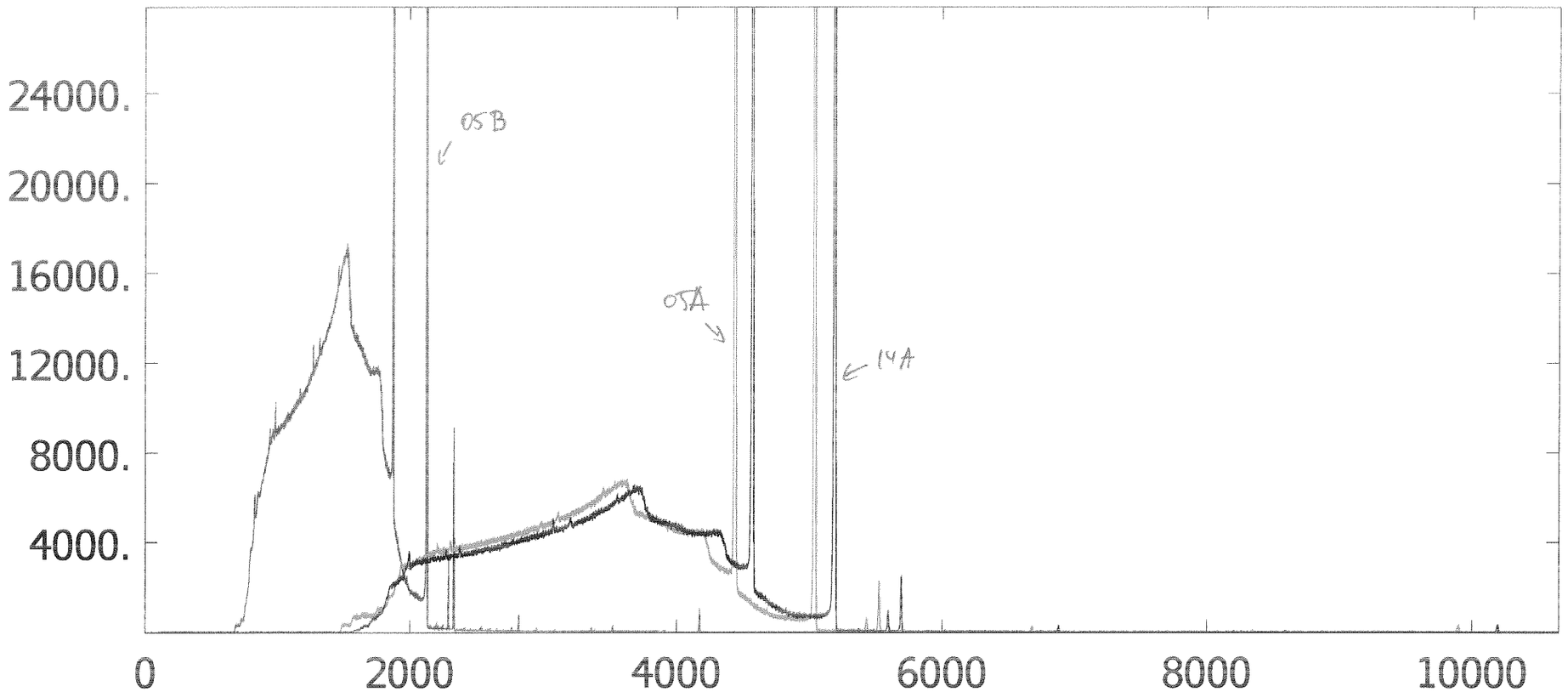
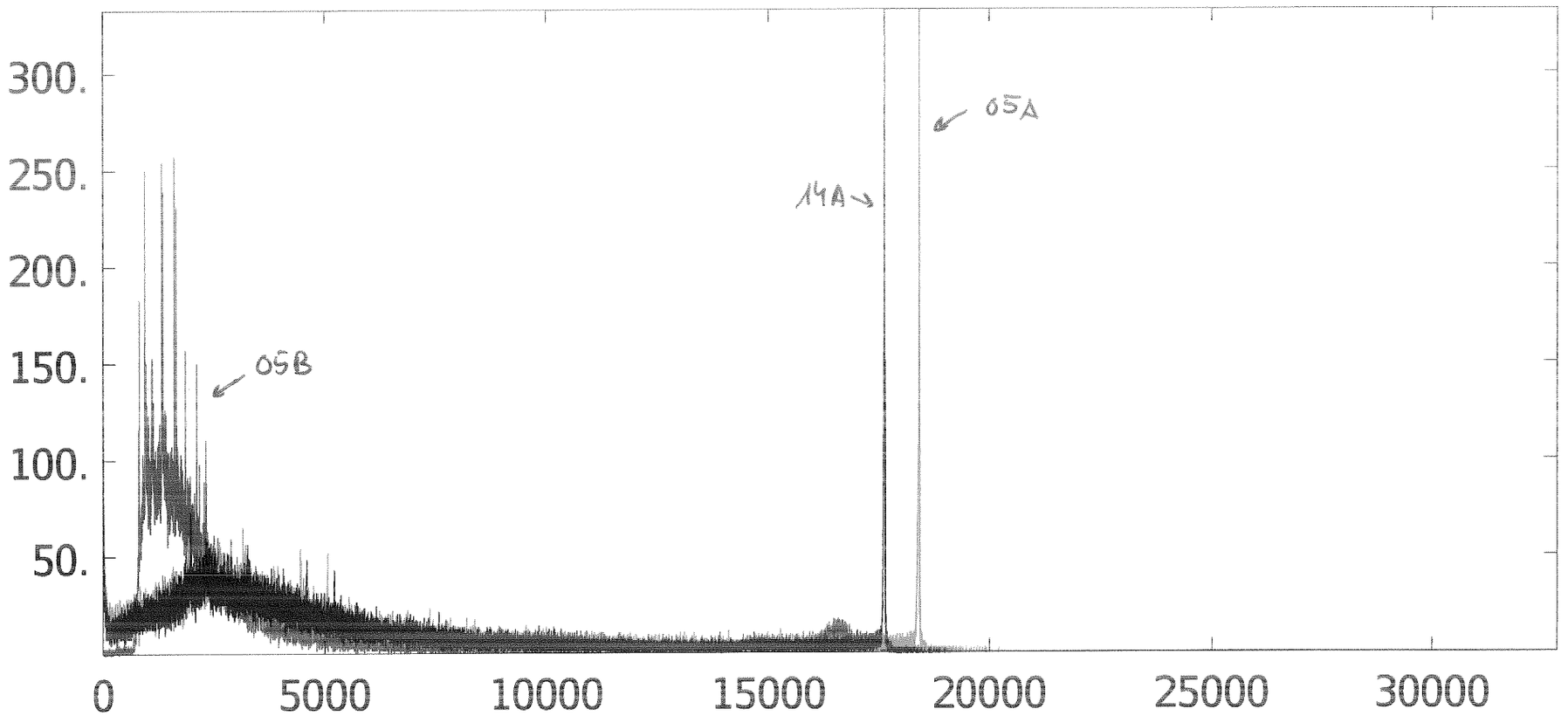
AGATA PRODUCER level



