*

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

- FRS-TRIGGER**
- SCI21
 - SCI41
 - Other:

PreSPEC-Rates
 (Validated/Rejected)
 AGATA : *128*
64/1400
 FRS : *520/110*
 Ta-ToF-LYCCA : *200*
 HECTOR :

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

LN2
 Last Filling : *18/10 06:10*
 Status : *OK*

Exp No. S433 Primary Beam: 58Ni Date 18.10.2012

MBS/file location	File (first) <u>52Fe_dec_05178160</u> File (last)	Start <u>4.57</u> Stop <u>5.11</u>
Narval/file location <u>.../121016_padea/2Curnist</u>	File (first) File (last) <u>Num #17</u>	Start <u>22.58</u> Stop

PURPOSE OF MEASUREMENT: (Centered Isotope) Calibration run Production run
52Fe 12+ Corlex

COMMENTS: shift-in-charge E. Farnes et al.

- 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
52Fe

FRS setting No.

PRIMARY BEAM
 Element: 58Ni
 SIS energy [MeV/u] 600
 Intensity-SEETRAM 3.5 x 10⁹

PROD. TARGET
 TS1ET5HS,
 TS1ET5VS:
 number: 30

element: Be
 thickness: 4 μ/cm²

S2 DEGRADER
 TS3ED7... 4f
 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): +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: 0.63705
 TS3MU2: 0.58034
 TS4MU1: 0.4276
 HFMSU1: 0.4289

FRS-RATES
 (counts/spill)
 10 kHzrtz : 276

10 kHzrtz veto dT : 209

SC21L: 732

SC21R: 424

SC41L: 102

SC41R: 104

TA1
 Element : Au

Thickness : 400 μg/cm²

Position: FWD

- 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 : 12B
50/1200
 FRS : 500/100
 Ta-ToF-LYCCA : 200
 HECTOR :

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

LN2
 Last Filling : 18/10 00:10
 Status : OK

Exp No. S433 Primary Beam: ^{52}Fe Date 18.10.2012

MBS/file location	File (first) <u>$^{52}\text{Fe-dec-ar170149}$</u> File (last)	Start <u>2:15</u> Stop <u>2:28</u>
Narval/file location	File (first) File (last) <u>run #17</u>	Start <u>11:03</u> Stop

PURPOSE OF MEASUREMENT: (Centered Isotope) Calibration run Production run
 ^{52}Fe $^{12+}$ Coulter

COMMENTS: shift-in-charge E. FARNEA et al.

- 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.

PRIMARY BEAM
 Element: ^{52}Fe
 SIS energy [MeV/u] 600
 Intensity-SEETRAM 3.45×10^9
PROD. TARGET
 TS1ET5HS,
 TS1ET5VS:
 number: 36
 element: Be
 thickness: 4g/cm^2

S2 DEGRADER
 TS3ED7... 48/1000
 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: 0.63715
 TS3MU2: 0.58024
 TS4MU1: 0.4277
 HFMSU1: 0.4289

FRS-RATES
 (counts/spill)
 10 kHzrtz : 230
 10 kHzrtz veto dT : 168

SC21L: 720
 SC21R: 465
 SC41L: 1070
 SC41R: 105

TA1
 Element: Au
 Thickness: 400ng/cm^2
 Position: FWD

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

- FRS-TRIGGER**
- SCI21
 - SCI41
 - Other:

PreSPEC-Rates
 (Validated/Rejected)
 AGATA : 128
80/1400

FRS:
530/106

Ta-ToF-LYCCA :
382

HECTOR :

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

LN2
 Last Filling : 18/10 00:10

Status : OK

Exp No.		Primary Beam: ^{58}Ni	Date: 17.10.2017
MBS/file location <i>sd02/od16_17/data</i>	File (first) <i>527e_dec_ar190134</i>	File (last)	Start Stop <i>23:12</i>
Narval/file location	File (first)	File (last) <i>run#17</i>	Start Stop

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

527e 12⁺ cooler

COMMENTS: *Agata run 16 is a test after MBS crash and empty. Missing under score in the filename (MBS)*

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

PRIMARY BEAM

Element: ^{58}Ni

SIS energy [MeV/u]: *600*

Intensity-SEETRAM: *3.5 * 10¹⁹*

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: *36*

element: *Be*

thickness: *48/um²*

S0 SLITS *epu*

beam stop out

TS2DS3HL (left):

TS2DS3HR (right):

TS2DS3VO (top):

TS2DS3VU (bottom):

S1 SLITS

beam plug out

TS3DS2HL (left): *-20*

TS3DS2HR (right): *120*

MAGNETS

Field values from Hall probes:

TS3MU1: *0,63695*

TS3MU2: *0,58014*

TS4MU1: *0,4276*

HFSMU1: *0,4289*

- 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)/.....