NOTE: ATC 5 CAPSULE "B" SHOWS A LOWER GAIN IN THE HIGH GAIN CHANNER IS RECALIBRATED LATTER AND IS OF NO CONSEQUENCE FOR THE EXPERIMENT. IS TO BE REPORTED TO THE DETECTOR - AGATA PEOPLE

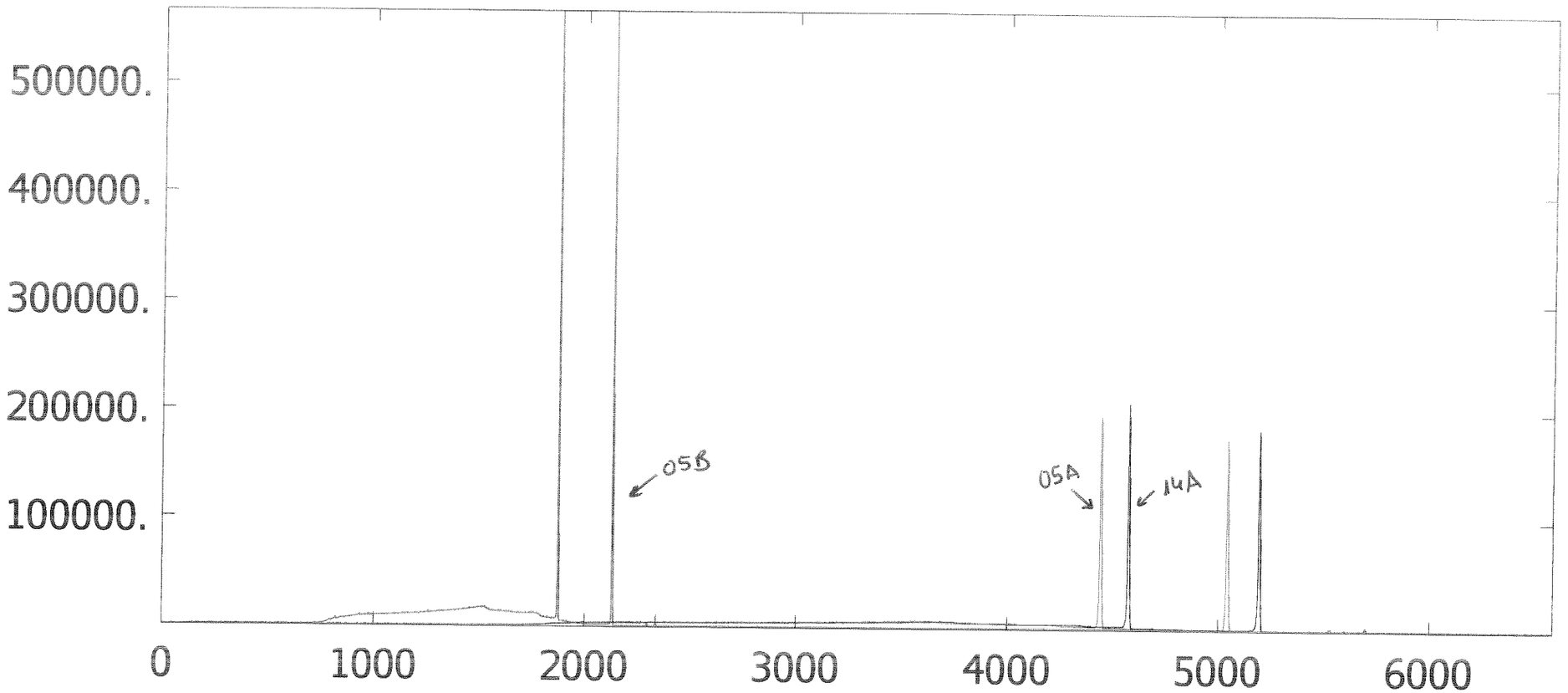
RUN 22

PRODUCER LEVEL



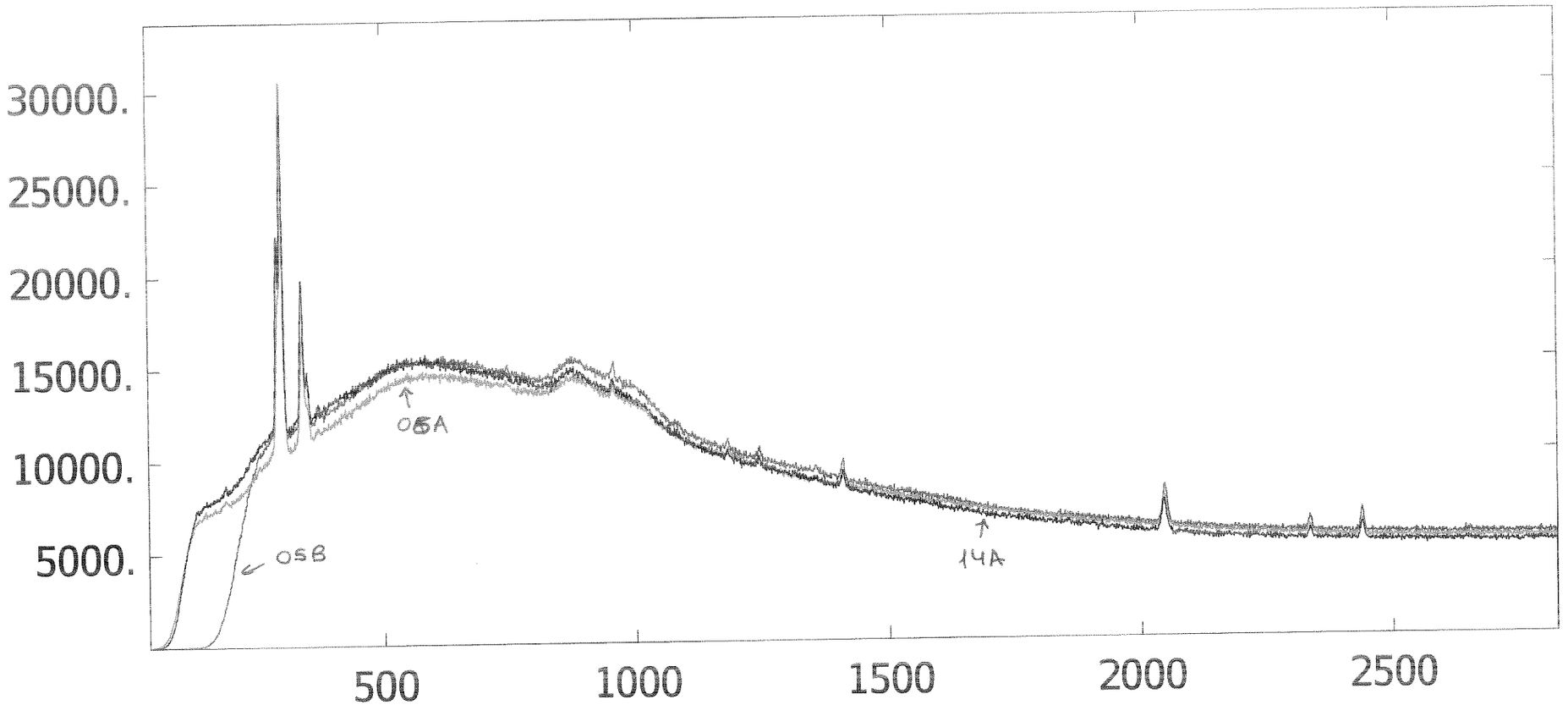
Z Current of RUN 37

PRODUCER level



RUN 22

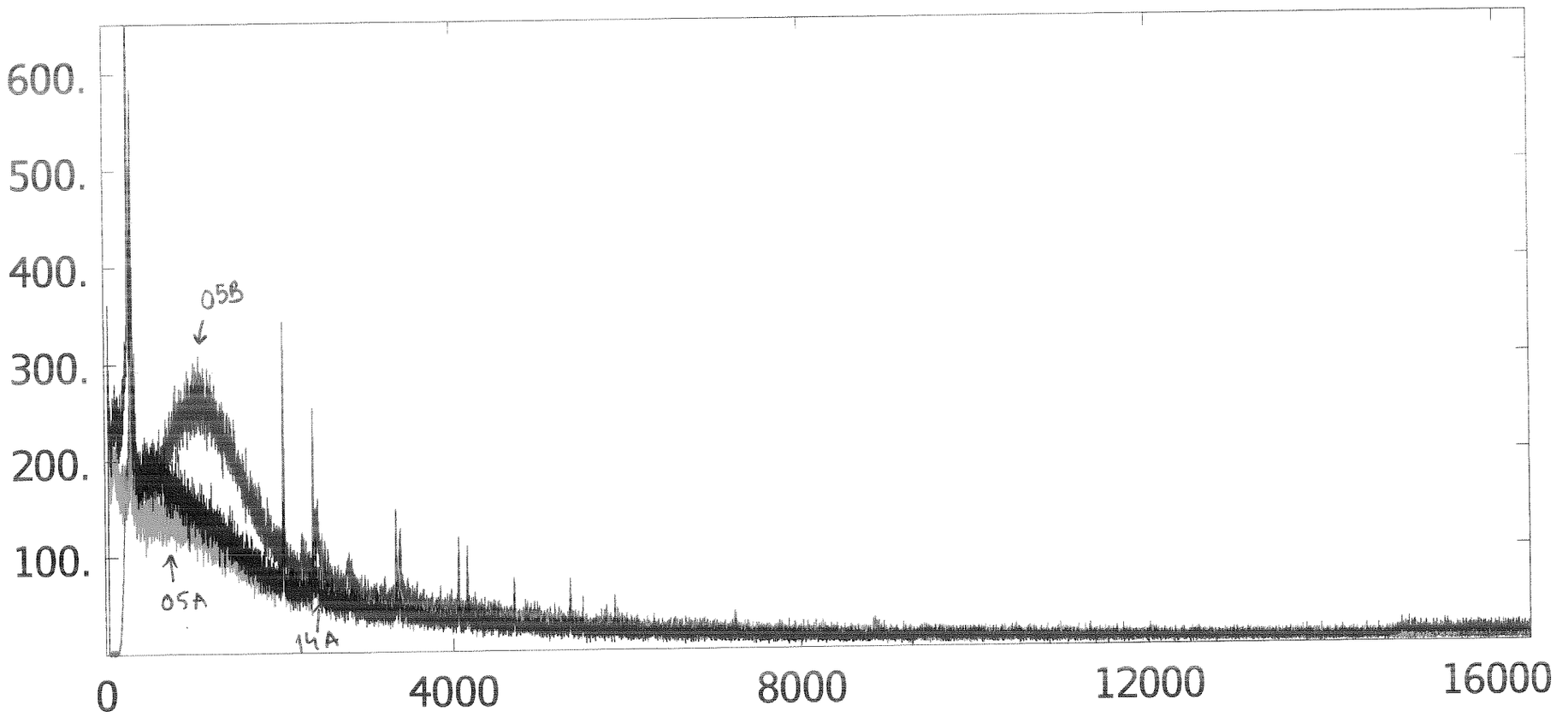
PREPROCESSING level



RUN 22

PREPROCESSING level

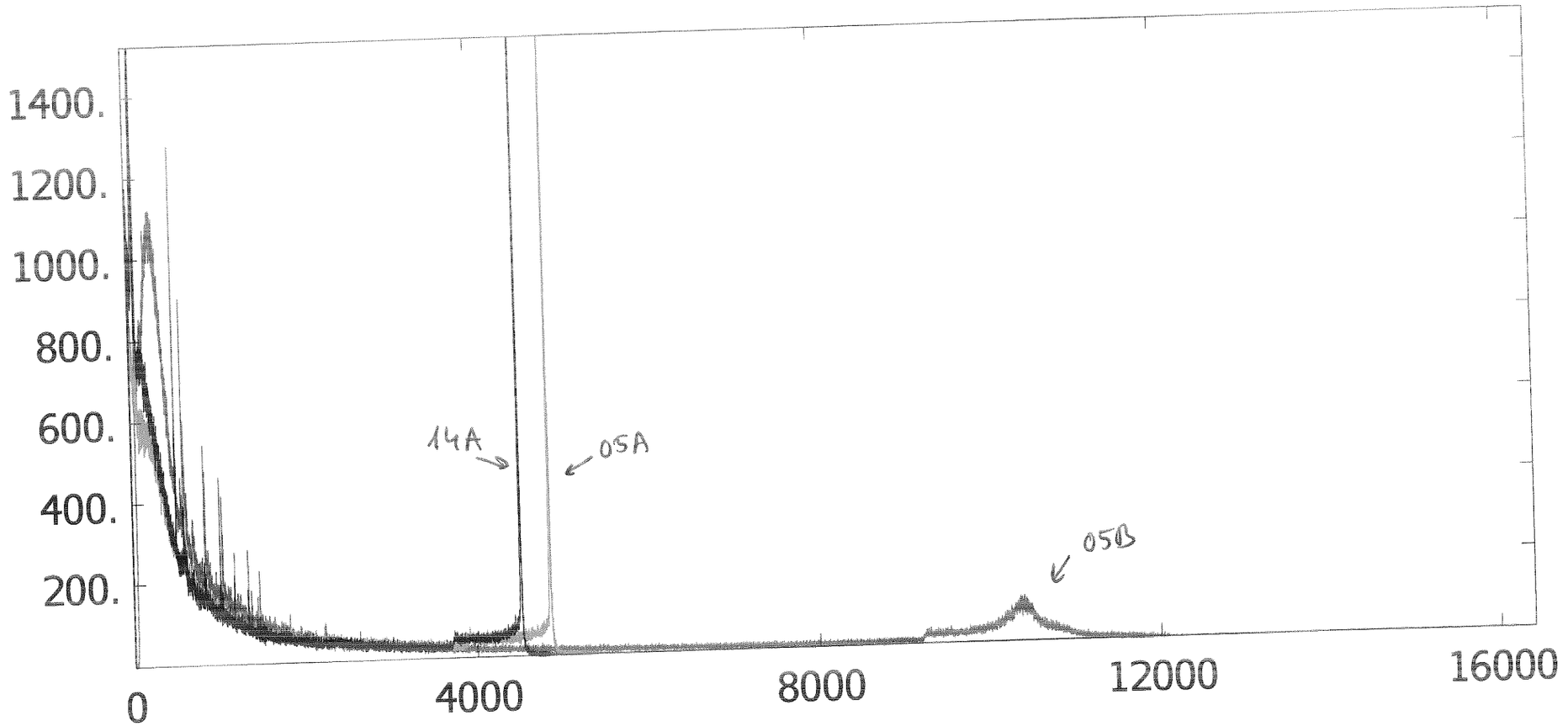
36



Zoomed of RUN 37

PREPROCESSING level

#38



Z Current of RUN37

Exp No. | Primary Beam: | Date

MBS/file location	**File (first)** **File (last)** 530.1md	**Start** **Stop** 23:40
Narval/file location AG 37	**File (first)** **File (last)**	**Start** **Stop** 02:04
Merged(Narval+MBS)/file location	**File (first)** **File (last)**	**Start** **Stop**

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

COMMENTS: Beam was not centered file was closed at 02:04 **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.
S426_19

PRIMARY BEAM
- Element: ^{86}Kr
- SIS energy [MeV/u]: 720
- Intensity-SEETRAM:

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number: 35
- element: Be
- thickness: 2.9 g/cm^2

S1 DEGRADER
TS3ED2...
- Thickness: 2 g/cm^2
- Wedge used:
- O2 (Wedge Oben):
- V1 (Wedge Unten):

S2 DEGRADER
TS3ED7...
- Thickness: 9 g/cm^2
- 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 (open)
- TS2DS3HL (left):
- TS2DS3HR (right):
- TS2DS3VO (top):
- TS2DS3VU (bottom):

S1 SLITS
☐ beam plug out
- TS3DS2HL (left): -10
- TS3DS2HR (right): +20

S2 SLITS
☐ beam plug out
- TS4DS1HL (left): -20
- TS4DS1HR (right): +20
- TS4DS1VO (left): -30
- TS4DS1VU (right): +30

S3 SLITS
- TS4DS3HL (left): -20
- TS4DS3HR (right): +20

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

MAGNETS
Field values from Hall probes:
- TS3MU1: .90875
- TS3MU2: .84224
- TS4MU1: .64934
- HFSMU1: .64675

FRS-RATES (counts/spill)
- 10 kHrtz : 28421
- 10 kHrtz veto dT : 22402
- SC21L: 427119
- SC21R: 430624
- SC41L: 214619
- SC41R: 209040

TA1
- Element : Au - Au
- Thickness : 1mm / 2mm
- Position: center

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

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

PreSPEC-Rates (Validated/Rejected)
- AGATA : 216 / 1630
- FRS : 2200 / 50000
- Ta-ToF-LYCCA : 22525
- HECTOR : 22525 [redacted]

LYCCA / PIs. check
- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

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

Exp No. | Primary Beam: | Date 22/Mar/2019

MBS/file location	**File (first)** 531.lmd **File (last)** 538.lmd	**Start** 02:10 **Stop**
Narval/file location	**File (first)** 38 **File (last)**	**Start** **Stop** 03:38
Merged(Narval+MBS)/file location	**File (first)** **File (last)**	**Start** **Stop**

PURPOSE OF MEASUREMENT: (Centered Isotope) ^{95}Br ☐ Calibration run ☒ Production run

COMMENTS: beam was not completely centered at S4 **shift-in-charge** Pico

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: 8 sec
- period:

FRS setting No.: S426-19

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

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number: 35
- 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):

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

S1 SLITS
☐ beam plug out
- TS3DS2HL (left): -10
- TS3DS2HR (right): +10

S2 SLITS
☐ beam plug out
- TS4DS1HL (left): -20