GATE VALVES

Check if gate valves were open throughout this file:

open at START

open at STOP

S2 DEGRADER

TS3ED7... *48/um²*

L (Ladder):

D (Disk):

VO (Wedge Oben):

VU (Wedge Unten):

Nb foil:

SC21:

S2 SLITS

beam plug out

TS4DS1HL (left): *-10*

TS4DS1HR (right): *170*

S3 SLITS

TS4DS3HL (left): *-30*

TS4DS3HR (right): *+10*

S4 SLITS

HFSDS3H (left): *-20*

HFSDS3H (right): *420*

Pb Brick (top):

Pb Brick (bottom):

FRS-RATES (counts/spill)

10 kHzrtz : *2174*

10 kHzrtz veto dT : *15,44*

SC21L: *1,9 M*

SC21R: *1,5 M*

SC41L: *1084*

SC41R: *1044*

- FRS-TRIGGER**
- SCI21
 - SCI41
 - Other:

PreSPEC-Rates (Validated/Rejected)

AGATA : *120*

1166/48

FRS : *884/764*

Ta-ToF-LYCCA : *1014*

HECTOR :

SPILL

spill length: *35*

period: *55*

Setting Fragment

527e

FRS setting No.

5433.05

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

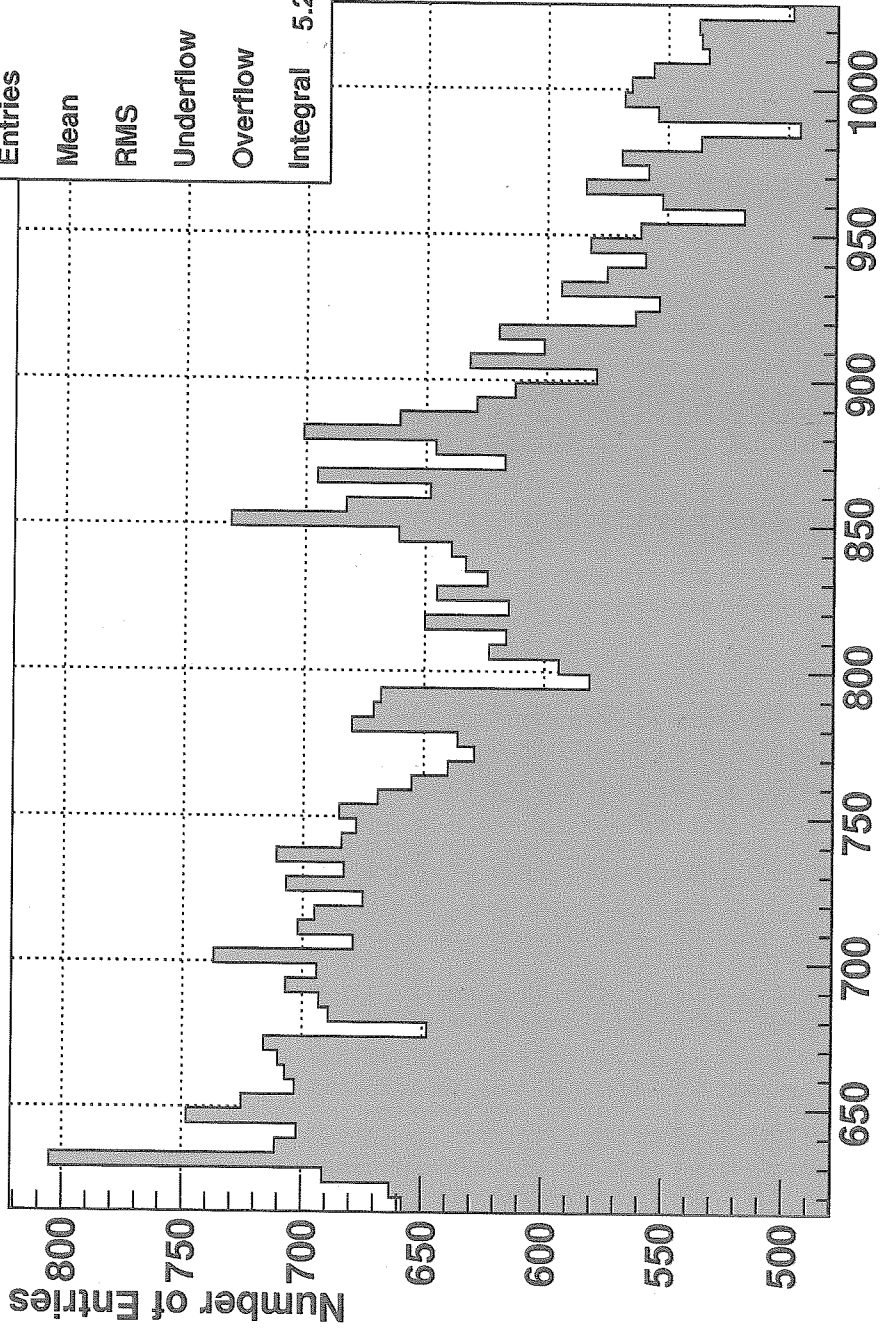
LN2

Last Filling : *18:76*

Status : *o.k.*

ProjectionX of biny=92

hCoreEnergyDPvsBeta_px	
Entries	52937
Mean	811.3
RMS	118.3
Underflow	0
Overflow	0
Integral	5.294e+04



$^{52}\text{Fe } 0^+ \rightarrow 2^+$ COULEX PEAK
10 hours run TARGET IN AGATA
CENTRE. (23.5cm)
NAMITA & EDANA ANALYSIS

ProjectionX of biny=93

hCoreEnergyDPvsBeta_px	20688
Entries	20688
Mean	841.9
RMS	46.18
Underflow	0
Overflow	0
Integral	2.069e+04