- TS4DS1HR (right): +20
- TS4DS1VO (left): -30
- TS4DS1VU (right): +30

S3 SLITS
- TS4DS3HL (left): -20
- TS4DS3HR (right): +20

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

MAGNETS
Field values from Hall probes:
- TS3MU1: .90855
- TS3MU2: .84224
- TS4MU1: .64534
- HFSMU1: .64485

FRS-RATES (counts/spill)
- 10 kHrtz: 53466
- 10 kHrtz veto dT: 42750
- SC21L: 251102
- SC21R: 262447
- SC41L: 136018
- SC41R: 123705

TA1
- Element: Au / Au
- Thickness: 1mm 2mm
- Position: Center

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: 264/2184
- FRS: 2000/40000
- Ta-ToF-LYCCA: 109074
- HECTOR: 20313

LYCCA / PIs. check
- ☒ Run-sheet filled
- ☑ Run-sheet uploaded on elog

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

Exp No. | Primary Beam: | Date 12.03.2014

MBS/file location	**File (first)** 520.lmd **File (last)**	**Start** **Stop** 04:22
Narval/file location	**File (first)** AR 39 **File (last)**	**Start** **Stop**
Merged(Narval+MBS)/file location	**File (first)** **File (last)**	**Start** **Stop**

PURPOSE OF MEASUREMENT: (Centered Isotope) 86 Kr ☐ Calibration run ☒ Production run

COMMENTS: **shift-in-charge** Rico

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: 8 sec
- period: 10 sec

FRS setting No.: S426_21

PRIMARY BEAM
- Element: 86 Kr
- SIS energy [MeV/u]: 700
- Intensity-SEETRAM: 228470

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number: 35
- 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):

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

S1 SLITS
☐ beam plug out
- TS3DS2HL (left): ±10
- TS3DS2HR (right):

S2 SLITS
☐ beam plug out
- TS4DS1HL (left): ±30
- TS4DS1HR (right):
- TS4DS1VO (left): ±20
- TS4DS1VU (right):

S3 SLITS
- TS4DS3HL (left): ±20
- TS4DS3HR (right):

S4 SLITS
- HFSDS3H (left): ±35
- HFSDS3H (right):
- Pb Brick (top):
- Pb Brick (bottom):

MAGNETS
Field values from Hall probes:
- TS3MU1: 0.90865
- TS3MU2: 0.84224
- TS4MU1: 0.64574
- HFSMU1: 0.64525

FRS-RATES (counts/spill)
- 10 kHrtz : 49340
- 10 kHrtz veto dT : 39044
- SC21L: 218011
- SC21R: 226325
- SC41L: 115108
- SC41R: 119280

TA1
- Element : Au / Au
- Thickness : 2mm 1mm
- Position: centered

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 : 198 / 1496
- FRS : 2000 / 40000
- Ta-ToF-LYCCA : 110197
- HECTOR : 19200

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

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

Check list

Name: GADEA

Time: 4:25 / 27.03.2014

Agata

- Run number: 39
- Agava requested: 1.9 kHz
- Agava validated: 1.8 kHz
- 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: 540
- Beam intensity:
- Scaler sc at S4: 127 kHz
- Scaler sc at S2: 2606 Hz
- Check in Go4 all the spectra of the list* :
- Check in Go4 the hit pattern of the Wall
- Check in Go4 the triggers: ✓

Comments:

Exp No. S246 Primary Beam: $^{86}Kr^{33+}$ Date 22.03.2014

MBS/file location /d/nusb02/mar_AG_14/data	**File (first)** 553 **File (last)** 570	**Start** 6:11 **Stop** 8:36
Narval/file location /lagatadisks/data2014/0303/14_	**File (first)** AR39 **File (last)**	**Start** **Stop**
Merged(Narval+MBS)/file location /petralla_wreland/	**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: 5s
- period: 8

FRS setting No.: S406_21

PRIMARY BEAM
- Element:
- SIS energy [MeV/u]:
- Intensity-SEETRAM: 300 k (sci 21)

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number:
- element:
- thickness: 2.5 g/cm²

S1 DEGRADER
TS3ED2...
- Thickness: 2g/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):

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: .90865
- TS3MU2: .84224
- TS4MU1: .64584
- HFSMU1: .64525

FRS-RATES
(counts/spill)
- 10 kHrtz : 51 k
- 10 kHrtz veto dT : 39 k
- SC21L: 294 k
- SC21R: 294 k
- SC41L: 154 k
- SC41R: 150 k

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 : 250/1600
- FRS : 2000/120
- Ta-ToF-LYCCA : 140 k
- HECTOR : 24. hz

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

LN2
- LN2 Last Filling : 1:40
- Tank1 Vol. (%) : 100
- Tank2 Vol. (%) : 95

www-wnt.gsi.de/fillingsystem/S4/

Experiment	
Filesheet number	
DATE	22/3/2014
Time	7:15
Who	DANIEL

TARGET	BEAM	INTENSITY

FILE-RUN NUMER NAME: 39

	write ok or comment
RAW spectra 6 ADC	
RAW spectra 7 ADC	
RAW spectra 8 TDC	

HISTOGRAM	1	2	3	4	5	6	7	8
baf slow								
baf fast								
baf fast vs slow								
baf time								
baf slow vs time								

labr	1	2	3	4	5	6	7	8	9	10
L										
HG										
TIME										
LG-TOF										
HG-TOF										

SCALERS KMAX	32 bit counters ×10⁶		CurrentRATE		TotalRate	
	792	S4	9	×10³	Rate S4	10000
	501	OR_BaF2	6	×10³	RATE_OR_BaF2	6300
	990	OR_LaBr3	12	×10³	RATE_OR_LaBr3	12500
	1433	OR_Hector	18	×10³	Rate_OR_Hector	18000
	124	S4_&_Hector	1.5	×10³	Rate_S4_&_Hector	1570
	33	Hector_MT	0.4	×10³	Rate Hector_MT	420

TRIGGER RATE go4

RATE S4

SYNCHRO	
	Tof TOF
	TOF LYCCa TOF LABr

OBSERVATIONS
REMARKS

For experts ONLY
PLEASE CHECK in KMAX once per DAY the ADC and TDC settings and allways after each MBS reboot
PLEASE CHECK once per DAY the LaBr-PRO and BaF-Pro setting

Check list

Name: DANIEL

Time: 7:15 22/3/2014

Agata

- Run number: 391
- Agava requested: 2.5
- Agava validated: 2.2
- 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: OC 1B
- 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: 561
- Beam intensity:
- Scaler sc at S4: 150
- Scaler sc at S2: 240
- Check in Go4 all the spectra of the list* :
- Check in Go4 the hit pattern of the Wall
- Check in Go4 the triggers:

Comments:

Exp No. | Primary Beam: | Date

MBS/file location /d/ising_st/mar_16_14/data	**File (first)** 571 **File (last)**	**Start** 09:10 **Stop**
Narval/file location	**File (first)** AR39 **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: 10 s
- period: 13 s

FRS setting No. S126_21

PRIMARY BEAM
- Element:
- SIS energy [MeV/u]: 561.4
- Intensity-SEETRAM: 800 k

PROD. TARGET TS1ET5HS, TS1ET5VS:
- number:
- element:
- thickness: 2.5 g/cm²

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: 0.30845
- TS3MU2: 0.84224
- TS4MU1: 0.64574
- HFSMU1: 0.64565

FRS-RATES (counts/spill)
- 10 kHrtz : 102 k
- 10 kHrtz veto dT : 73 k
- SC21L: 785 k
- SC21R: 785 k
- SC41L: 405 k
- SC41R: 398 k

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 : 3260/328.
- FRS : 2,14/2412
- Ta-ToF-LYCCA : 371 k
- HECTOR : 63 k

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

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

Exp No. | Primary Beam: | Date 22.03.2024

MBS/file location	**File (first)** 591 **File (last)** 628	**Start** 20:55 **Stop**
Narval/file location	**File (first)** AR39 **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: 100
- period: 13 s

FRS setting No.
5426_21

PRIMARY BEAM
- Element:
- SIS energy [MeV/u]: SCI2
- Intensity-SEETRAM: 830 k

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: .30815
- TS3MU2: .84224
- TS4MU1: .64574
- HFSMU1: .64525

FRS-RATES
(counts/spill)
- 10 kHrtz : 104 k
- 10 kHrtz veto dT : 94 k
- SC21L: 800 k
- SC21R: 793 k
- SC41L: 413 k
- SC41R: 406 k

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 : 378 k
- HECTOR : 71

LYCCA / PIs. check
- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2
- LN2 Last Filling : 10:50
- Tank1 Vol. (%) : 92
- Tank2 Vol. (%) : 85

Experiment	
Filesheet number	
DATE	22/03/14
Time	11 00
Who	DANIEL

TARGET	BEAM	INTENSITY

FILE-RUN NUMER NAME

	write ok or comment
RAW spectra 6 ADC	
RAW spectra 7 ADC	
RAW spectra 8 TDC	

HISTOGRAM	1	2	3	4	5	6	7	8
baf slow								
baf fast								
baf fast vs slow								
baf time								
baf slow vs time								

labr	1	2	3	4	5	6	7	8	9	10
L										
HG										
TIME										
LG-TOF										
HG-TOF										

SCALERS KMAX	32 bit counters	CurrentRATE		TotalRate
	S4	27 K	Rate S4	13 K
	OR_BaF2	9.5K	RATE_OR_BaF2	6.9K
	OR_LaBr3	15.9K	RATE_OR_LaBr3	13.1K
	OR_Hector	23.5K	Rate_OR_Hector	19. K
	S4_&_Hector	4.3 K	Rate_S4_&_Hector	2 K
	Hector_MT	1.2 K	Rate Hector_MT	0.55K

TRIGGER RATE go4	

RATE S4

SYNCHRO	
	Tof TOF
	TOF LYCCa TOF LABr

OBSERVATIONS
REMARKS

Saved in Hector Dropbox\Screenshot

For experts ONLY
PLEASE CHECK in KMAX once per DAY the ADC and TDC settings and allways after each MBS reboot
PLEASE CHECK once per DAY the LaBr-PRO and BaF-Pro setting

Check list

Name: DANIEL

Time: 11:00 22/03/14

Agata

- Run number: 39
- Agava requested: 2400
- Agava validated: 2100
- 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": X
- - number of counts in 511 keV:
- - number of counts in 1460 keV K:
-
- Crystals with problems:

General

- lmd file nr: 593
- Beam intensity:
- Scaler sc at S4:
- Scaler sc at S2:
- 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:

Check list

Name: DANIEL

Time: 8:45 p.m. , 22-03-2014

Agata

- Run number: 42
- Agava requested: 2300
- Agava validated: 2200
- 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: 635
- Beam intensity: 64×10^6
- Scaler sc at S4: 370
- Scaler sc at S2: 740
- Check in Go4 all the spectra of the list* :
- Check in Go4 the hit pattern of the Wall ✓
- Check in Go4 the triggers: ✓

Comments:

Experiment	
Filesheet number	
DATE	22/03/14
Time	21:15
Who	DANIEL

TARGET	BEAM	INTENSITY

FILE-RUN NUMER NAME

	write ok or comment
RAW spectra 6 ADC	
RAW spectra 7 ADC	
RAW spectra 8 TDC	

HISTOGRAM ✓	1	2	3	4	5	6	7	8
baf slow								
baf fast								
baf fast vs slow								
baf time								
baf slow vs time								

labr	1	2	3	4	5	6	7	8	9	10
L										
HG										
TIME										
LG-TOF										
HG-TOF										

SCALERS KMAX	32 bit counters		CurrentRATE		TotalRate
		S4	28	Rate S4	16
		OR_BaF2	3	RATE_OR_BaF2	2.3
		OR_LaBr3	8	RATE_OR_LaBr3	6.6
		OR_Hector	11	Rate_OR_Hector	9.2
		S4_&_Hector	3	Rate_S4_&_Hector	1.5
		Hector_MT	1.6	Rate Hector_MT	0.6

TRIGGER RATE go4	

RATE S4	SYNCHRO	
		Tof TOF
		TOF LYCCa TOF LABr

OBSERVATIONS
REMARKS

For experts ONLY
PLEASE CHECK in KMAX once per DAY the ADC and TDC settings and allways after each MBS reboot
PLEASE CHECK once per DAY the LaBr-PRO and BaF-Pro setting

Exp No. S426 Primary Beam: 86Kr Date 22 MAR 2014

MBS/file location 85Br_coula_AG42_0635	**File (first)** 635 **File (last)**	**Start** 20:45 **Stop** 20:34
Narval/file location agatadisk...	**File (first)** AR42 **File (last)**	**Start** 20:45 **Stop** 22:34
Merged(Narval+MBS)/file location	**File (first)** **File (last)**	**Start** **Stop**

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

N1 - coula 85Br

COMMENTS: **shift-in-charge** Stahl

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: 10s
- period: 15s

FRS setting No. S426_21

PRIMARY BEAM
- Element: 86Kr
- SIS energy [MeV/u] 700 MeV/u
- Intensity-SEETRAM 0,85 x 10^8

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

S1 SLITS
☐ beam plug out
- TS3DS2HL (left): -10
- TS3DS2HR (right): +10

S2 SLITS
☐ beam plug out
- TS4DS1HL (left): -30
- TS4DS1HR (right): +30
- TS4DS1VO (left): -20
- TS4DS1VU (right): +20

S3 SLITS
- TS4DS3HL (left): -20
- TS4DS3HR (right): +20

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

MAGNETS
Field values from Hall probes:
- TS3MU1: 0.90855
- TS3MU2: 0.84224
- TS4MU1: 0.64874
- HFSMU1: 0.64525

FRS-RATES (counts/spill)
- 10 kHrtz: 1004
- 10 kHrtz veto dT: 74,4
- SC21L: 753 k
- SC21R: 748k
- SC41L: 373 k
- SC41R: 388 k

TA1
- Element: Au + Al
- Thickness: 2 g/cm² + 1 g/cm²
- Position: Center + Tower1

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)/4...
- ☒ p+Agata+Lyc(9)/...
- ☑ Part-SC41(10)/8...
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

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

PreSPEC-Rates (Validated/Rejected)
- AGATA :
- FRS :
- Ta-ToF-LYCCA : ~~435 x Hz~~
- HECTOR :

LYCCA / PIs. check
- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2
- LN2 Last Filling : 13:40
- Tank1 Vol. (%) : 75%
- Tank2 Vol. (%) : 70%

Exp No.	Primary Beam:	Date
MBS/file location	**File (first)** DR43_Trig3_657 **File (last)**	**Start** 10:40 pm **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**

All the same as before. Trigger 3 with reduction factor 3

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:
- TS3MU2:
- TS4MU1:
- HFSMU1:

FRS-RATES
(counts/spill)
- 10 kHrtz :
- 10 kHrtz 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. (%) :

After some minutes we put
trigger 3 reduction 4
trigger 8 reduction 1

10:97, trigger 8 reduction = 0

Exp No. | Primary Beam: | Date 22.03.2014

MBS/file location	**File (first)** 659 **File (last)**	**Start** 10.45 **Stop**
Narval/file location	**File (first)** **File (last)** AR 43	**Start** 10.46 **Stop**
Merged(Narval+MBS)/file location	**File (first)** **File (last)**	**Start** **Stop**

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

COMMENTS: All the same as before. **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: 10 s
- period: 135

FRS setting No.
- S426-21

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: 0.90875
- TS3MU2: 0.34234
- TS4MU1: 0.64574
- HFSMU1: 0.64525

FRS-RATES
(counts/spill)
- 10 kHrtz :
- 10 kHrtz veto dT :
- SC21L: 830.000
- SC21R: 891.00
- SC41L: 410.000
- SC41R: 422.000

TA1
- Element :
- Thickness :
- Position:

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)/.....0
- ☒ p+Agata+Lyc(9)/.....0
- ☒ Part-SC41(10)/.....9
- ☐ 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 : 19:40
- Tank1 Vol. (%) : 74
- Tank2 Vol. (%) : 70

Check list

Name: Uliana

Time: 11.15

Agata

- Run number: 43
- Agava requested: 2300
- Agava validated: 200
- 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: 667
- Beam intensity: 1×10^8
- Scaler sc at S4: 890.000 } spill
- Scaler sc at S2: 450.000 }
- Check in Go4 all the spectra of the list* :
- Check in Go4 the hit pattern of the Wall ✓
- Check in Go4 the triggers: 3, 8, 9, 10

Comments:

The drain was in. We put it out ≈ 30 mm lost.

Exp No. | Primary Beam: | Date 23.03.14

MBS/file location	**File (first)** 677 **File (last)**	**Start** 00:15 **Stop**
Narval/file location	**File (first)** 43 **File (last)**	**Start** 00:15 **Stop**
Merged(Narval+MBS)/file location	**File (first)** **File (last)**	**Start** **Stop**

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

COMMENTS: All the same as before **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: 10s
- period: 13s

FRS setting No.
- S426-21

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: 0.90855
- TS3MU2: 0.84224
- TS4MU1: 0.64574
- HFSMU1: 0.6455

FRS-RATES (counts/spill)
- 10 kHrtz :
- 10 kHrtz veto dT :
- SC21L: 936000
- SC21R: 931000
- SC41L: 466000
- SC41R: 475000

TA1
- Element :
- Thickness :
- Position:

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)/..0
- ☒ p+Agata+Lyc(9)/..0
- ☒ Part-SC41(10)/..8
- ☐ 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 : 19:50
- Tank1 Vol. (%) : 74
- Tank2 Vol. (%) : 70

Check list

Name: Liana

Time: 00:20

Agata

- Run number: 43
- Agava requested: 2400
- Agava validated: 2100
- 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: 679
- Beam intensity: 1×10^8
- Scaler sc at S4: 430.000 } >p.11
- Scaler sc at S2: 910.000
- Check in Go4 all the spectra of the list* :
- Check in Go4 the hit pattern of the Wall ✓
- Check in Go4 the triggers: 3, 8, 9, 10

Comments:

Crystal 07 needed re-sync.

Exp No. | Primary Beam: | Date 23.03.14

MBS/file location	**File (first)** 698 **File (last)**	**Start** 02:00 **Stop**
Narval/file location	**File (first)** 43 **File (last)**	**Start** 02:00 **Stop**
Merged(Narval+MBS)/file location	**File (first)** **File (last)**	**Start** **Stop**

PURPOSE OF MEASUREMENT: (Centered Isotope) ^{85}Br ☐ Calibration run ☒ Production run

COMMENTS: All same as before **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: 10s
- period: 13s

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: 0.90855
- TS3MU2: 0.84224
- TS4MU1: 0.64574
- HFSMU1: 0.64525

FRS-RATES
(counts/spill)
- 10 kHrtz : 114 312
- 10 kHrtz veto dT : 80219
- SC21L: 941000
- SC21R: 889000
- SC41L: 476000
- SC41R: 465000

TA1
- Element :
- Thickness :
- Position:

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)/.0.
- ☒ p+Agata+Lyc(9)/.0.
- ☒ Part-SC41(10)/..8.
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

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

PreSPEC-Rates
(Validated/Rejected)
- AGATA :
- FRS :
- Ta-ToF-LYCCA : 438000
- HECTOR : 4L346

LYCCA / PIs. check
- ☐ Run-sheet filled
- ☐ Run-sheet uploaded on elog

LN2
- LN2 Last Filling : 01:45
- Tank1 Vol. (%) : 64%
- Tank2 Vol. (%) : 62%

At 2:40 am Finger thresholds changed to 590. Should not affect anything.

Exp No. | Primary Beam: | Date 23.03.14

MBS/file location	**File (first)** 718 **File (last)**	**Start** 3:35 **Stop**
Narval/file location	**File (first)** 43 **File (last)**	**Start** 3:35 **Stop**
Merged(Narval+MBS)/file location	**File (first)** **File (last)**	**Start** **Stop**

PURPOSE OF MEASUREMENT: (Centered Isotope) ^{85}Br Coulex ☐ Calibration run ☒ Production run

COMMENTS: All same as before **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: 10s
- period: 13s

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: 0.90855
- TS3MU2: 0.84224
- TS4MU1: 0.64571
- HFSMU1: 0.64525

FRS-RATES
(counts/spill)
- 10 kHrtz : 104733
- 10 kHrtz veto dT : 71083
- SC21L: 921000
- SC21R: 943000
- SC41L: 472000
- SC41R: 482000

TA1
- Element :
- Thickness :
- Position:

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)/..0.
- ☒ p+Agata+Lyc(9)/..0.
- ☒ Part-SC41(10)/..8.
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

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

PreSPEC-Rates
(Validated/Rejected)
- AGATA :
- FRS :
- Ta-ToF-LYCCA : 431000
- HECTOR : 42038

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

LN2
- LN2 Last Filling : 01:45
- Tank1 Vol. (%) : 64
- Tank2 Vol. (%) : 62

Check list

Name: Liliana

Time: 3:40

Agata

- Run number: 43
- Agava requested: 2400
- Agava validated: 2100
- 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: 721
- Beam intensity: 1.1×10^7
- Scaler sc at S4: 930.000
- Scaler sc at S2: 470.000
- Check in Go4 all the spectra of the list* : ✓
- Check in Go4 the hit pattern of the Wall
- Check in Go4 the triggers: 3, 8, 9, 10

Comments:

Exp No. 5426 Primary Beam: 86 Kr Date 23.03.2014

MBS/file location	**File (first)** current run number: **File (last)** 738	**Start** 05:14 **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 elements
- ☐ SEETRAM
- ☐ SCI-01
- ☐ FRS-TA0
- ☐ S1-degrader
- ☐ S2-degrader
- ☐ SCI-21
- ☐ S4-degrader
- ☐ LYCCA-Start
- ☐ LYCCA-TaStart
- ☐ TA1
- ☐ TaDSSD

SPILL
- spill length: 10 sec
- period: 13 sec

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: 0.9855
- TS3MU2: 0.84228
- TS4MU1: 0.64574
- HFSMU1: 0.64525

FRS-RATES
(counts/spill)
- 10 kHrtz : 10 k
- 10 kHrtz veto dT : 6,5 k
- SC21L: 91 k
- SC21R: 91 k
- SC41L: 47 k
- SC41R: 47 k

TA1
- Element :
- Thickness :
- Position:

PreSPEC-Trig/red.
- ☐ Pulser(1) /.....
- ☐ LYCCA cal(2)/.....
- ☒ AgataCal(3)/..24
- ☐ HEC Cal(4)/.....
- ☐ FRS from TB(5)/...
- ☐ p+HEC(6)/.....
- ☐ p+Agata(7)/.....
- ☒ p+HEC+Lyc(8)/.....
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/..28
- ☐ 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. (%) : 63%
- Tank2 Vol. (%) : 62%

Exp No. S426 Primary Beam: 86Kr Date 23/03/2014 (6:00 a.m)

MBS/file location /frsdo02/Mars-AG49/data	**File (first)** **File (last)** 85Br_Coulex_AG43	**Start** **Stop**
Narval/file location 190314-pietralla_wieland	**File (first)** **File (last)** 43	**Start** **Stop**
Merged(Narval+MBS)/file location	**File (first)** **File (last)**	**Start** **Stop**

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

M1 coulex for 85Br

COMMENTS: **shift-in-charge** G. Rainovski / H. Pai

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: 10 s
- period: 15 s

FRS setting No. S426-21

PRIMARY BEAM
- Element: 86Kr
- SIS energy [MeV/u]: 700
- Intensity-SEETRAM: 97x10^6

PROD. TARGET
TS1ET5HS, TS1ET5VS:
- number: 35
- 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):

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

S1 SLITS
☐ beam plug out
- TS3DS2HL (left): -10
- TS3DS2HR (right): +10

S2 SLITS
☐ beam plug out
- TS4DS1HL (left): -30
- TS4DS1HR (right): +30
- TS4DS1VO (left): -20
- TS4DS1VU (right): +20

S3 SLITS
- TS4DS3HL (left): -20
- TS4DS3HR (right): +20

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

MAGNETS
Field values from Hall probes:
- TS3MU1: 0.90855
- TS3MU2: 0.84224
- TS4MU1: 0.64574
- HFSMU1: 0.64525

FRS-RATES
(counts/spill)
- 10 kHrtz : 100.9 KH
- 10 kHrtz veto dT : 67.45 KH
- SC21L: 885 KH
- SC21R: 919 KH
- SC41L: 474 KH
- SC41R: 479 KHz

TA1
- Element : Au + Au
- Thickness : 2 mm + 1 mm
- Position: Centre + Forward

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)/..4.
- ☒ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/..8.
- ☐ Spill-on(12)/.......
- ☐ Spill-off(13)/.......

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

PreSPEC-Rates
(Validated/Rejected)
- AGATA :
- FRS :
- Ta-ToF-LYCCA : 435 kHz
- HECTOR :

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

LN2
- LN2 Last Filling : 1.44
- Tank1 Vol. (%) : 64
- Tank2 Vol. (%) : 61

Check list

Name: Rosa

Time: 6:03

Agata

- Run number: 43
- Agava requested: 2080
- Agava validated: 1852
- 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: 00B stopped

General

- lmd file nr: 749
- Beam intensity: 82.10⁶ (GTS1D245)
- Scaler sc at S4: 406.10^3 } at scalers
- Scaler sc at S2: 800.10^3 } at scalers
- 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:

Exp No. S426 Primary Beam: 86Kr Date 23/03/2014 (8:50 a.m.)

MBS/file location /lustre02/mar-AG243/data	**File (first)** **File (last)** 85Br-cooler-AG243-0170.lmd	**Start** **Stop**
Narval/file location	**File (first)** **File (last)** 43	**Start** **Stop**
Merged(Narval+MBS)/file location	**File (first)** **File (last)**	**Start** **Stop**

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

M1 scan for 85Br

COMMENTS:

shift-in-charge

G. Rainovski / H. Pai

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: 10 s

period: 10

FRS setting No.

S426_21

PRIMARY BEAM

Element: 86Kr

SIS energy [MeV/u]: 700

Intensity-SEETRAM: 89x10^6

PROD. TARGET

TS1ET5HS, TS1ET5VS:

number: 3 5

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):

S0 SLITS open

☐ beam stop out

TS2DS3HL (left):

TS2DS3HR (right):

TS2DS3VO (top):

TS2DS3VU (bottom):

S1 SLITS

☐ beam plug out

TS3DS2HL (left): -10

TS3DS2HR (right): +10

S2 SLITS

☐ beam plug out

TS4DS1HL (left): -30

TS4DS1HR (right): +30

TS4DS1VO (left): -20

TS4DS1VU (right): +20

S3 SLITS

TS4DS3HL (left): -20

TS4DS3HR (right): +20

S4 SLITS

HFSDS3H (left): -35

HFSDS3H (right): +35

Pb Brick (top):

Pb Brick (bottom):

MAGNETS

Field values from Hall probes:

TS3MU1: 0.90855

TS3MU2: 0.84224

TS4MU1: 0.64574

HFSMU1: 0.64515

FRS-RATES

(counts/spill)

10 kHrtz : 100 Hz

10 kHrtz veto dT : 69.8 KH

SC21L: 811.6 KH

SC21R: 820.2 KH

SC41L: 434.7 KH

SC41R: 415.6 KHz

TA1

Element : Al + Al

Thickness : 2mm + 1mm

Position: Centre + Forward

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)/...4
- ☑ p+Agata+Lyc(9)/...
- ☒ Part-SC41(10)/..8.
- ☐ Spill-on(12)/.....
- ☐ Spill-off(13)/.....

FRS-TRIGGER

- ☐ SCI21
- ☑ SCI41
- ☐ Other:

PreSPEC-Rates

(Validated/Rejected)

AGATA :

FRS :

Ta-ToF-LYCCA : 395 Hz

HECTOR :

LYCCA / Pls. check

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

LN2

LN2 Last Filling : 8:00 a.m

Tank1 Vol. (%) : 55 %

Tank2 Vol. (%) : 55 %

Check list

Name: Rose

Time: 8:29

Agata

- Run number: 43
- Agava requested: 2046
- Agava validated: 1868
- 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: 0 0B stopped

General

- lmd file nr: 777
- Beam intensity: $82 \cdot 10^6$ (GTS IDIAS)
- Scaler sc at S4: $400 \cdot 10^3$
- Scaler sc at S2: $813 \cdot 10^3$ } at scaler
- 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: