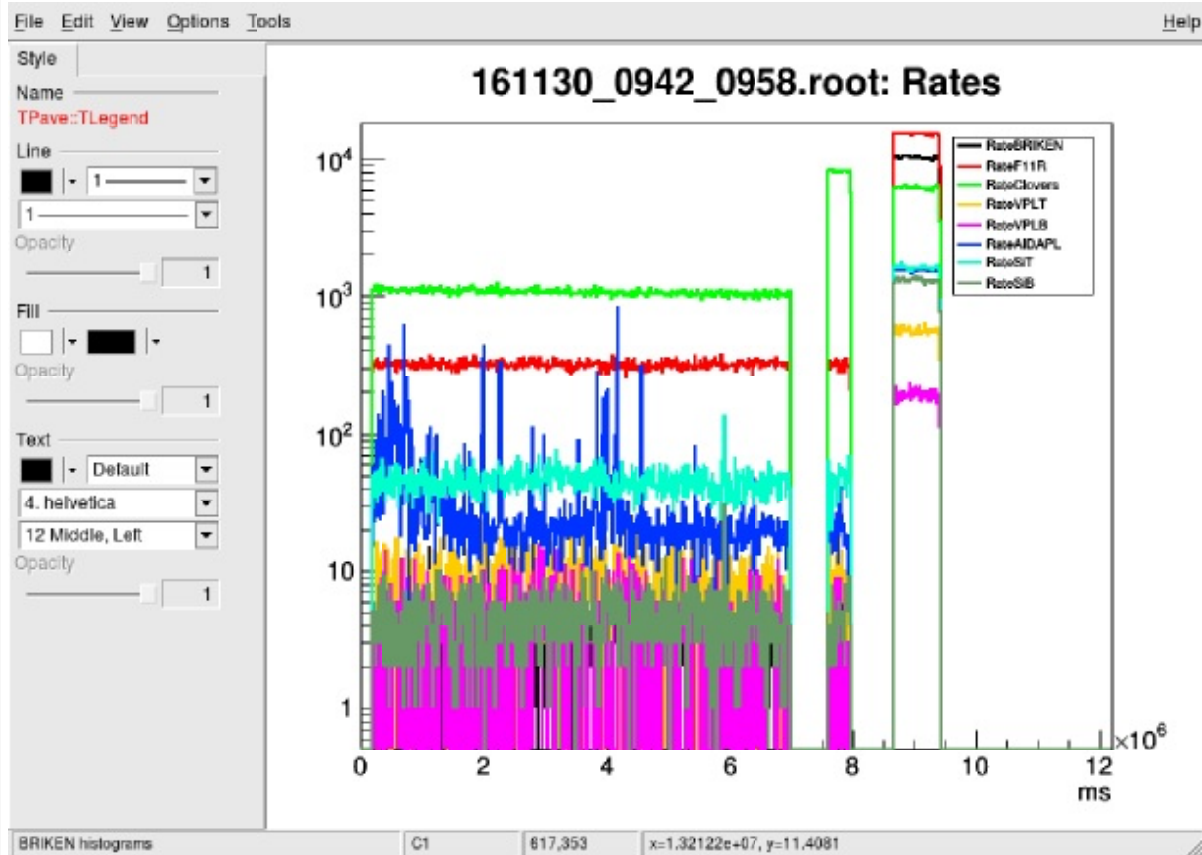


12/03/16 <http://ribf-exp.riken.jp/elog/RIBF123/page?mode=full> #31  
 BRIKEN stop : 09:58  
 ROOT online : 161130\_0942\_0958.root (histograms not clear from previous root online with 152Eu)  
 AIDA run : NO  
 AIDA stop : NO  
 BigRIPS RUN : 1096

Attachment 1: [SyncCheckScreen20161130\\_1002.png](#)



226	Wed Nov 30 09:41:41 2016	BRIKEN collaboration	run		RUN   BRIKEN	169	No beam / 152Eu source run	
-----	--------------------------	----------------------	-----	--	--------------	-----	----------------------------	--

```

===== START =====
Date 2016/11/30
Start time : 09:29
BRIKEN run : 169
Daq Conf. File : 161129_1926_Conf_BrikenFull.xlsx
DLT File name : 161130_0929_169.dlt
AIDA run : NO
AIDA start : NO
BigRIPS run : NO BEAM
BigRIPS start : NO BEAM

-----
Shifters: RCF, VP
===== Setup =====
No beam

===== COMMENTS =====
09:30 We put the 152Eu source to have a calibration file for the Ge.

----- Rates -----

```

```

===== END =====
Date 2016/11/30
BRIKEN run : 169
BRIKEN stop : 09:34
ROOT online : 161130_0929_0934_GeCalibr152Eu.root
AIDA run : NO
AIDA stop : NO
BigRIPS RUN : NO

```

225	Wed Nov 30 07:27:47 2016	BRIKEN collaboration	run		RUN   BRIKEN	167-168	Background (no beam)	
-----	--------------------------	----------------------	-----	--	--------------	---------	----------------------	--

```

===== START =====
Date 2016/11/30
Start time : 07:25
BRIKEN run : 167
Daq Conf. File : 161129_1926_Conf_BrikenFull.xlsx
DLT File name : 161130_0725

```

Shifters: AT, CG, RCF, VP

=====  
===== COMMENTS =====

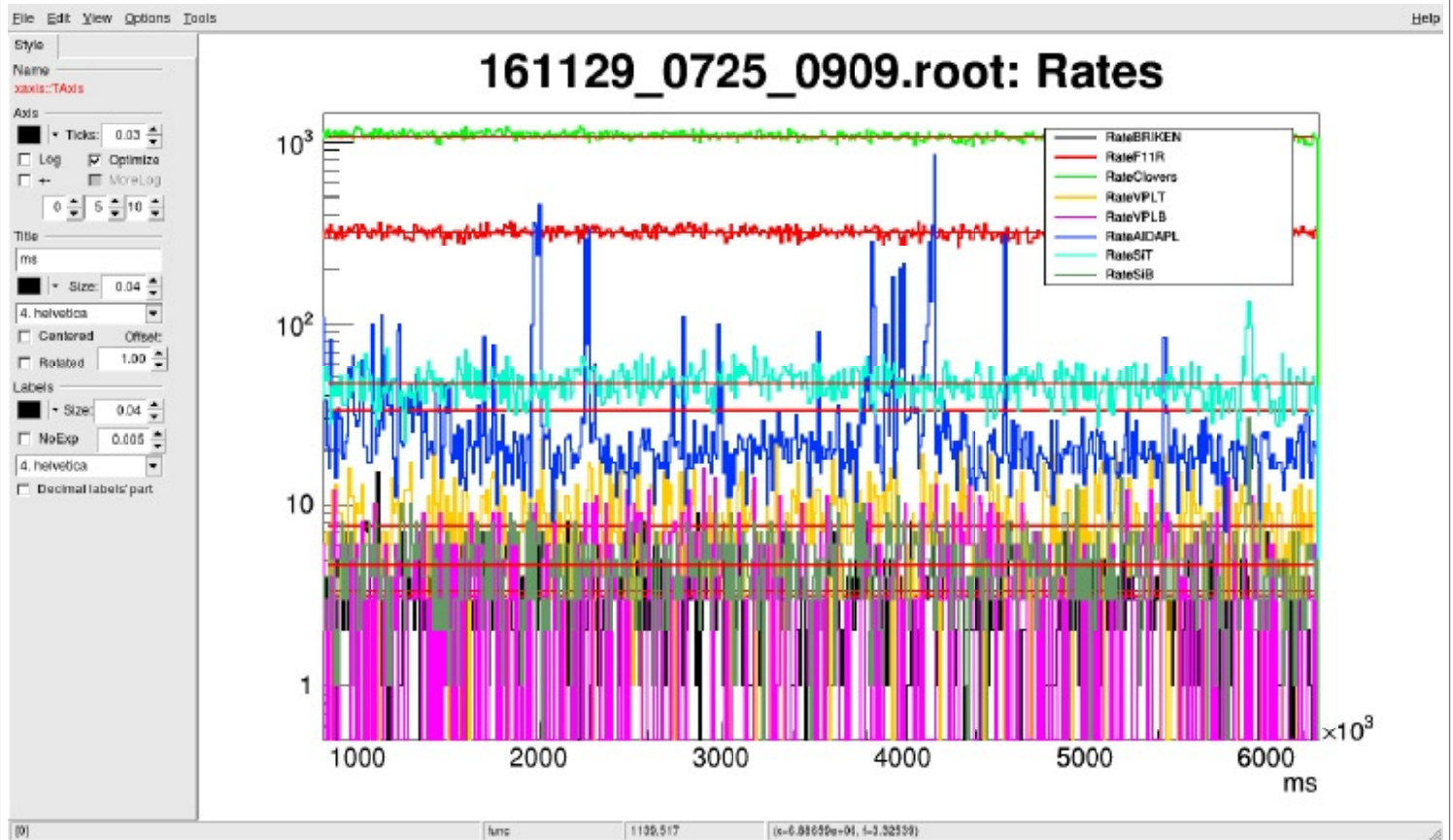
07:20 Beam off since 4:35  
07:25 Started background measurement!!  
09:09 Saved the online root file. See rates attached.  
09:18 stopped run

----- Rates -----  
Current File: 161130\_0725\_0909.root

RateBRIKEN = 0.312064 cps  
RateF11R = 31.9559 cps  
RateClovers = 106.656 cps  
RateVPLT = 0.760326 cps  
RateVPLB = 0.332539 cps  
RateAIDAPL = 3.27038 cps  
RateSiT = 4.61188 cps  
RateSiB = 0.465082 cps

=====  
Date 2016/11/30  
BRIKEN run : 168  
BRIKEN stop : 09:18h  
ROOT online : 161130\_0725\_0909.root  
AIDA run : NO AIDA BRIKEN BKG MEASUREMENT  
AIDA stop : NO  
BigRIPS RUN : NO BEAM

Attachment 1: SyncCheckScreen20161130\_0923.png



224	Wed Nov 30 01:54:57 2016	BRIKEN collaboration	New measurement	RUN   BRIKEN	162-166			
-----	--------------------------	----------------------	-----------------	--------------	---------	--	--	--

=====  
Date 2016/11/30  
Start time : 01:46  
BRIKEN run : 162  
Daq Conf. File : 161129\_1926\_Conf\_BrikenFull.xlsx  
DLT File name : 161130\_0146\_162.dlt  
AIDA run : 36\_1  
AIDA start : 01:43  
BigRIPS run : 1089  
BigRIPS start : 01:42

Shifters: AT & AT, AE, CG

=====  
Setup

=====  
Setup  
=====

Central fragment: 41Al @F8

--- Degraders ---

Fixed: 8 mm Al to the front of the PE Shielding between Musics chambers.

Variable:

1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)

1. OUT

2. IN

3. IN

Added a 0.2 mm Al degrader.

=====  
COMMENTS  
=====

BRIKEN run 161: it's empty.

The change of the old targeted started at 00:16, and it ended at 01:42. Now: pure carbon target at F8.

Time Stamp reset at Wed Nov 30 2016 01:45:38

Synchronization check: after a few minutes of running, we saw again double peak in the correlation plots, and many counts in the overflow bin.

02:39 Beam off

03:35 Beam on. The neutron rate increased dramatically!!!!!!!!!!!!!!

03:52 Online saved 161130\_0146\_164\_0352.root

----- Rates (3:53) -----

RateBRIKEN = 1048.99 cps

RateF11R = 1552.92 cps

RateClovers = 644.567 cps

RateVPLT = 58.1526 cps

RateVPLB = 19.275 cps

RateAIDAPL = 156.262 cps

4:07 Rates in Silicon were higher than before. In "161130\_0407rates.png" some rates are shown: BRIKEN(black),Clovers(red), F11\_PL\_R(green), Si\_T(blue).

04:32 Saved SyncCheckScreen20161130\_0432.png

04:35 Beam Off

04:51 Online Saved 161130\_0146\_164\_0451.root, it seems that the gamma-like component in rings 1 and 2 has increased a lot!

05:59 Synchronization checked! Saved SyncCheckScreen20161130\_0558.png

06:22 Acquisition stopped. There are problems with the accelerator facility, one magnet has broken. The beam stop can be hours or maybe one day... :|

=====  
END  
=====

Date 2016/11/30

BRIKEN run : 166

BRIKEN stop : 06:19

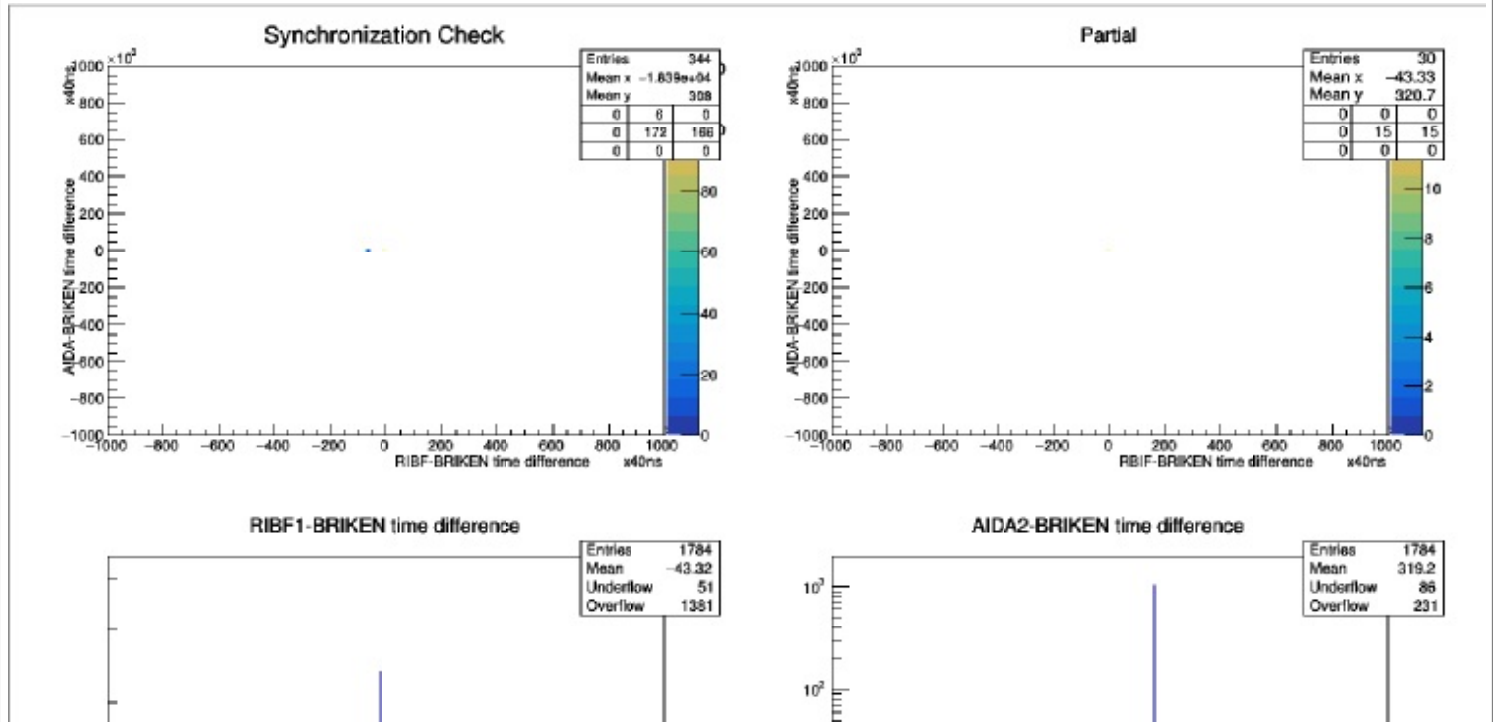
ROOT online : 161130\_0146\_164\_0352.root, 161130\_0146\_164\_0451.root, 161130\_0146\_164\_0619.root

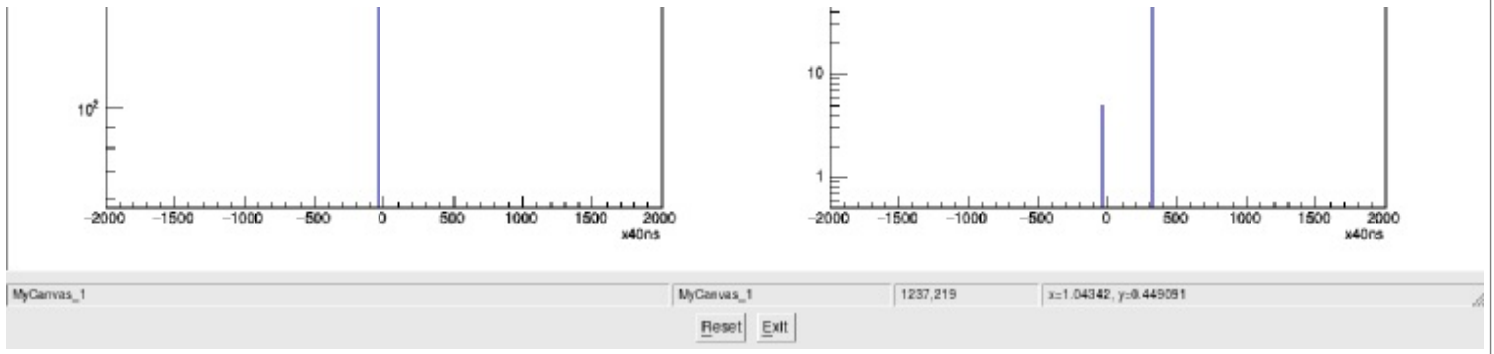
AIDA run : R36\_55

AIDA stop : 06:12

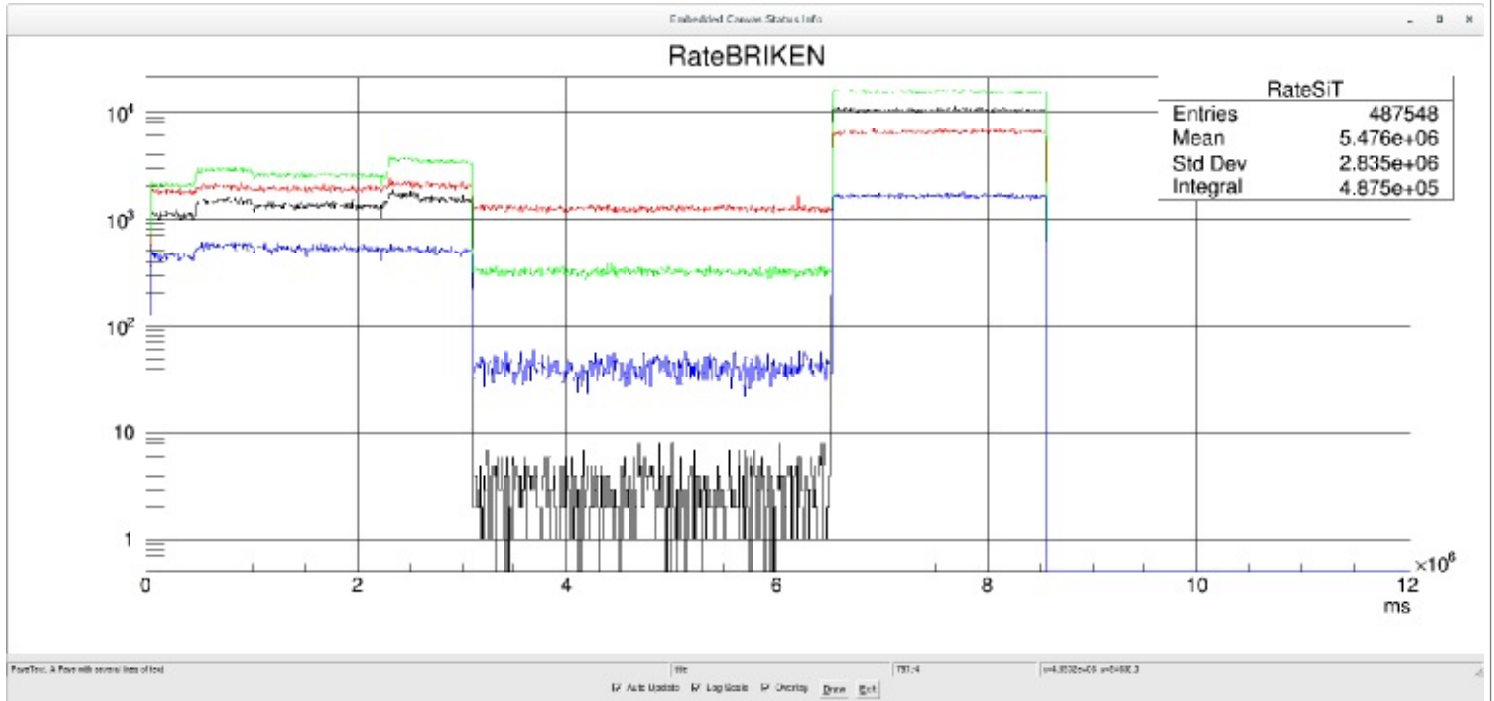
BigRIPS RUN : 1095 (Stopped at 04:35 because of BigRips error)

Attachment 1: [SyncCheckScreen20161130\\_0159.png](#)





Attachment 2: 161130\_0407rates.png

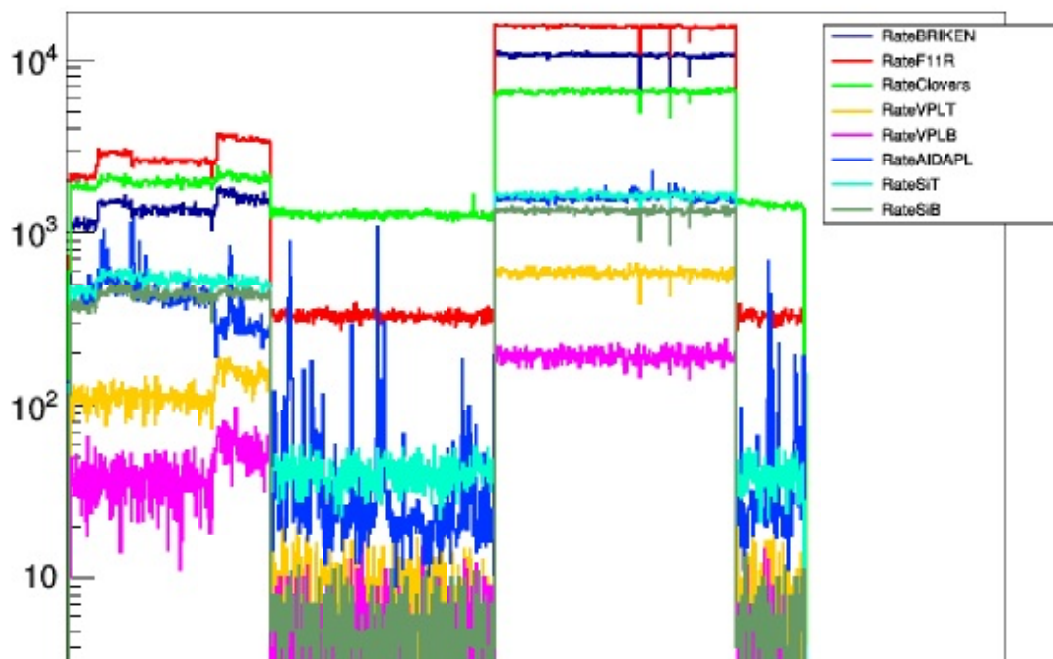


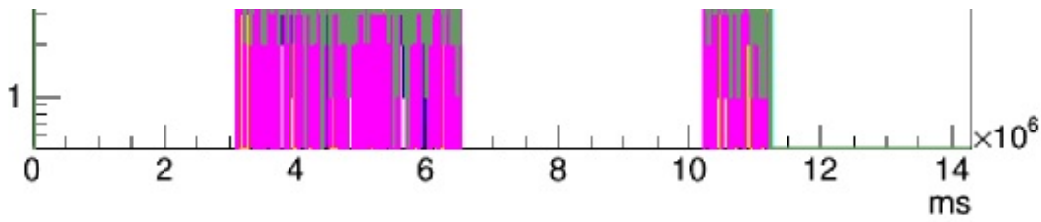
Attachment 3: SyncCheckScreen20161130\_0432.png

SyncCheckScreen20161130\_0432.png

Attachment 4: 161129\_0146\_164\_0451\_Rates.png

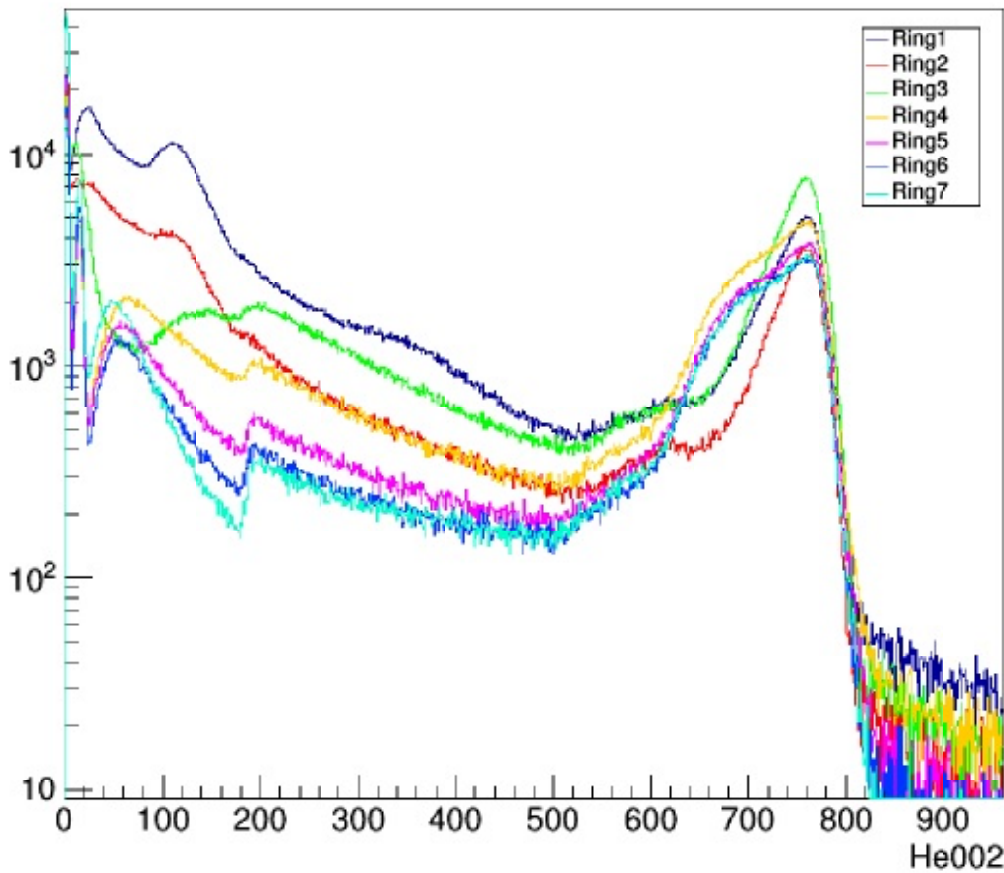
### 161129\_0146\_164\_0451.root: Rates



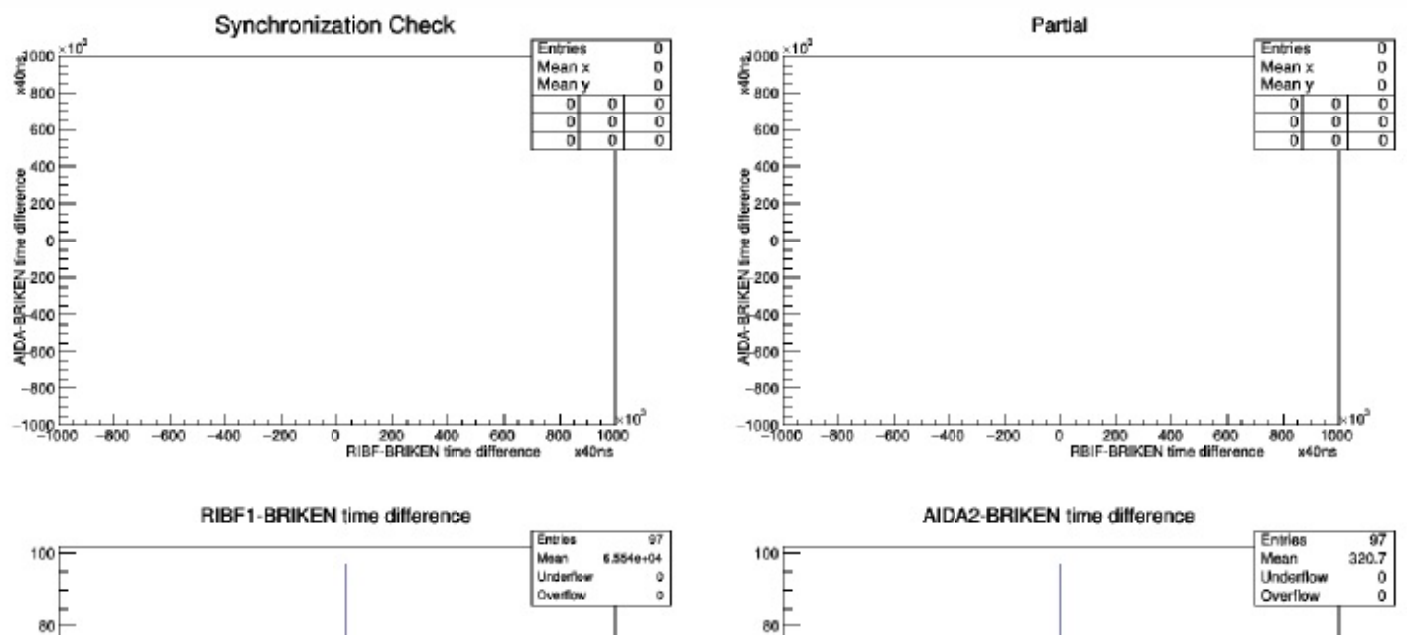


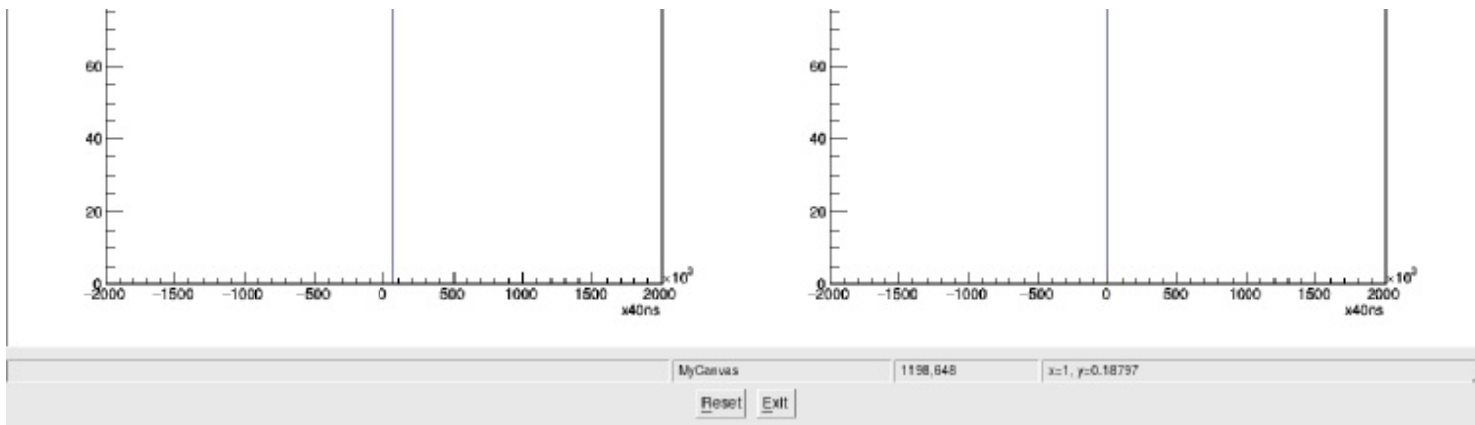
Attachment 5: 161129\_0146\_164\_0451\_Rings.png

### 161129\_0146\_164\_0451.root: Rings



Attachment 6: SyncCheckScreen20161130\_0558.png





223	Wed Nov 30 00:46:34 2016	BRIKEN collaboration	Gamma calibration		RUN   Detector   BRIKEN	160-161	Sources: 60Co, 22Na, 241Am.		
-----	--------------------------	----------------------	-------------------	--	-------------------------	---------	-----------------------------	--	--

```

===== START =====
Date 2016/11/30
Start time      : 00:30
BRIKEN run     : 160
Daq Conf. File : 161129_1926_Conf BrikenFull.xlsx
DLT File name  : 161130_0030_Cs_160.dlt
  
```

```

===== END =====
Date 2016/11/30
BRIKEN run     : 160
BRIKEN stop   : 00:38
ROOT online    : 161130_0030_Cs_160_0038.root
  
```

Clover gamma calibration. Sources: 60Co, 22Na, 241Am.

222	Tue Nov 29 20:06:28 2016	BRIKEN collaboration	run		RUN   BRIKEN	155-159			
-----	--------------------------	----------------------	-----	--	--------------	---------	--	--	--

```

===== START =====
Date 2016/11/29
Start time      : 19:51
BRIKEN run     : 155
Daq Conf. File : 161129_1926_Conf_BrikenFull.xlsx
DLT File name  : 161129_1951
AIDA run      : R35_1
AIDA start    : 19:51
BigRIPS run   : 1084
BigRIPS start : 19:03

```

```

-----
Shifters: AT&AT TD PV LIU RG
===== Setup =====
Central fragment: 41Al @F8
--- Degraders ---
Fixed: 8 mm Al to the front of the PE Shielding between Musics chambers.
Variable:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. OUT
2. IN
3. IN

```

```

===== COMMENTS =====
19:20 Clover G7Red has been fixed, DC voltage cable connected (previously was not)
      New conf file with modified thresholds for D4Black and D4Blue, F11R and F11L.
19:48 TS reset checked SyncCheckScreen20161129_1950.png
      From here, a file is generated by the GUI_DAQ with information of the TimeStamp.
      The name of the file is: LogFile.txt. The information is displayed in this way:
          Send Sync Pulse:Tue Nov 29 2016 19:48:15

```

22:00 Checking Synchronization. We discussed about we are seeing. The time difference between BRIKEN-RIBF and AIDA-BRIKEN seems to be consistent but it varies along the time, so to do the correlations must be taken in care the position of the time on each run. (attached recent screenshot)

```

----- Rates -----
Rates at 22:12 (see screenshot attached):
RateBRIKEN      = 225.709 cps
RateF11R        = 408.128 cps
RateClovers     = 253.683 cps
RateVPLT        = 16.7996 cps
RateVPLB        = 5.14367 cps
RateAIDAPL      = 37.724 cps

```

```

Rates at 00:11 (see screenshot attached):
RateBRIKEN      = 221.266 cps
RateF11R        = 399.931 cps
RateClovers     = 256.674 cps
RateVPLT        = 16.5712 cps
RateVPLB        = 4.94008 cps
RateAIDAPL      = 35.2247 cps

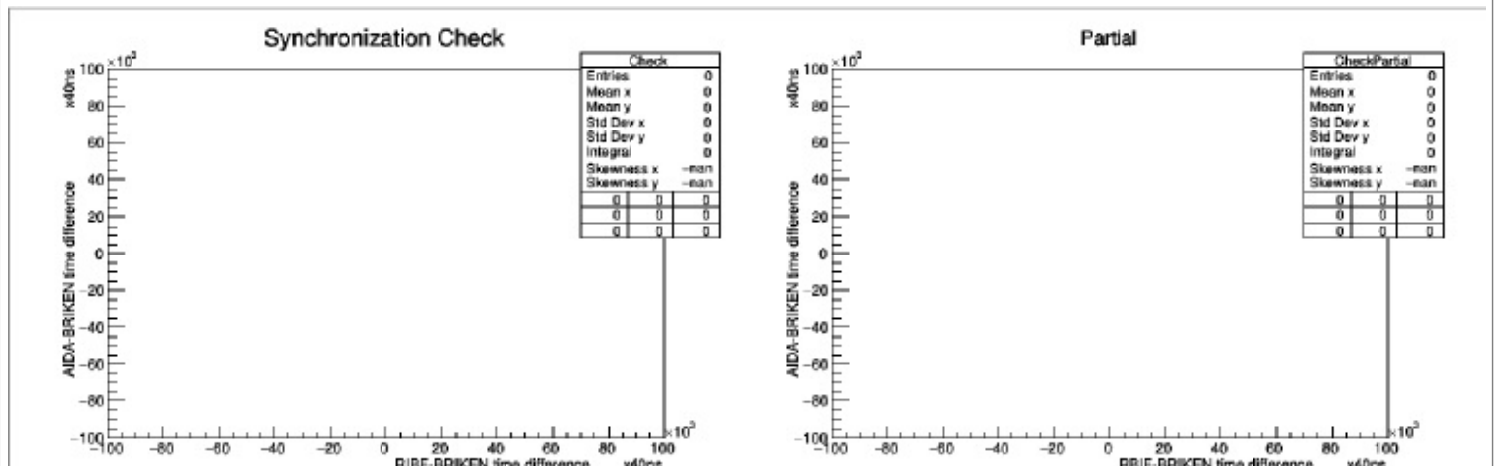
```

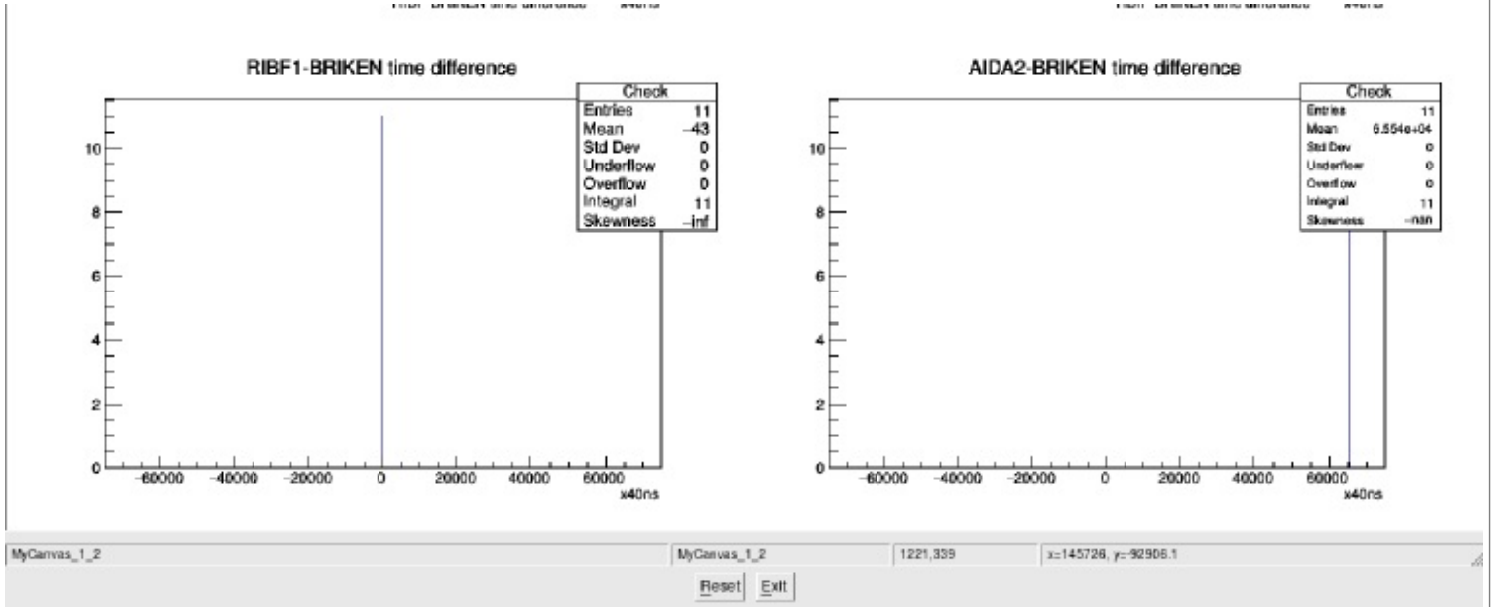
```

===== END =====
Date 2016/11/30
BRIKEN run     : 159
BRIKEN stop    : 00:11
ROOT online    : 161129_1951_155_159_0011.root
AIDA run       : 35 62
AIDA stop      : 00:11
BigRIPS RUN    : 1088

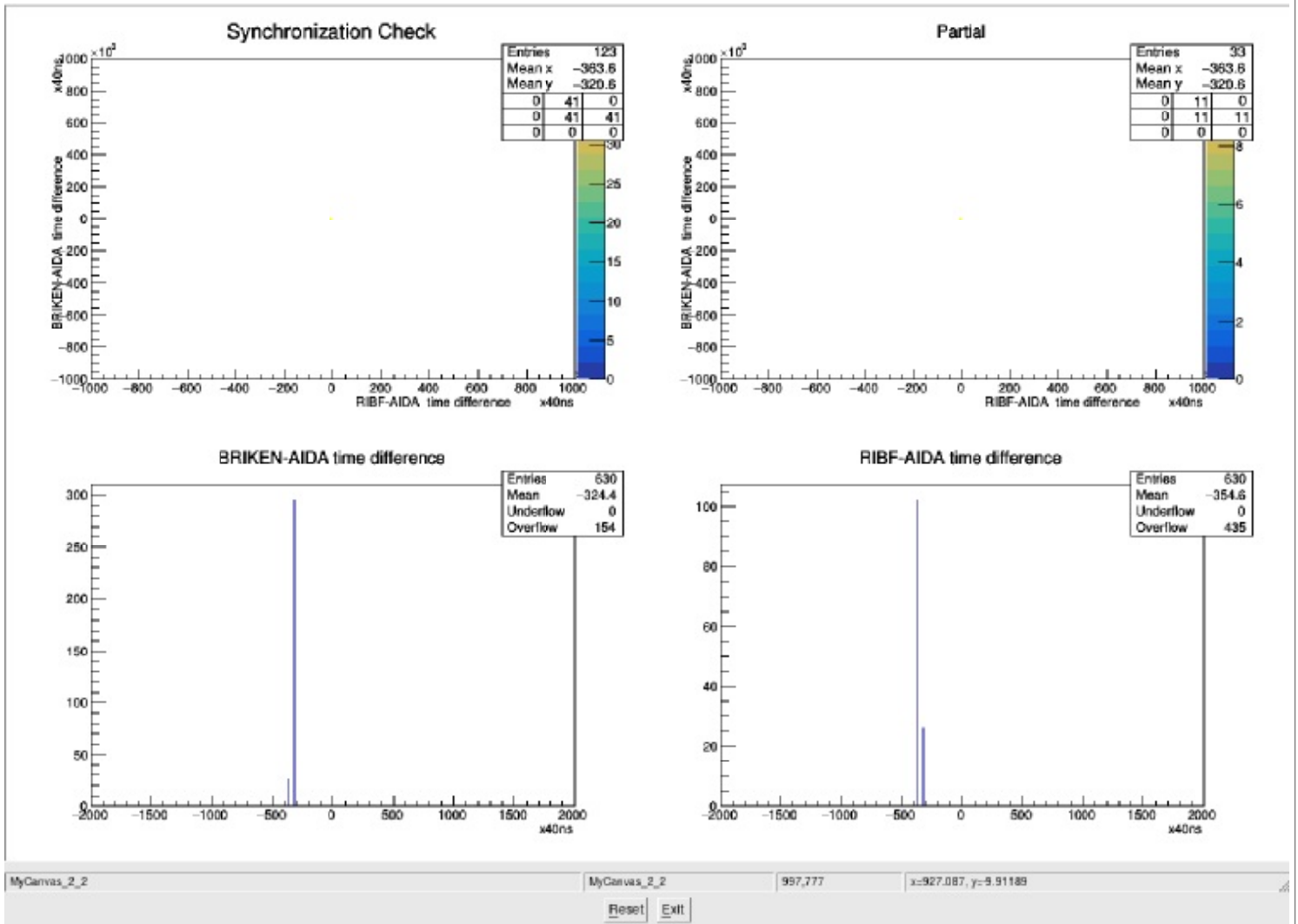
```

Attachment 1: [SyncCheckScreen20161129\\_1950.png](#)

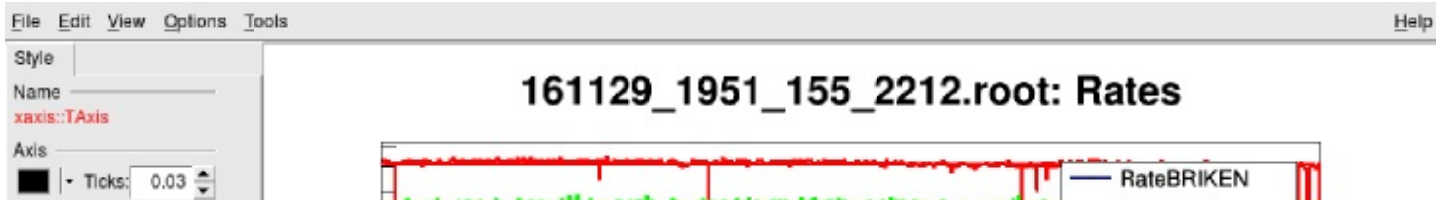




Attachment 2: SyncCheckScreen20161129\_2206.png

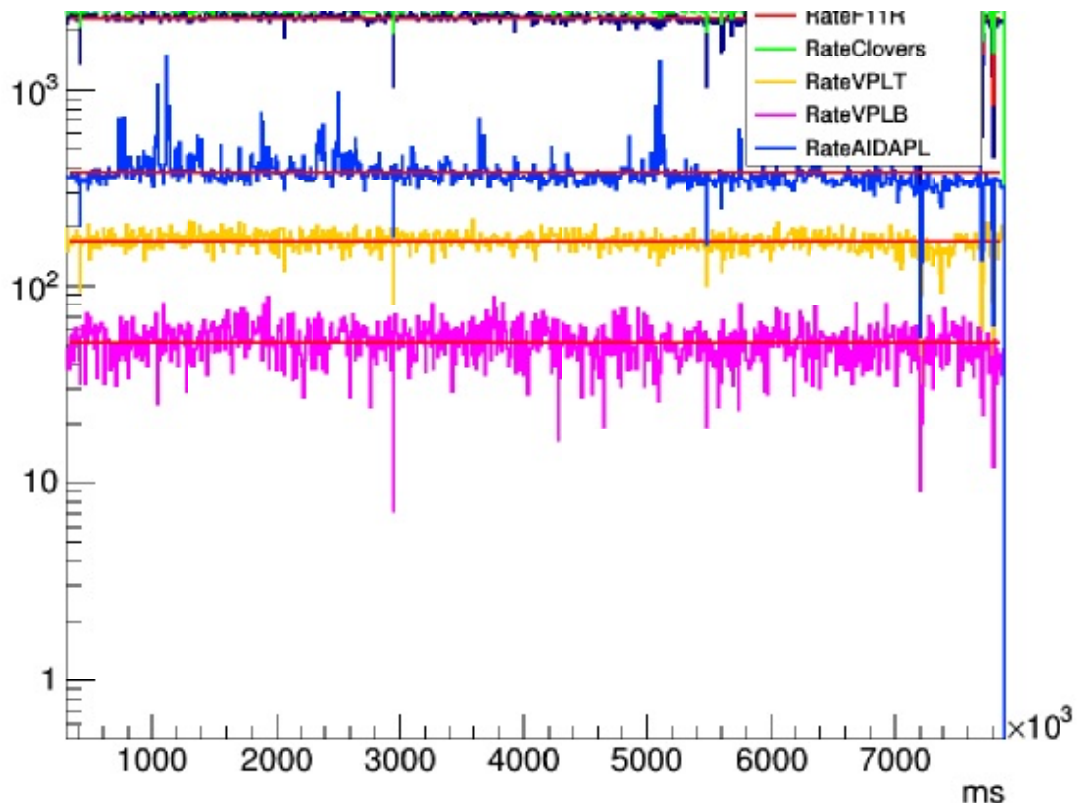


Attachment 3: SyncCheckScreen20161129\_2228.png





Log  Optimize  
 +  MoreLog  
0 5 10  
Title  
ms  
Size: 0.04  
4. helvetica  
 Centered Offset:  
 Rotated 1.00  
Labels  
Size: 0.04  
 NoExp 0.005  
4. helvetica  
 Decimal labels' part



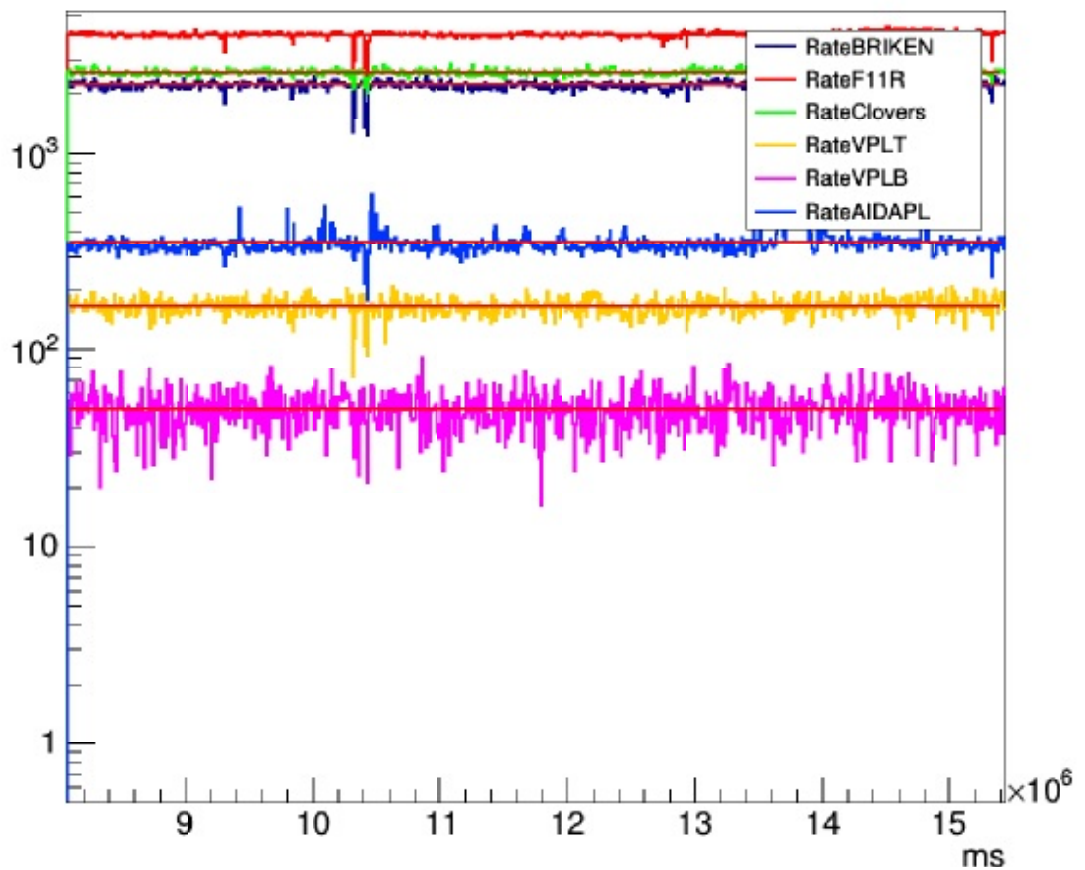
BRIKEN histograms C1 773,249 x=8.54066e+06, y=231.905

Attachment 4: SyncCheckScreen20161130\_0020.png

File Edit View Options Tools Help

Style  
Name  
xaxis: TAxis  
Axis  
Ticks: 0.03  
 Log  Optimize  
 +  MoreLog  
0 5 10  
Title  
ms  
Size: 0.04  
4. helvetica  
 Centered Offset:  
 Rotated 1.00  
Labels  
Size: 0.04  
 NoExp 0.005  
4. helvetica  
 Decimal labels' part

### 161129\_1951\_155\_159\_0011.root: Rates



BRIKEN histograms C1 782,325 x=1.61655e+07, y=62.6915

221	Tue Nov 29 19:40:47 2016	BRIKEN collaboration	New conf file	Configuration	DAQ   BRIKEN				
-----	--------------------------	-------------------------	---------------	---------------	-----------------	--	--	--	--

BRIKEN DAQ parameters  
Threshold of D4 clover, F11\_PL

Old parameters for G7 clover were ok.

D4 clover was noisier, so threshold was increased from 20 to 25 for D4Black crystal, and from 20 to 30 for D4Blue crystal.

Threshold for F11\_PL\_L and F11\_PL\_R was decrease from 80 to 60, for both channels.

These changes were saved as a new configuration file: 161129\_1926\_Conf\_BrikenFull.xlsx

Attachment 1: [161129\\_1926\\_Conf\\_BrikenFull.xlsx](#)

220	Tue Nov 29 19:08:39 2016	BRIKEN collaboration	Clovers	Problem Fixed	BRIKEN				
-----	--------------------------	-------------------------	---------	------------------	--------	--	--	--	--

At 18:30 we could access to F11 and check the G7 Red. The problem was found. The HV cable was not connected to the HV source. It was not checked due to the short time to install it in the morning.

Now we checked the signal and it works propely.

219	Tue Nov 29 19:06:14 2016	BRIKEN collaboration	DAQ	Other	DAQ   BRIKEN				
-----	--------------------------	-------------------------	-----	-------	-----------------	--	--	--	--

19:00 DAQ\_GUI updated to generate a file with information of TimeStamp reset (time of reset)

218	Tue Nov 29 10:36:15 2016	BRIKEN collaboration	run		RUN   BRIKEN	115-154			
-----	--------------------------	-------------------------	-----	--	-----------------	---------	--	--	--

```
===== START =====
Date 2016/11/29
Start time      : 10:35
BRIKEN run     : 115
Daq Conf. File : 161129_0329_Conf_BrikenFull.xlsx
DLT File name  : 161129_1036_115.dlt
AIDA run      : 34_16
AIDA start    : 10:30
BigRIPS run   : 1074
BigRIPS start : 10:32
```

-----  
Shifters: ATS, RCF, RG, GK, TD, AT

===== Setup =====

Central fragment: 41Al @F8

--- Degraders ---

Fixed: 8 mm Al to the front of the PE Shielding between Musics chambers.

Variable:

1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)

1. Out  
2. In  
3. In

===== COMMENTS =====

Before start this run the threshold on G7 Red was studied. We played with several values but finally decided to maintain the previous configuration because changing the threshold the shape of the spectra does not improve. The rate of G7 was too high. THE ONLINE LIVE TIME IS 65%!!  
Robert checked the PA output and seems ok. When we can enter again we'll check the cabling.

10:35: Before start file, Timestamp reset. AIDA was running.

11:05 Synchronization checked Ok

11:36 Checking the rates after 1h run, as shown in the attached png the clover rates are higher due to the threshold on G7 Red.

12:00 Synchronization checked peak on 0 for BRIKEN and at 2.6ms for AIDA

14:20 Synchronization checked. Still peak on 0 for BRIKEN and at 2.6ms for AIDA (png attached)

14:25 Rates after 4h run (14:26) are also attached. We decided to increase the threshold on G7 Red when changing the run to not reset the times in between.

15:00 Around 14:50 there was a beam off recovered in few minutes.

16:39 Synchronization equal as before

17:27 Now the synchronization has peaks in 0 for both systems and also at 2.6ms (see also screenshot in a png file attached).

18:25 Stopped to fill Ge.

----- Rates -----

At 14:26 after 4 hours run.

```
RateBRIKEN    = 141.645 cps
RateF11R      = 239.82 cps
RateClovers   = 16091.1 cps
RateVPLT      = 10.6366 cps
RateVPLB      = 3.23746 cps
RateAIDAPL    = 24.9191 cps
```

At 16:39 after 6 hours run.

```
RateBRIKEN    = 139.27 cps
RateF11R      = 235.787 cps
RateClovers   = 15971.5 cps
RateVPLT      = 10.4463 cps
RateVPLB      = 3.156 cps
```

RateVPLB = 3.156 cps  
 RateAIDAPL = 23.2078 cps

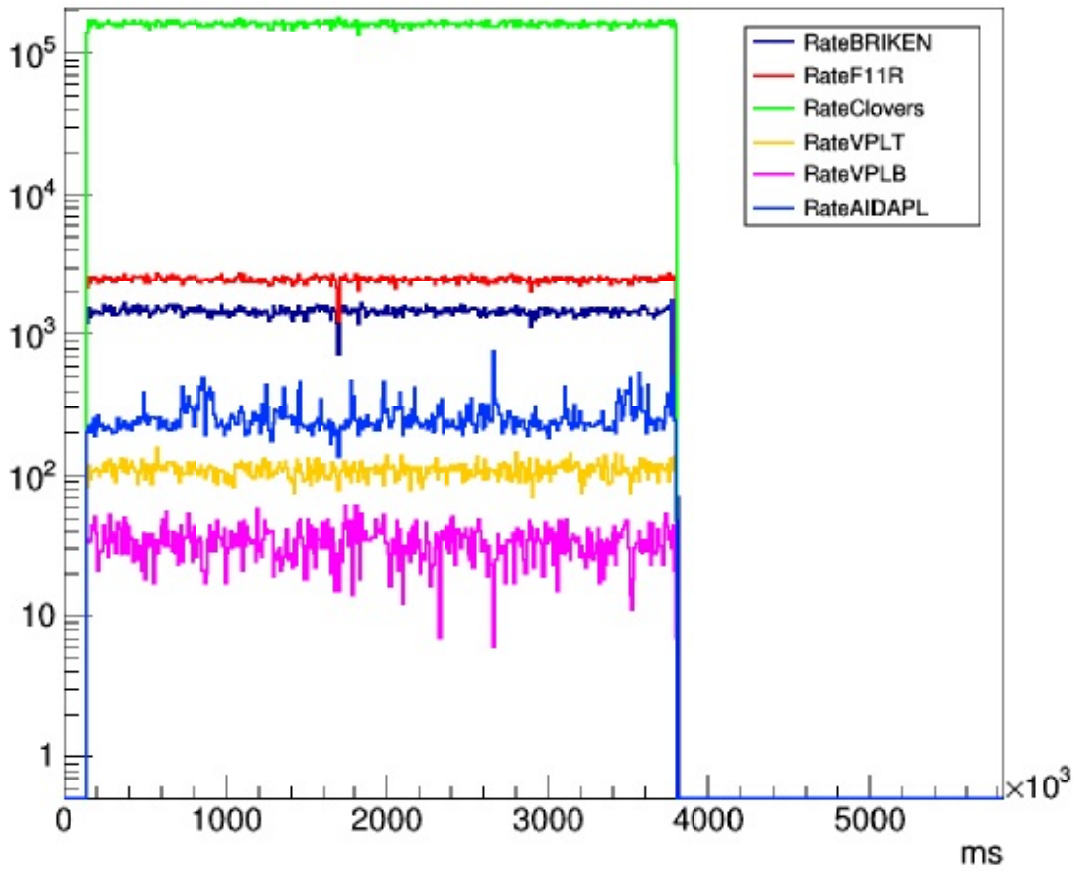
At the end of the run:  
 RateBRIKEN = 134.061 cps  
 RateF11R = 227.755 cps  
 RateClovers = 16150.4 cps  
 RateVPLT = 10.162 cps  
 RateVPLB = 3.01331 cps  
 RateAIDAPL = 22.2396 cps

```

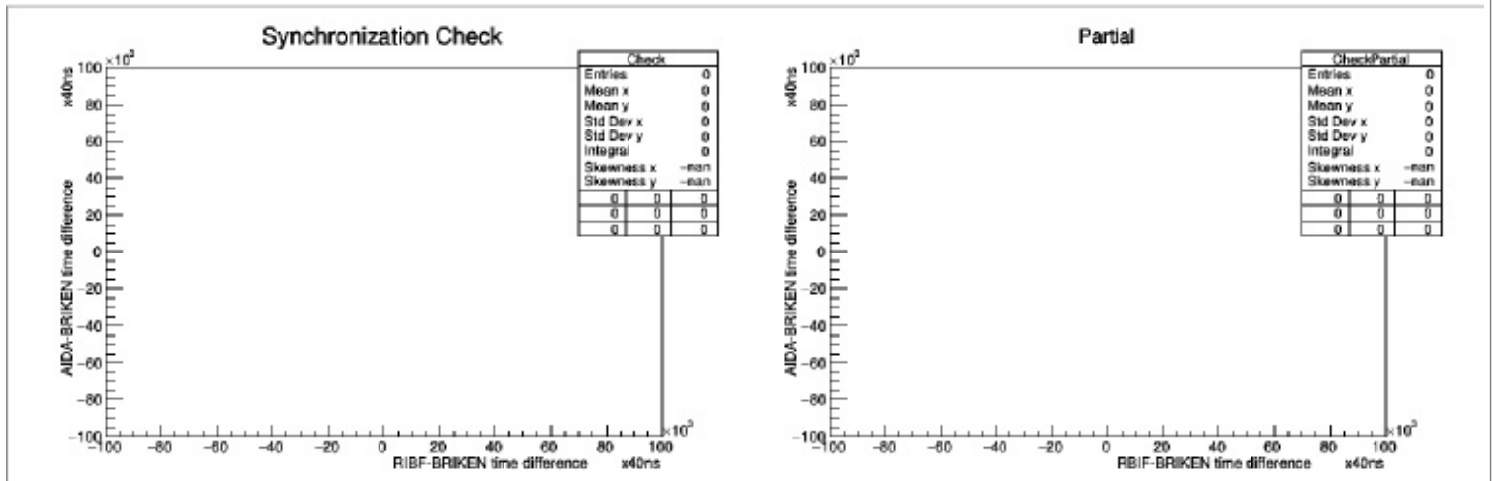
===== END =====
Date 2016/11/29
BRIKEN run      : 154
BRIKEN stop    : 18:25
ROOT online    : 161129_1036_115_154_1825.root
AIDA run       : 34 137
AIDA stop      : 18:26
BigRIPS RUN    : 1083
    
```

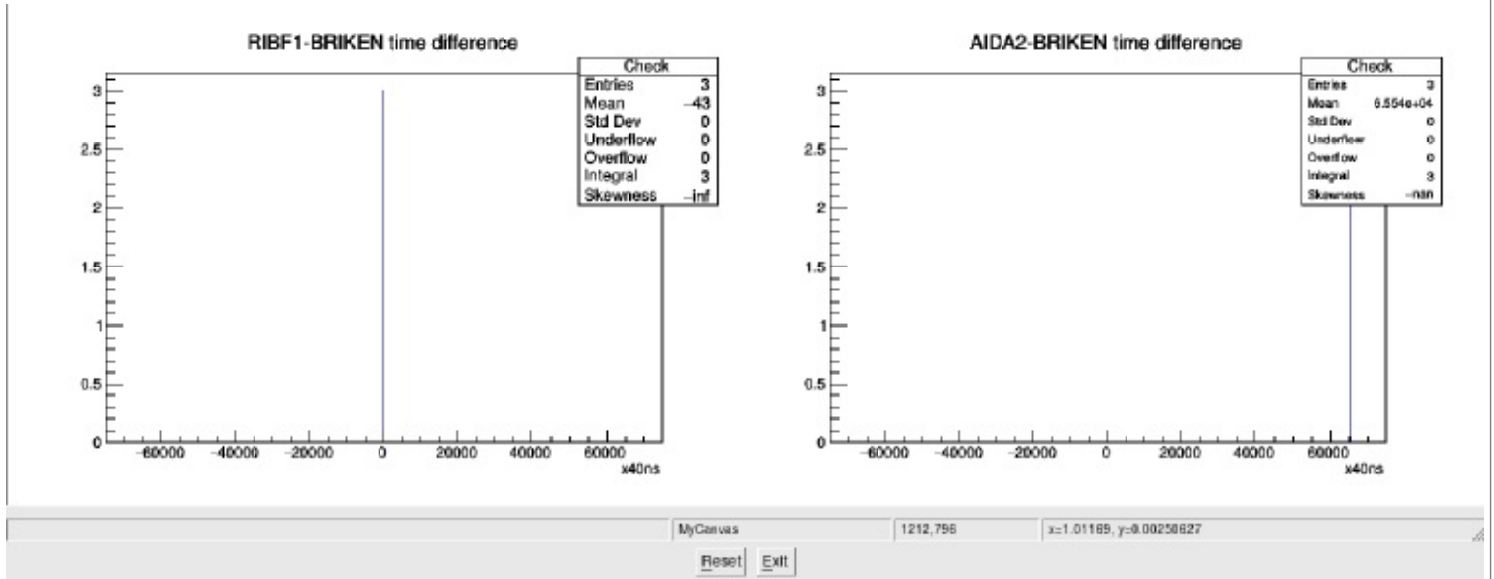
Attachment 1: [161129\\_1036\\_115\\_1136\\_Rates.png](#)

### 161129\_1036\_115\_1136.root: Rates

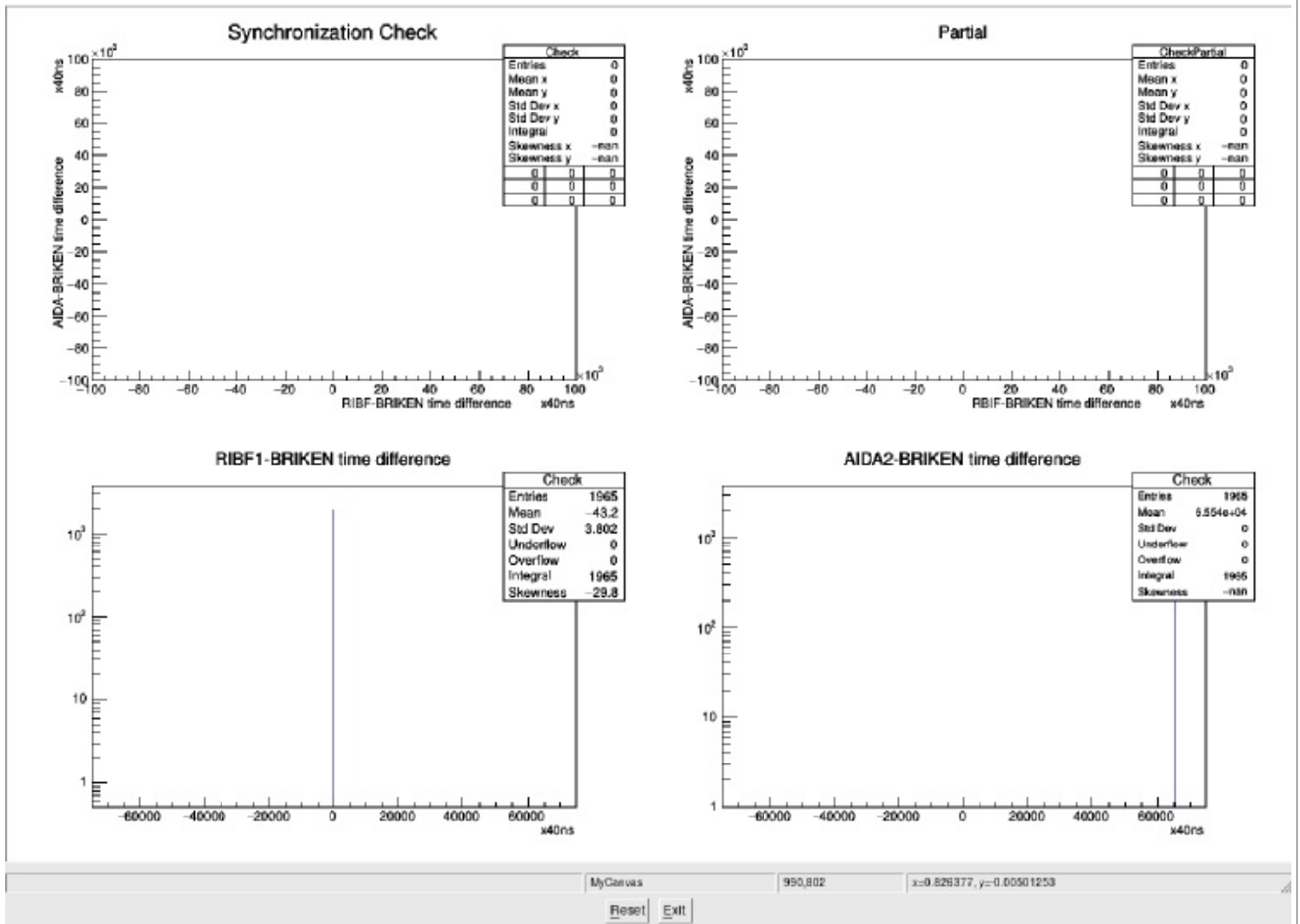


Attachment 2: [SyncCheckScreen20161129\\_1159.png](#)

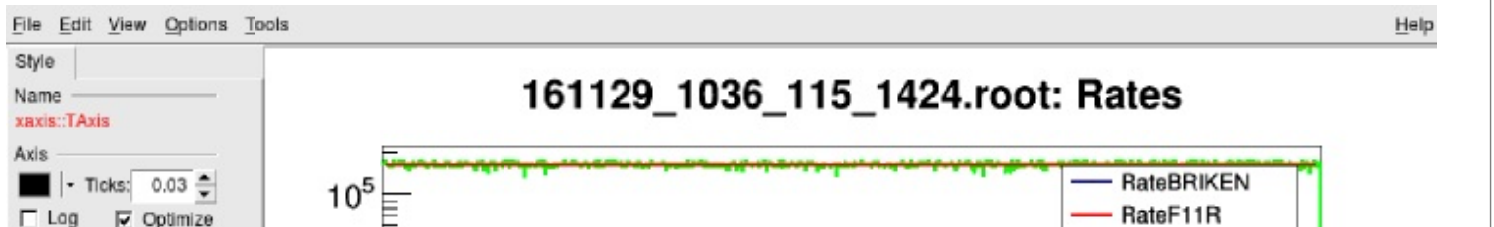




Attachment 3: SyncCheckScreen20161129\_1422.png



Attachment 4: SyncCheckScreen20161129\_1426.png



MoreLog

0 5 10

Title  
ms

Size: 0.04

4. helvetica

Centered Offset: 1.00

Rotated

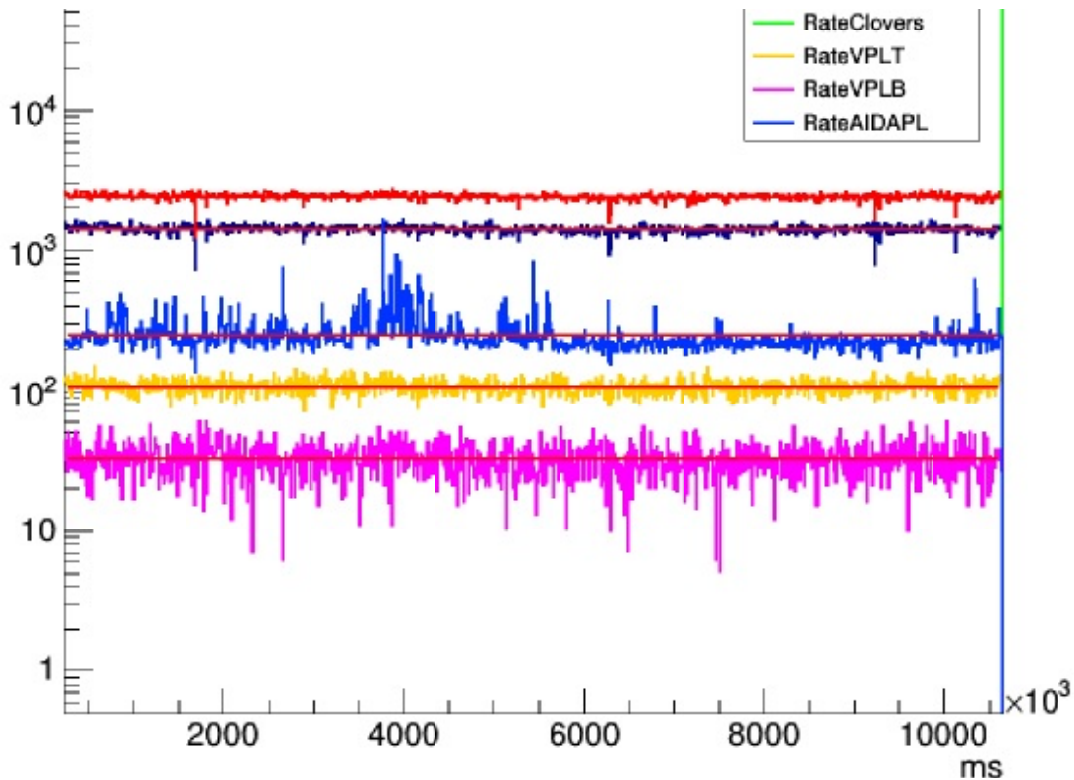
Labels

Size: 0.04

NoExp 0.005

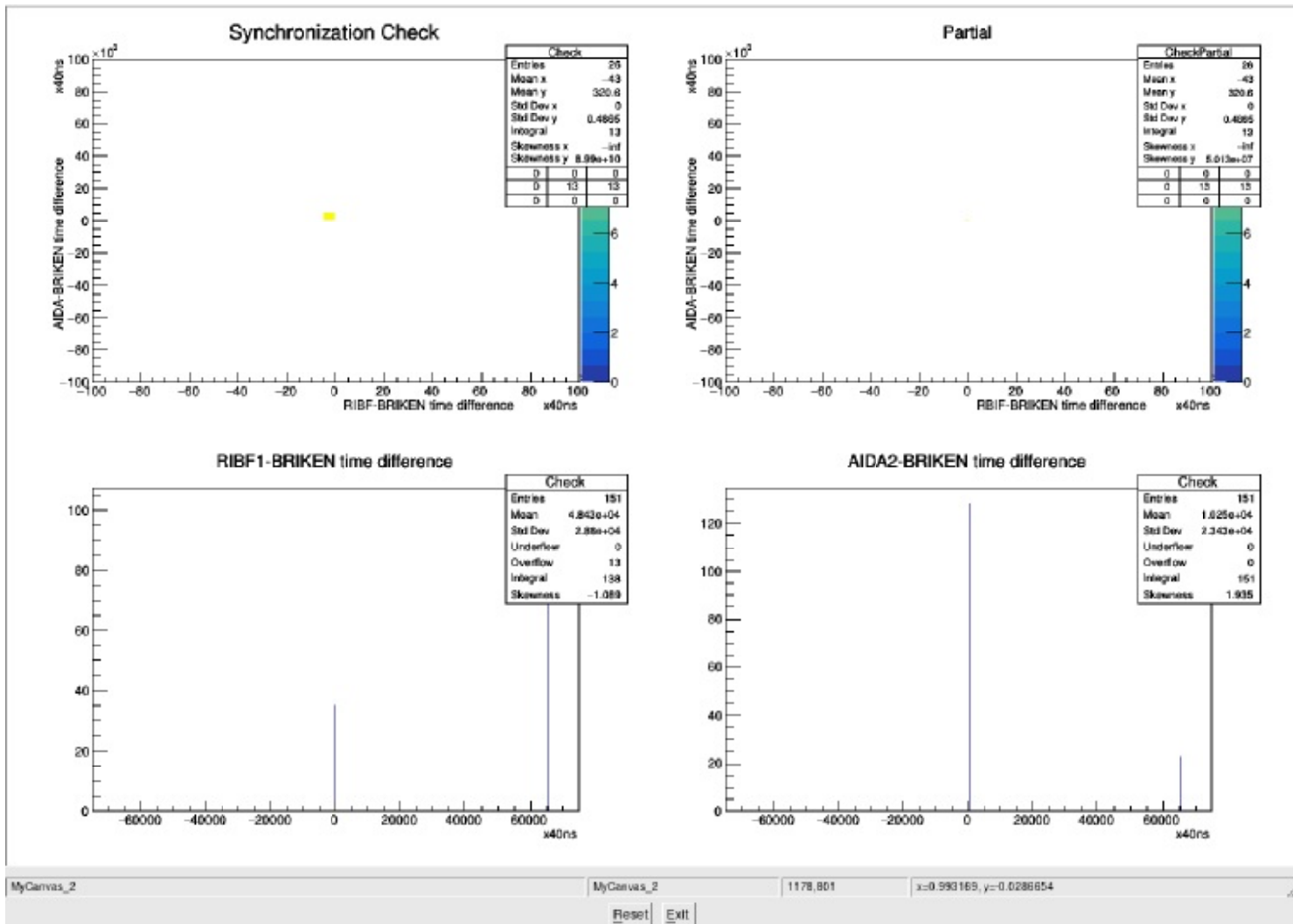
4. helvetica

Decimal labels' part

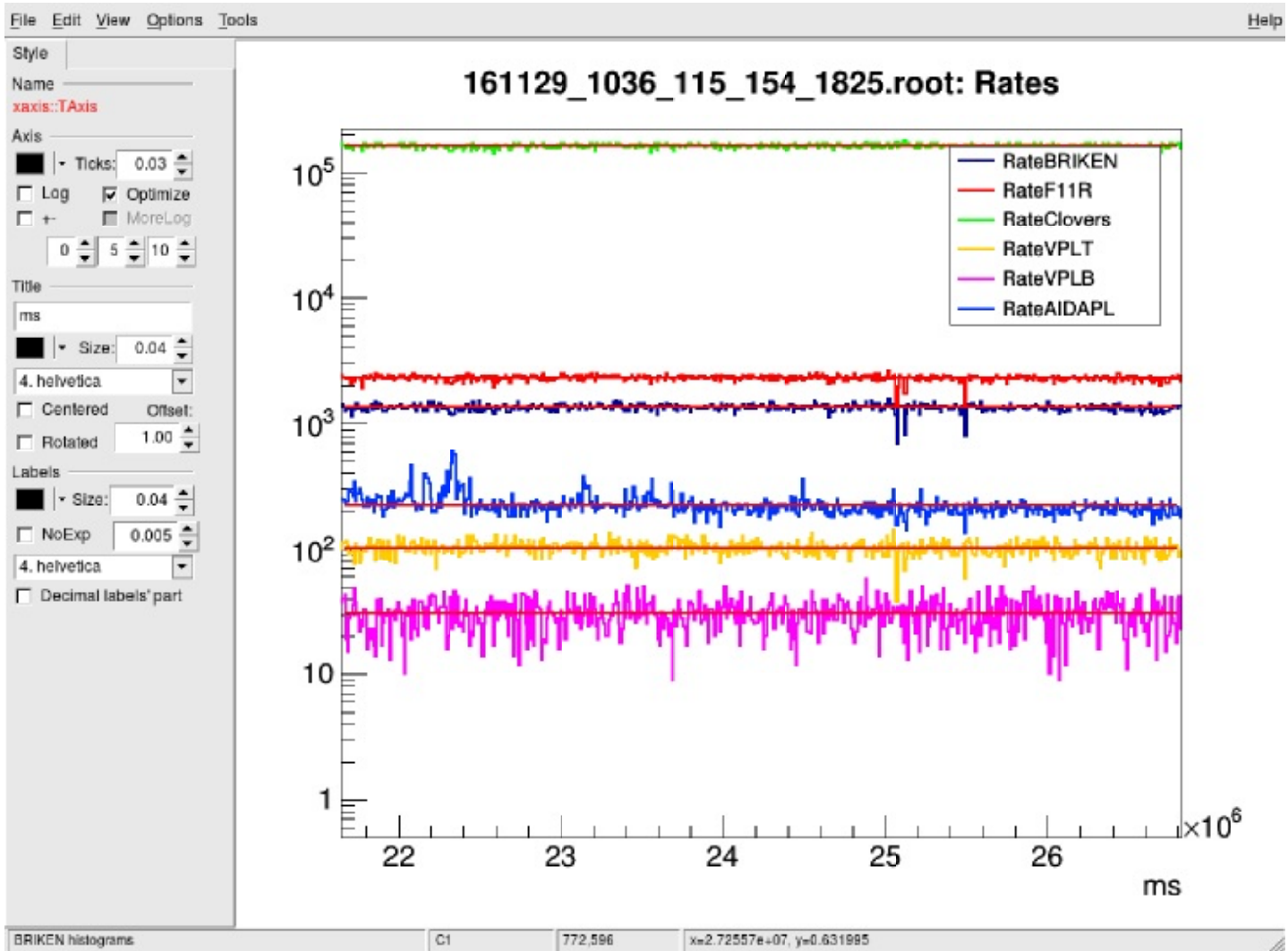


BRIKEN histograms C1 790,302 x=1.18208e+07, y=760.802

Attachment 5: SyncCheckScreen20161129\_1725.png



Attachment 5: SyncCheckScreen20161129\_1820.png



217	Tue Nov 29 09:51:22 2016	BRIKEN collaboration	run		RUN   BRIKEN	112-114			
-----	--------------------------	----------------------	-----	--	--------------	---------	--	--	--

```

===== START =====
Date 2016/11/29
Start time : 09:28
BRIKEN run : 112
Daq Conf. File : 161129_0326_Conf_BrikenFull.xlsx
DLT File name : 161129_0928_112.dlt
AIDA run : 34 00
AIDA start : 09:28
BigRIPS run : 1073
BigRIPS start : 09:27

```

```

-----
Shifters:
===== Setup =====
Central fragment: 41Al @F8
--- Degraders ---
Fixed: 8 mm Al to the front of the PE Shielding between Musics chambers.
Variable:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. Out
2. In
3. In
Comment in Run summary "After stripper foil change"

```

```

===== COMMENTS =====
We observed that the threshold on G7 Red recently installed was extremely high. We stopped the run after 24
minutes of measuring in order to try

```

```

----- Rates -----
Current File: 161129_0928_114_0954.root

```

```

RateBRIKEN      = 208.831 cps
RateF11R        = 351.82 cps
RateClovers     = 22262.3 cps
RateVPLT        = 15.7507 cps
RateVPLB        = 4.68866 cps

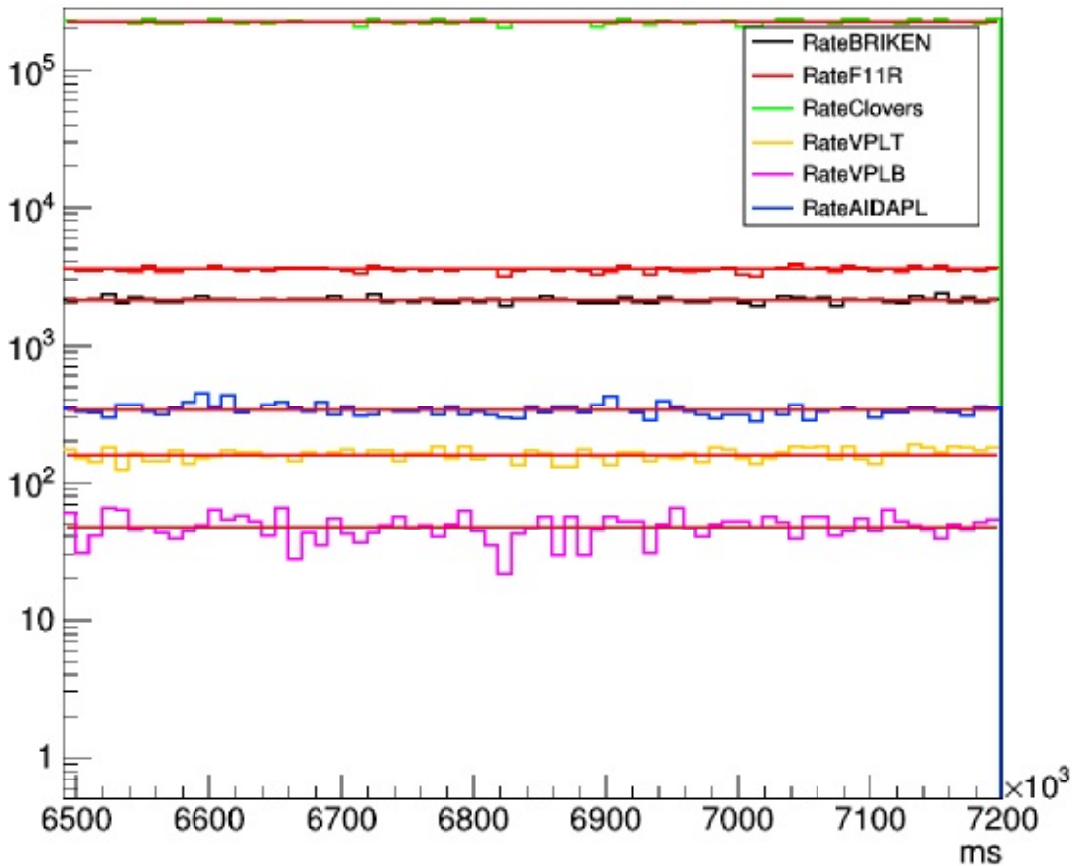
```

RateVPLB = 4.68866 cps  
 RateAIDAPL = 33.2816 cps

=====  
 END  
 Date 2016/11/29  
 BRIKEN run : 114  
 BRIKEN stop : 09:52  
 ROOT onLine : 161129\_0928\_114\_0954.root  
 AIDA run : 34 05  
 AIDA stop : 09:56  
 BigRIPS RUN : 1073

Attachment 1: [161129\\_0928\\_112\\_114\\_0954\\_Rates.png](#)

## 161129\_0928\_114\_0954.root: Rates



216	Tue Nov 29 07:15:58 2016	BRIKEN collaboration	run		RUN   BRIKEN	108-111			
-----	--------------------------	-------------------------	-----	--	-----------------	---------	--	--	--

=====  
 START  
 Date 2016/11/29  
 Start time : 07:53  
 BRIKEN run : 108  
 Daq Conf. File : 161129\_0326\_Conf\_BrikenFull.xlsx  
 DLT File name : 161122\_0753  
 AIDA run : R33\_0  
 AIDA start : 07:49  
 BigRIPS run : 1071  
 BigRIPS start : 07:33

-----  
 Shifters: AT, CG, RCF  
 ===== Setup =====  
 Central fragment: 41Al @F8  
 --- Degraders ---  
 Fixed: 8 mm Al to the front of the PE Shielding between Musics chambers.  
 Variable:  
 1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)  
 1. OUT  
 2. IN  
 3. IN

=====  
 COMMENTS  
 07:13 Send reset timeStamp  
 07:20 Synchronization checked! Saved SyncCheckScreen20161129\_0720.png  
 Acquisition started.  
 07:23 LN2 refilled manually in Clover G7.  
 07:25 AIDA Crushed, run 107 corrupted! Still 10min to get ready

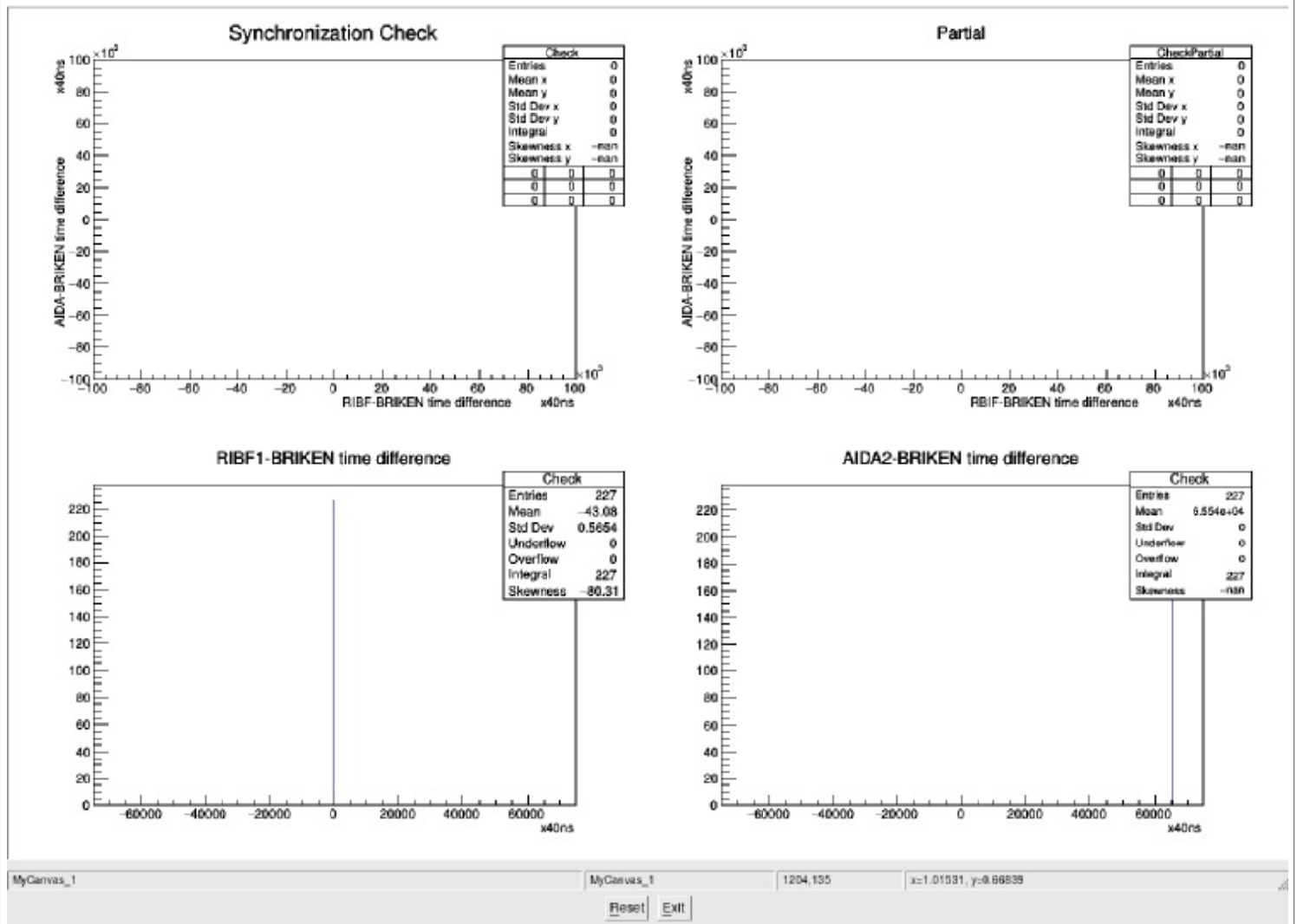
12/03/16 http://ribf-exp.riken.jp/elog/RIBF123/page?mode=full #46  
 07:25 AIDA Crushed, run 107 corrupted! Still 10min to get ready  
 07:51 AIDA ready, reset TS. Sync chequed. Ready to start.  
 08:01 Synchronization checked! Saved SyncCheckScreen20161129\_0801.png  
 09:16 Stop RUN - They are installing the clover in again.

----- Rates -----  
 Current File: 161129\_0916\_111.root

RateBRIKEN = 187.757 cps  
 RateF11R = 377.138 cps  
 RateClovers = 106.431 cps  
 RateVPLT = 16.7666 cps  
 RateVPLB = 5.0146 cps  
 RateAIDAPL = 38.0989 cps

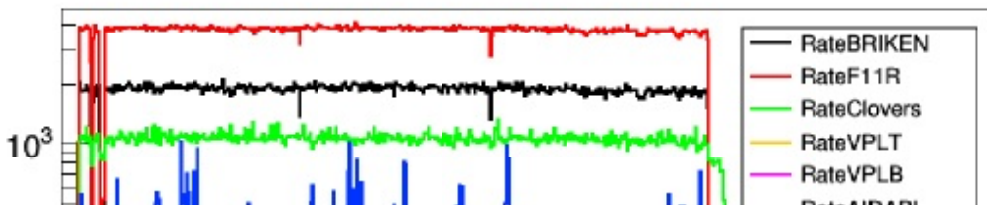
===== END =====  
 Date 2016/11/29  
 BRIKEN run : 111  
 BRIKEN stop : 09:16  
 ROOT online : 161129\_0916\_111.root  
 AIDA run : 30 30  
 AIDA stop : 09:17  
 BigRIPS RUN : 1072

Attachment 1: SyncCheckScreen20161129\_0801.png

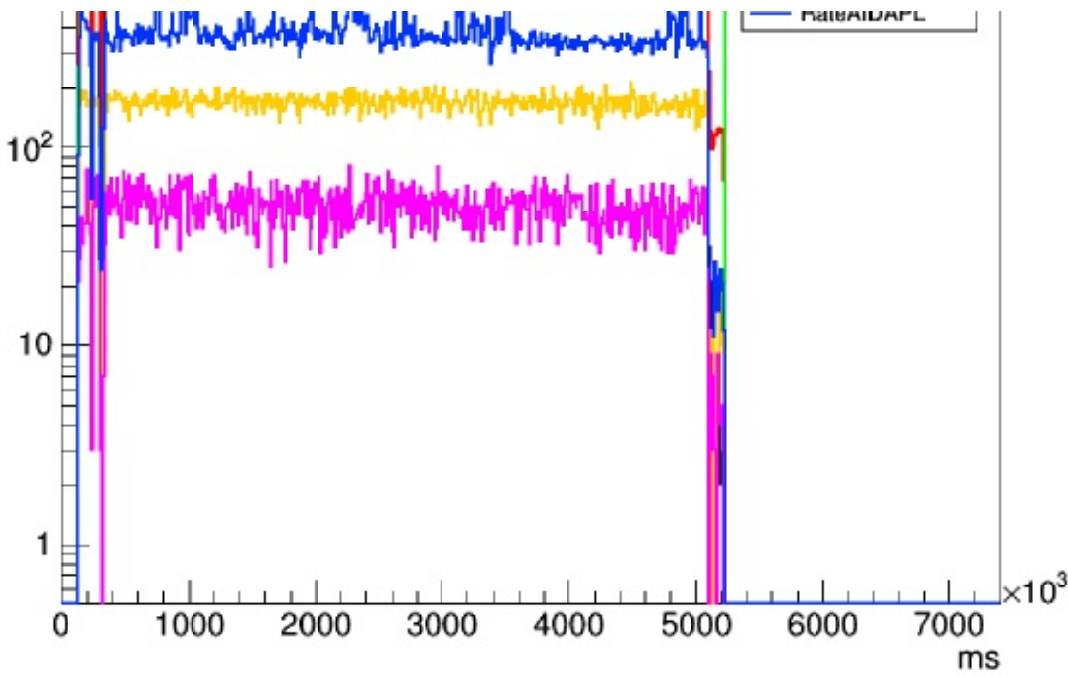


Attachment 2: 161129\_0916\_111\_Rates.png

## 161129\_0916\_111.root: Rates







215	Tue Nov 29 03:24:29 2016	BRIKEN collaboration	run	RUN   BRIKEN	099-106		
-----	--------------------------	----------------------	-----	--------------	---------	--	--

=====  
START  
=====

Date 2016/11/29  
 Start time : 03:25  
 BRIKEN run : 099  
 Daq Conf. File : 161128\_1944\_Conf\_BrikenFull.xlsx  
 DLT File name : 111629\_0325  
 AIDA run : R31\_0  
 AIDA start : 03:24  
 BigRIPS run : 1067  
 BigRIPS start : 03:22

-----  
Shifters: AT CG  
===== Setup =====

Central fragment: 41Al @F8  
 --- Degraders ---  
 Fixed: 8 mm Al to the front of the PE Shielding between Musics chambers.  
 Variable:  
 1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)  
 1. OUT  
 2. IN  
 3. IN

=====  
COMMENTS  
=====

03:20 Integration lower limit for AIDAPL has been increased up to 0.5 MeV. A new conf file (used during this run) has been saved.  
 03:47 SyncCheckScreen20161129\_0347.png Saved!  
 04:30 Saved SyncCheckScreen20161129\_0430.png and online 161129\_0325\_099\_0431.root!  
 06:07 SyncCheckScreen20161129\_0606.png Saved!  
 06:20 Acquisition stopped before LN2 refiling.

----- Rates -----

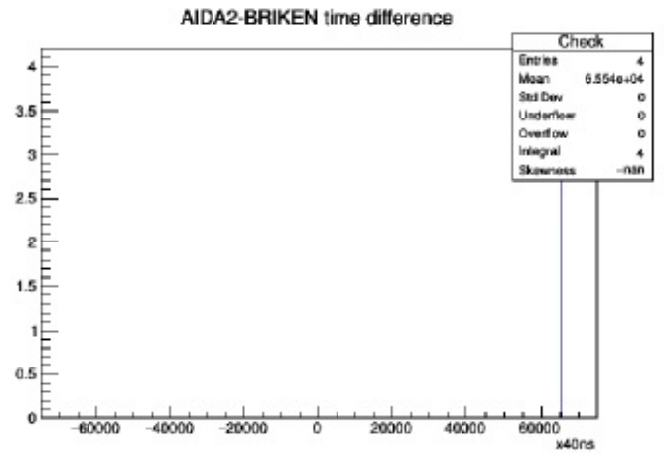
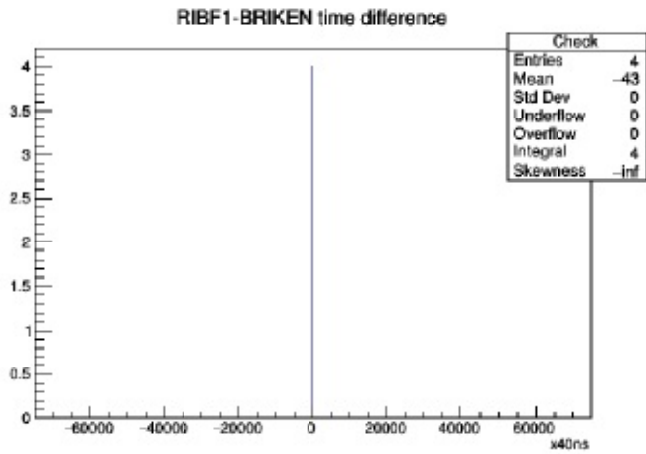
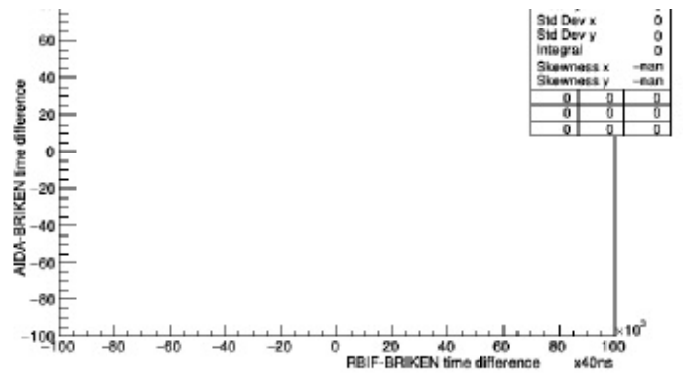
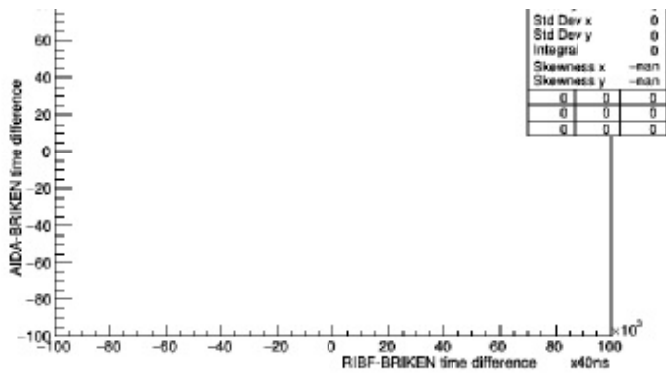
RateBRIKEN = 199.807 cps  
 RateF11R = 400.244 cps  
 RateClovers = 108.109 cps  
 RateVPLT = 17.6983 cps  
 RateVPLB = 5.58553 cps  
 RateAIDAPL = 43.5087 cps (baseline)

=====  
END  
=====

Date 2016/11/29  
 BRIKEN run : 106  
 BRIKEN stop : 06:20  
 ROOT online : 161129\_0325\_099\_0431.root, 161129\_0325\_099\_0608.root, 161129\_0325\_099\_0620.root  
 AIDA run : R31-55  
 AIDA stop : 06:21  
 BigRIPS RUN : 1069

Attachment 1: [SyncCheckScreen20161129\\_0347.png](#)

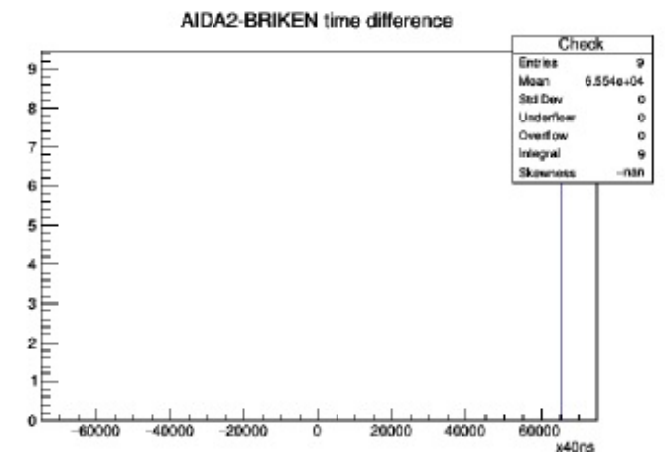
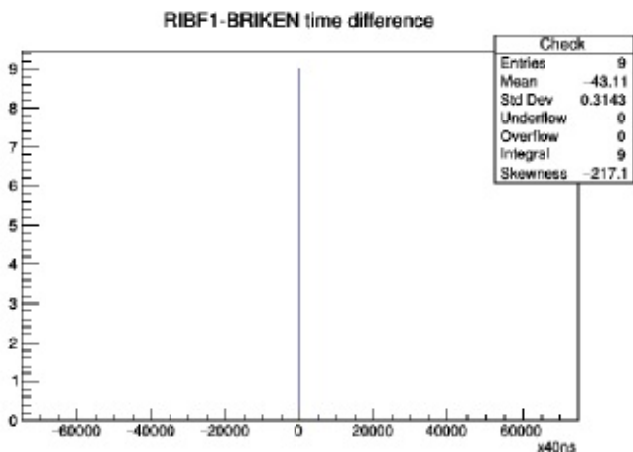
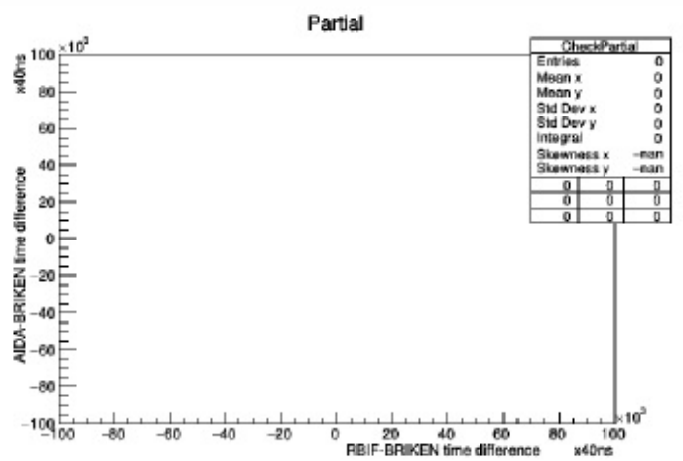
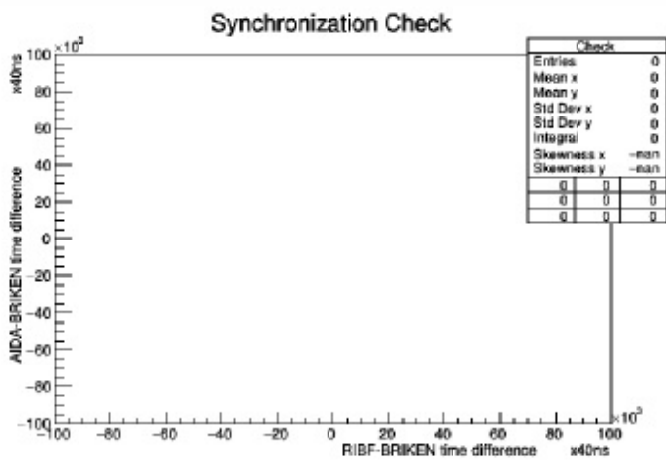




MyCanvas 1215.24 x:1.01419, y:0.989525

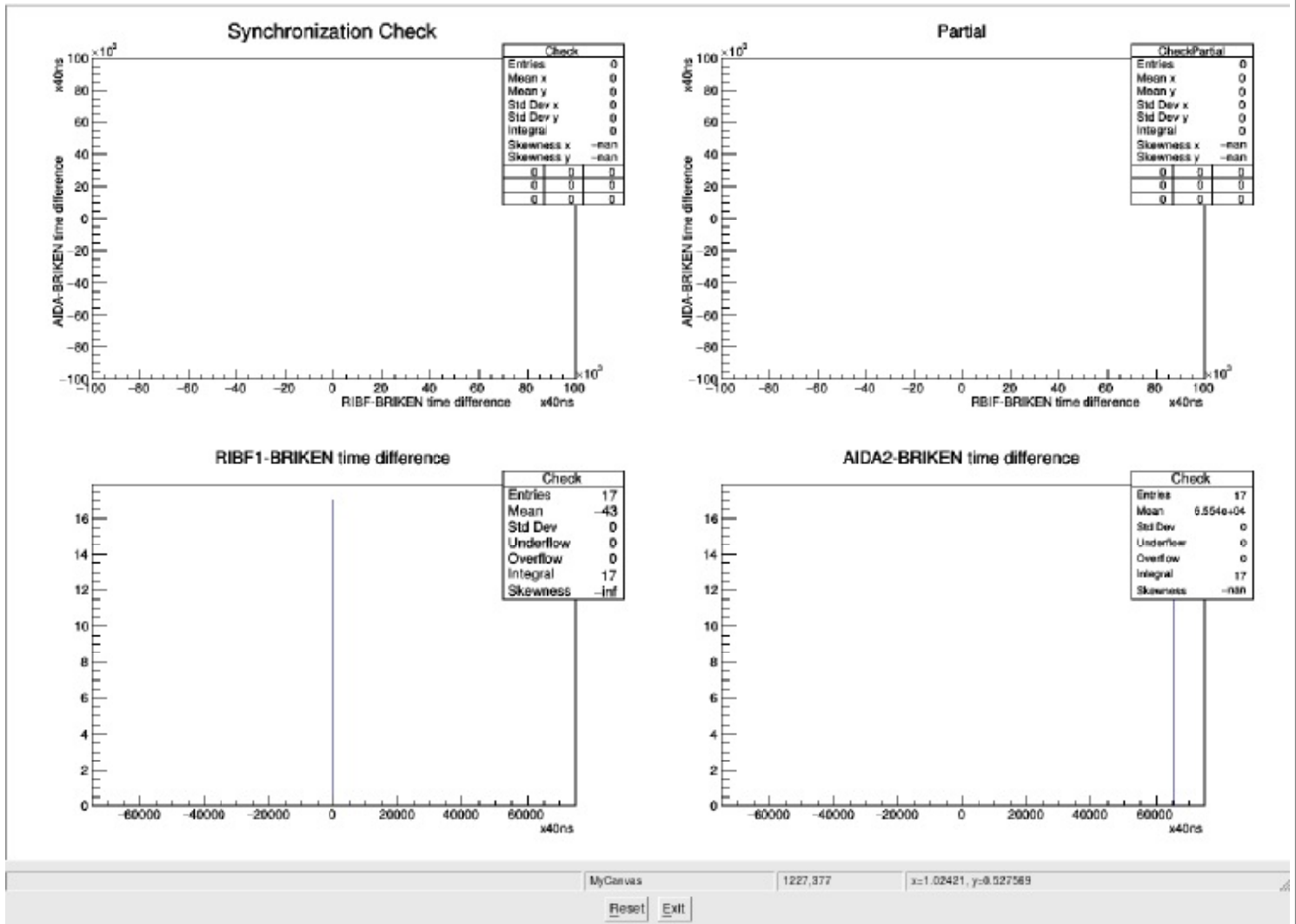
Reset Exit

Attachment 2: SyncCheckScreen20161129\_0430.png



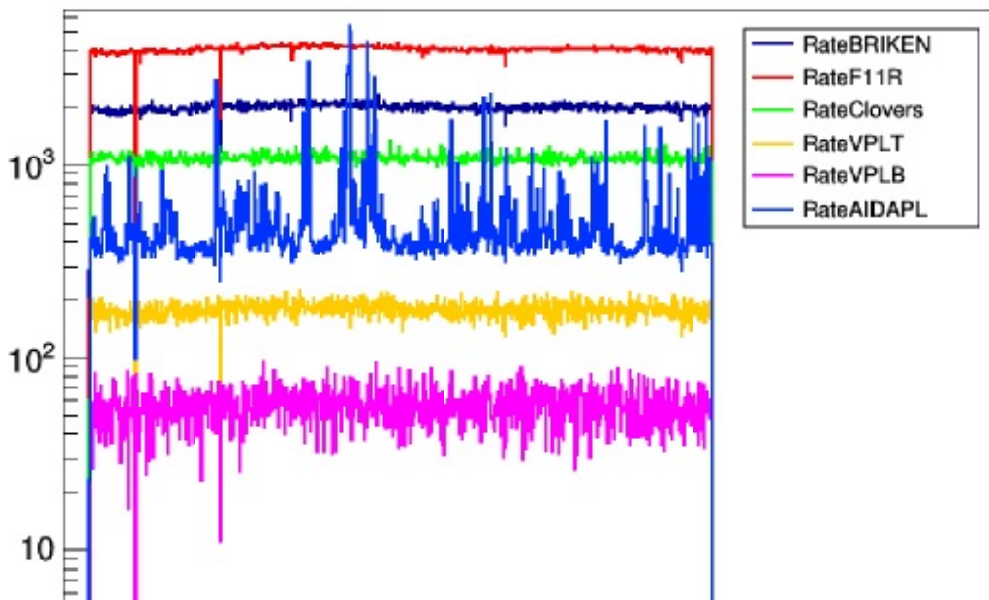


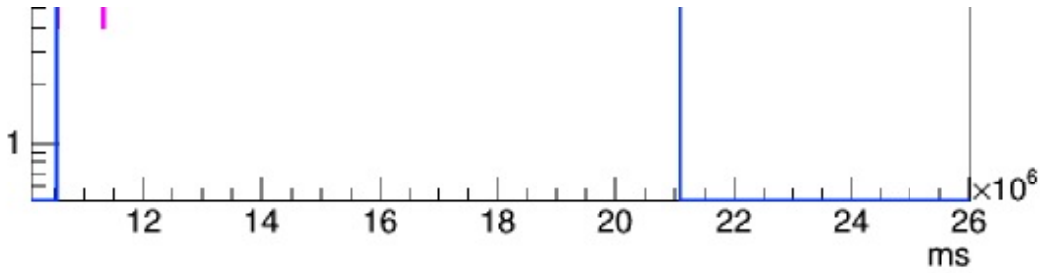
Attachment 3: SyncCheckScreen20161129\_0606.png



Attachment 4: 161129\_0325\_099\_0620\_Rates.png

### 161129\_0325\_099\_0620.root: Rates





214	Tue Nov 29 03:21:16 2016	BRIKEN collaboration	Conf file	Configuration	DAQ   BRIKEN				
-----	--------------------------	----------------------	-----------	---------------	--------------	--	--	--	--

03:20 Integration time for AIDAPL has been increased up to 0.5MeV. New configuration file is saved.

213	Tue Nov 29 00:48:32 2016	BRIKEN collaboration	run			092-098			
-----	--------------------------	----------------------	-----	--	--	---------	--	--	--

```

===== START =====
Date 2016/11/29
Start time      : 00:39
BRIKEN run     : 092
Daq Conf. File : 161128_1944_Conf_BrikenFull.xlsx
DLT File name  : 161129_0039
AIDA run      : R30_57
AIDA start    :
BigRIPS run   :
BigRIPS start :
  
```

```

-----
Shifters: AE, AT CG
===== Setup =====
Central fragment: 41Al @F8
--- Degraders ---
Fixed: 8 mm Al to the front of the PE Shielding between Musics chambers.
Variable:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. OUT
2. IN
3. IN
  
```

```

===== COMMENTS =====
01:45 Online saved!
02:51 Saved SyncCheck_161129_0251.png
03:04 Beam stop due to accelerator problem (LINAC RF down).
  
```

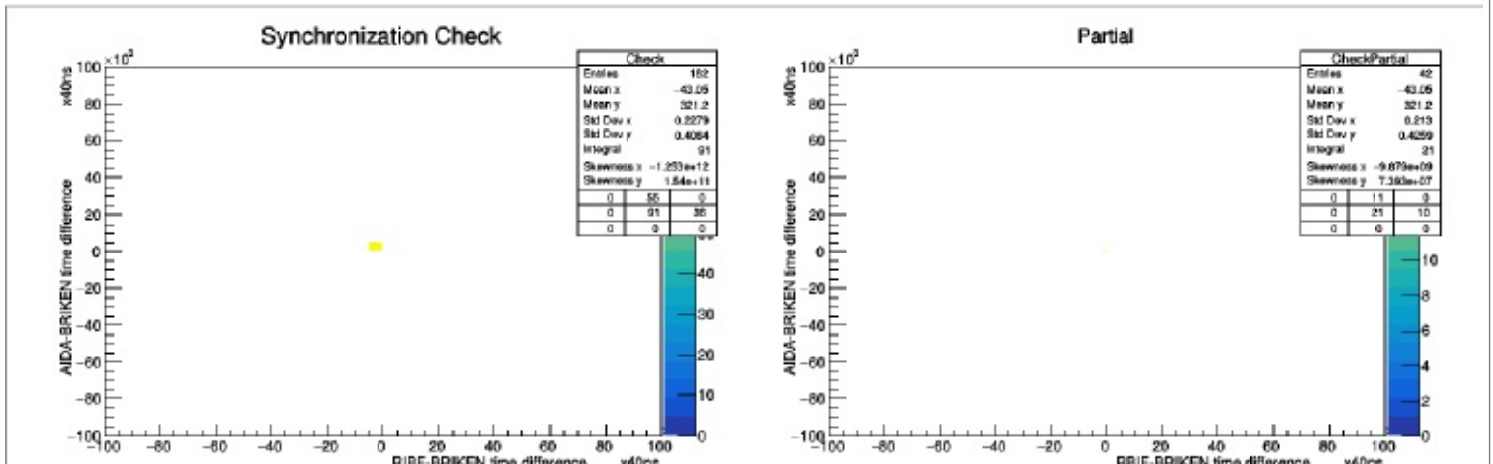
```

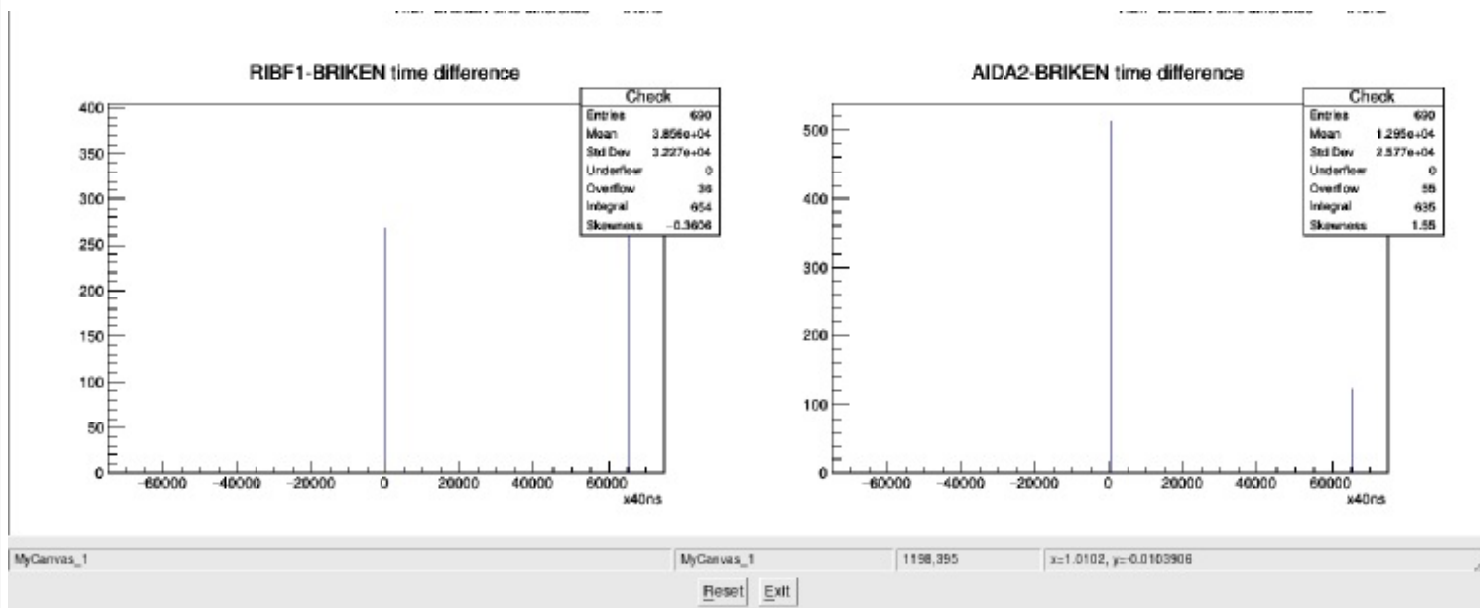
----- Rates -----
RateBRIKEN      = 201.128 cps
RateF11R       = 402.382 cps
RateClovers    = 109.296 cps
RateVPLT       = 17.7921 cps
RateVPLB       = 5.52538 cps
RateAIDAPL     = 38.7397 cps (baseLine)
  
```

```

===== END =====
Date 2016/11/28
BRIKEN run     : 098
BRIKEN stop    : 03:13
ROOT online    : 161129_0039_092_0145.root, 161129_0039_092_0314.root
AIDA run      : R30_93
AIDA stop     : 03:15
BigRIPS RUN   : 1066
  
```

Attachment 1: [SyncCheck\\_161129\\_0251.png](#)





212	Tue Nov 29 00:48:01 2016	BRIKEN collaboration	DAQ Synchronization	Remarks	DAQ			
-----	--------------------------	----------------------	---------------------	---------	-----	--	--	--

See note on state of DAQ synchronization in AIDA eelog entry: <https://eelog.ph.ed.ac.uk/AIDA/493>

211	Mon Nov 28 20:18:54 2016	BRIKEN collaboration	run		RUN   BRIKEN	080-090		
-----	--------------------------	----------------------	-----	--	--------------	---------	--	--

=====  
 START  
 =====

Date 2016/11/28  
 Start time : 20:07  
 BRIKEN run : 080  
 Daq Conf. File : 161128\_1944\_Conf\_BrikenFull.xlsx  
 DLT File name : 161128\_2007  
 AIDA run : R30\_1  
 AIDA start : 20:07  
 BigRIPS run : 1060  
 BigRIPS start : 20:06

-----  
 Shifters: AT&AT TD AE  
 =====  
 Setup  
 =====

Central fragment: 41Al @F8  
 --- Degraders ---  
 Fixed: 8 mm Al to the front of the PE Shielding between Musics chambers.

Variable:  
 1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)  
 1. OUT  
 2. IN  
 3. IN

=====  
 COMMENTS  
 =====

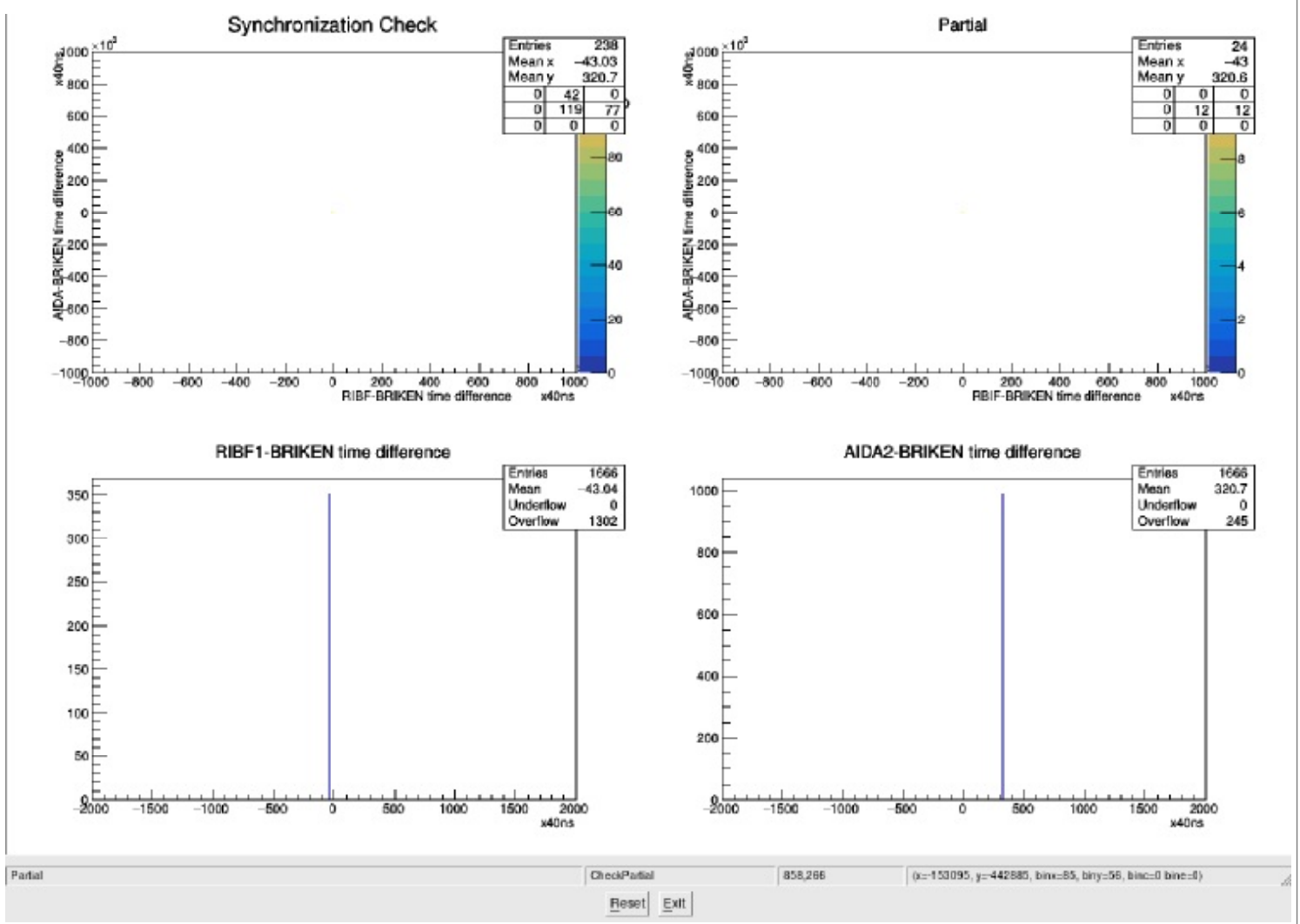
19:50 TimeStamp has been reset two times before this run.  
 Daq Conf File has been CHANGED!  
 Degradar configuration has been changed respect to the last run.  
 20:16 SyncCheck saved SyncCheck\_161128\_2016.png  
 00:00 The online might have been cleared by mistake at some point of this run!  
 00:10 RateAIDAPlastic present still spikes. Threshold has been changed, but integration lower limit should be increased!

----- Rates -----  
 RateBRIKEN = 205.761 cps  
 RateF11R = 412.129 cps  
 RateClovers = 108.862 cps  
 RateVPLT = 18.241 cps  
 RateVPLB = 5.74833 cps  
 RateAIDAPL = 39.1461 cps

=====  
 END  
 =====

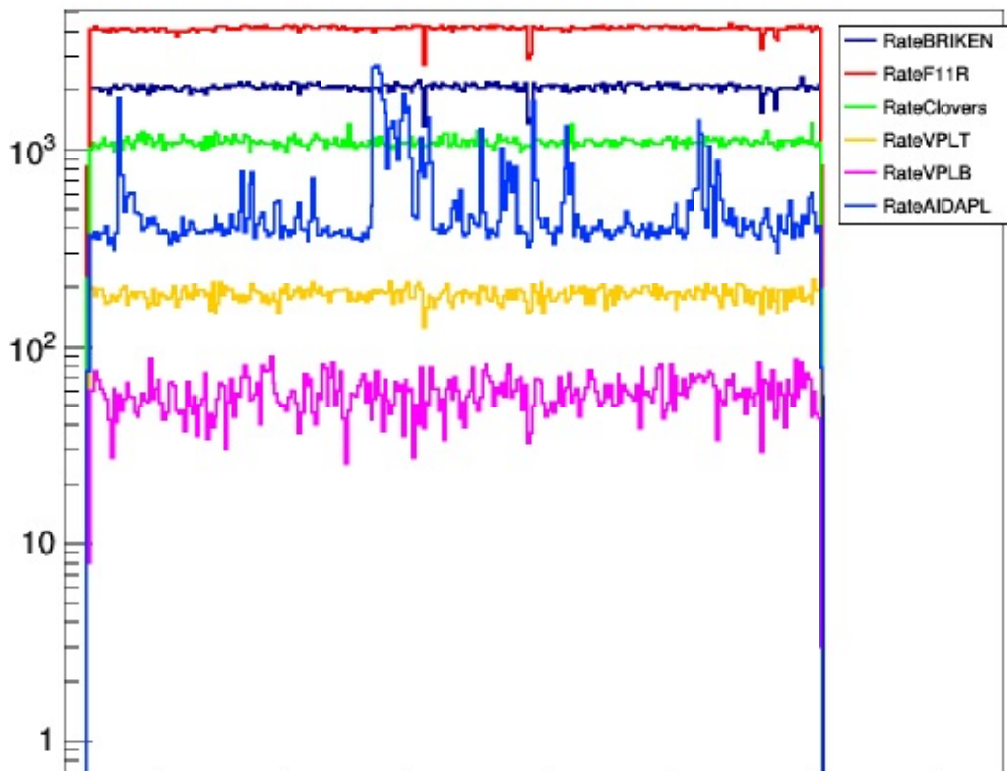
Date 2016/11/29  
 BRIKEN run : 090  
 BRIKEN stop : 00:24  
 ROOT online : 161128\_2007\_080.root  
 AIDA run : R30\_56  
 AIDA stop :  
 BigRIPS RUN : 1064

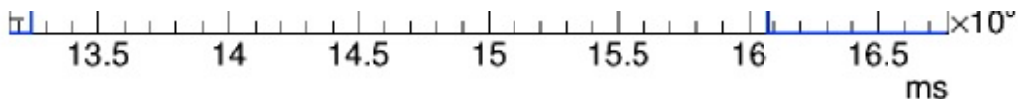
Attachment 1: [SyncCheck\\_161128\\_2016.png](#)



Attachment 2: 161128\_2007\_080\_Rates.png

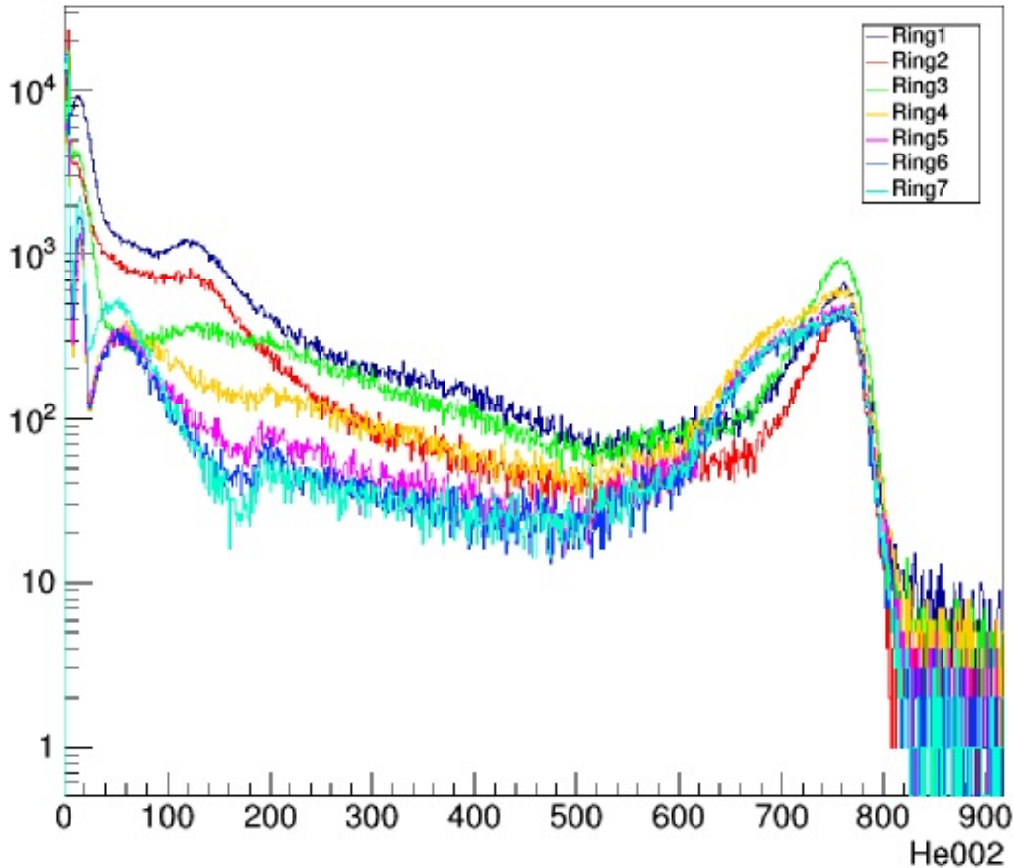
## 161128\_2007\_080.root: Rates





Attachment 3: [161128\\_2007\\_080\\_Rings.png](#)

### 161128\_2007\_080.root: Rings



210	Mon Nov 28 19:53:44 2016	<a href="#">BRIKEN collaboration</a>	Degrader	Configuration	<a href="#">Accelerator   BRIKEN</a>			
19:45 The degrader configuration has been changed. Fixed 3mm Pb has been removed. 8mm Al has been placed in the beam as a fixed degrader.								
209	Mon Nov 28 19:47:14 2016	<a href="#">BRIKEN collaboration</a>	New conf file	Configuration	<a href="#">DAQ   BRIKEN</a>			
Threshold for AIDAPL is increased a little bit to reduce deadtime in the online. New conf file is 161128_1944_Conf_BrikenFull.xlsx								
208	Mon Nov 28 15:04:43 2016	<a href="#">BRIKEN collaboration</a>	run			74-79	40Mg	

```

===== START =====
Date 2016/11/28
Start time      : 14:31
BRIKEN run     : 074
Daq Conf. File : 161128Conf_BrikenFull.xlsx
DLT File name  : 161128_1431
AIDA run       : R29-0
AIDA start     : 14:31
BigRIPS run    : 1054
BigRIPS start  : 14:29

```

```

-----
Shifters:  AT GK KD PV
===== Setup =====
Central fragment: 41Al @F8
--- Degraders ---
Fixed: 3mm Pb between Musics chambers
Included lead shieldings around the beam.
Variable:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. OUT
2. IN
3. IN

```

```

===== COMMENTS =====
HH:MM

```

```

----- Rates -----
RateBRIKEN      = 156.043 cps
RateF11R        = 319.53 cps
RateClovers     = 178.326 cps
RateVPLT        = 22.8483 cps
RateVPLB        = 10.1259 cps
RateAIDAPL      = 39.3432 cps

```

```

===== END =====
Date 2016/11/28
BRIKEN run      : 79
BRIKEN stop     : 18.22
ROOT online     : 161128_1432_079.root
AIDA run        : R29_47
AIDA stop       : 18.22
BigRIPS RUN     : 1058

```

207	Mon Nov 28 15:02:48 2016	BRIKEN collaboration	run						
-----	--------------------------	----------------------	-----	--	--	--	--	--	--

```

===== START =====
Date 2016/11/28
Start time      : 11:12
BRIKEN run     : 056
Daq Conf. File : 161128Conf_BrikenFull.xlsx
DLT File name  : 161128_1112
AIDA run       : R28-0
AIDA start     : 11:08
BigRIPS run    : 1049
BigRIPS start  : 09:15

```

```

-----
Shifters:  AT GK KD
===== Setup =====
Central fragment: 41Al @F8
--- Degraders ---
Fixed: 3mm Pb between Musics chambers
Included lead shieldings around the beam.
Variable:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. OUT
2. IN
3. IN

```

206	Mon Nov 28 09:20:29 2016	BRIKEN collaboration	run		RUN   BRIKEN	045			
-----	--------------------------	----------------------	-----	--	--------------	-----	--	--	--

```

===== START =====
Date 2016/11/28
Start time      : 09:15
BRIKEN run     : 045
Daq Conf. File : 161128Conf_BrikenFull.xlsx
DLT File name  : 161128_0915
AIDA run       : R27-17
AIDA start     : 09:17
BigRIPS run    : 1049
BigRIPS start  : 09:15

```

```

-----
Shifters:  AT GK KD
===== Setup =====
Central fragment: 41Al @F8

```



Central fragment: 41Al @F8  
 --- Degraders ---  
 Fixed: 3mm Pb between Musics chambers  
 Included lead shieldings around the beam.  
 Variable:  
 1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)  
 1. OUT  
 2. IN  
 3. IN

=====  
COMMENTS  
=====

09:13 Clover G7Red Plugged in again.

AIDAPL gain has been increased by SN from 900V to 1000V.

----- Rates -----

BRIKEN : Hz  
 F11R : Hz  
 Clovers : Hz  
 VPLT : Hz  
 VPLB : Hz  
 AIDAPL : Hz

=====  
END  
=====

Date 2016/11/28

BRIKEN run :  
 BRIKEN stop :  
 ROOT online :  
 AIDA run :  
 AIDA stop :  
 BigRIPS RUN :

205	Mon Nov 28 09:19:57 2016	BRIKEN collaboration	Clovers	Problem Fixed	BRIKEN			
-----	--------------------------	----------------------	---------	---------------	--------	--	--	--

According to GK, the new preamplifier is a little bit larger than the previous one, and it was in contact the case of the clover. They open the case to make some space to the preamp. The signals were checked and looks ok.

204	Mon Nov 28 08:08:07 2016	BRIKEN collaboration	run		RUN   BRIKEN	043		
-----	--------------------------	----------------------	-----	--	--------------	-----	--	--

=====  
START  
=====

Date 2016/11/28

Start time : 07:51  
 BRIKEN run : 043  
 Daq Conf. File : 161128Conf\_BrikenFull.xlsx  
 DLT File name : 161128\_0751  
 AIDA run : R27\_0  
 AIDA start : 07:41  
 BigRIPS run : 40Mg-1047  
 BigRIPS start : 07:37

Shifters: AT, LIU, CG

=====  
Setup  
=====

Central fragment: 41Al @F8  
 --- Degraders ---  
 Fixed: 3mm Pb between Musics chambers  
 Variable:  
 1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)  
 1. OUT  
 2. IN  
 3. IN

=====  
COMMENTS  
=====

07:50 TimeStamp was reset 3 times previously to this run.  
 09:00 Beam off for change of stripper foils.

Obs: Due to changes in the configuration of the

----- Rates -----

RateBRIKEN = 176.78 cps  
 RateF11R = 297.934 cps  
 RateClovers = 202.222 cps  
 RateVPLT = 15.9066 cps  
 RateVPLB = 5.35657 cps  
 RateAIDAPL = 45.2196 cps

=====  
END  
=====

Date 2016/11/28

BRIKEN run : 044  
 BRIKEN stop : 09:01  
 ROOT online : 161128\_0751\_043.root  
 AIDA run : 27  
 AIDA stop : 09:00 (not stopped the run)  
 BigRIPS RUN : 1048

203	Mon Nov 28 08:03:18 2016	BRIKEN collaboration	run		RUN   BRIKEN	042		
-----	--------------------------	----------------------	-----	--	--------------	-----	--	--

07:47 Run is started but there were problems with the Block. Therefore run was stopped 3 min later. File: 161128\_0746\_042.dlt

		BRIKEN	DAO		DAO			
--	--	--------	-----	--	-----	--	--	--

202	Mon Nov 28 06:34:56 2016	BRIKEN collaboration	DAQ Configuration file	Configuration	DAQ   BRIKEN			
-----	--------------------------	----------------------	------------------------	---------------	--------------	--	--	--

From here changes in online rates!

A new configuration file has been created:  
161128Conf\_BrikenFull.xlsx

Changes in the Daq configuration are  
- Integration limits for rates F11R, VPLT, VPLB, SiT, SiB.  
- Thresholds for F11R and vetos VPLT, VPLB, SiT, SiB.

Configuration file is included!

Attachment 1: 161128Conf\_BrikenFull.xlsx

201	Mon Nov 28 01:54:50 2016	BRIKEN collaboration	run		RUN   BRIKEN	040		
-----	--------------------------	----------------------	-----	--	--------------	-----	--	--

```

===== START =====
Date 2016/11/28
Start time : 01:42
BRIKEN run : 040
Daq Conf. File : 161125Conf_BrikenFull.xlsx
DLT File name : 161128_0142
AIDA run : R26_39 (Do not stop, running from 22:10 @ R26_0)
AIDA start : 01:35
BigRIPS run : 40Mg-1041
BigRIPS start : 01:35:52

```

```

-----
Shifters: AT, AE, CG, LIU
===== Setup =====
Central fragment: 41Al
--- Degraders ---
Fixed: 3mm Pb in between of MUSIC chambers
Variable:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. OUT
2. IN
3. IN

```

```

===== COMMENTS =====
02:46 Partial Online saved.
04:07 Partial Online saved.
06:02 Partial Online saved.
06:27 Stopped just after LN2 refilling started.

```

Obs: CHECK LAST MINUTES OF DATA!

```

----- Rates -----
RateBRIKEN = 184.885 cps
RateF11R = XXXXX cps
RateClovers = 203.842 cps
RateVPLT = 16.6359 cps
RateVPLB = 5.75275 cps
RateAIDAPL = 9.42997 cps

```

```

===== END =====
Date 2016/11/28
BRIKEN run : 041
BRIKEN stop : 06:27
ROOT online : 161128_0142_040_0246.root, 161128_0142_040_0407.root, 161128_0142_040_0602.root
AIDA run : R26_97
AIDA stop : 06:27
BigRIPS RUN : 40Mg-1045

```

200	Mon Nov 28 01:49:39 2016	BRIKEN collaboration	run		RUN   BRIKEN	39		
-----	--------------------------	----------------------	-----	--	--------------	----	--	--

```

===== START =====
Date 2016/11/27
Start time : 22:32
BRIKEN run : 39
Daq Conf. File : 161125Conf_BrikenFull.xlsx
DLT File name : 161127_2234
AIDA run : R26-03
AIDA start : 22:32
BigRIPS run : 40Mg-1037
BigRIPS start : 21:41

```

```

-----
Shifters: LIU, AT, CG
===== Setup =====
Central fragment: 41Al @F8
--- Degraders ---
Fixed: 3mm Pb in between of MUSIC chambers + 1mm Al
Variable:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. OUT
2. IN

```

12/03/16  
2. IN  
3. IN

=====  
===== COMMENTS =====

00:42 Partial online saved!  
01:28 Beam Stop. Small intervention to remove fixed degrader 1mm Al.

----- Rates -----

RateBRIKEN = 180.237 cps  
RateF11R = XXXXX cps  
RateClovers = 202.786 cps  
RateVPLT = 16.1701 cps  
RateVPLB = 5.58221 cps  
RateAIDAPL = 9.42812 cps

=====  
===== END =====

Date 2016/11/27  
BRIKEN run : 39  
BRIKEN stop : 01:28  
ROOT online : 161127\_2234\_039\_0042.root, 161127\_2234\_039\_0132.root  
AIDA run : R26\_38  
AIDA stop : Not stopped  
BigRIPS RUN : 1040

199	Mon Nov 28 01:48:35 2016	BRIKEN collaboration	run		RUN   BRIKEN	38			
-----	--------------------------	-------------------------	-----	--	-----------------	----	--	--	--

=====  
===== START =====

Date 2016/11/27  
Start time : 21:11  
BRIKEN run : 038  
Daq Conf. File : 161125Conf\_BrikenFull.xlsx  
DLT File name : 161127\_2111  
AIDA run : R26\_0  
AIDA start : 20:16  
BigRIPS run : 40Mg-1036  
BigRIPS start : 20:39

-----  
Shifters: GK, AE, LIU, PV

=====  
===== Setup =====

Central fragment: 41Al @F8  
--- Degraders ---  
Fixed: 3mm Pb between Veto plastics up and down + 1mm Al  
Variable:  
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)  
1. OUT  
2. IN  
3. IN

=====  
===== COMMENTS =====

This degrader conf. should shift implantation depth by 2.7mm upstream

----- Rates -----

BRIKEN : Hz  
F11R : Hz  
Clovers : Hz  
VPLT : Hz  
VPLB : Hz  
AIDAPL : Hz

=====  
===== END =====

Date 2016/11/27  
BRIKEN run : 038  
BRIKEN stop : ?  
ROOT online : Not Saved  
AIDA run : ?  
AIDA stop : ?  
BigRIPS RUN : ?

198	Mon Nov 28 01:48:23 2016	BRIKEN collaboration	run		RUN   BRIKEN	37			
-----	--------------------------	-------------------------	-----	--	-----------------	----	--	--	--

=====  
===== START =====

Date 2016/11/27  
Start time : 21:11 ? (20:59 according to creation time from terminal)  
BRIKEN run : 037  
Daq Conf. File : 161125Conf\_BrikenFull.xlsx  
DLT File name : 161127\_2038\_  
AIDA run :  
AIDA start :  
BigRIPS run :  
BigRIPS start :

-----  
Shifters: GK, AE

=====  
===== Setup =====

Central fragment: 41Al @F8  
--- Degraders ---  
Fixed: 3mm Pb between Veto plastics up and down + 1mm Al  
Variable:

Variable:  
 1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)  
 1. OUT  
 2. IN  
 3. IN

=====  
 22:14 Stopped AIDA for degrader change

OBS Check AIDA run data!

----- Rates -----  
 BRIKEN : Hz  
 F11R : Hz  
 Clovers : Hz  
 VPLT : Hz  
 VPLB : Hz  
 AIDAPL : Hz

=====  
 END =====  
 Date 2016/11/27  
 BRIKEN run : 037  
 BRIKEN stop :  
 ROOT online : Not saved!  
 AIDA run :  
 AIDA stop :  
 BigRIPS RUN :

196	Mon Nov 28 01:47:54 2016	BRIKEN collaboration	run		RUN   BRIKEN	36			
-----	--------------------------	----------------------	-----	--	--------------	----	--	--	--

=====  
 START =====  
 Date 2016/11/27  
 Start time : 19:28  
 BRIKEN run : 36  
 Daq Conf. File : 161125Conf\_BrikenFull.xlsx  
 DLT File name : 161128\_1928  
 AIDA run : R24  
 AIDA start : 19:28  
 BigRIPS run : 1034  
 BigRIPS start : 18:33

-----  
 Shifters: PV, KG, TD  
 =====  
 Setup =====  
 Central fragment: 41Al @F8  
 --- Degraders ---  
 Fixed: 3mm Pb between Veto plastics up and down + 1mm Al  
 Variable:  
 1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)  
 1. IN  
 2. IN  
 3. OUT

=====  
 COMMENTS =====  
 TimeStamp has been reset two times during this run.

ERROR! Data acquisition with errors during this ring because not restarted after Liquid Nitrogen refilling.

----- Rates -----  
 BRIKEN : Hz  
 F11R : Hz  
 Clovers : Hz  
 VPLT : Hz  
 VPLB : Hz  
 AIDAPL : Hz

=====  
 END =====  
 Date 2016/11/27  
 BRIKEN run : 036  
 BRIKEN stop : 20:38  
 ROOT online : 161127\_1928\_036.root  
 AIDA run : R25\_0  
 AIDA stop :  
 BigRIPS RUN : 1035

195	Sun Nov 27 22:18:50 2016	BRIKEN collaboration	run		RUN				
-----	--------------------------	----------------------	-----	--	-----	--	--	--	--

AIDA stopped at 22:14, R25\_12  
 degrader changed to: adjustable 2&3 In, 1 out + the fixed Pb  
 AIDA started at 22:16 R26\_0  
 BRIKEN kept running

194	Sun Nov 27 21:14:46 2016	BRIKEN collaboration	crash		BRIKEN				
-----	--------------------------	----------------------	-------	--	--------	--	--	--	--

BRIKEN DAQ crashed. Terminals were re-started and time stamp was reset 2x. New file started at 21:11 (run number 37)

193	Sun Nov 27 19:28:19 2016	BRIKEN collaboration	run		RUN   BRIKEN	035			
-----	--------------------------	----------------------	-----	--	--------------	-----	--	--	--

```

===== START =====
Date 2016/11/26
Start time      : 18:59
BRIKEN run     : 035
Daq Conf. File : 161125Conf_BrikenFull.xlsx
AIDA run       : R23-
AIDA start     : 18:57
BigRIPS run    : 40Mg-1009
BigRIPS start  : 1034
-----
Shifters:  GK, PV & AE, TD
===== Setup =====
Central fragment: 41Al @ F8
--- Degraders ---
Fixed: 3mm Pb between Veto plastics up and down + 1mm Al
Variable:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. OUT
2. IN
3. IN
===== COMMENTS =====
LN2 filling was not completed, so DAQ was stopped at the end of this run.
----- Rates -----
RateBRIKEN     = 369.865 cps & 182.942 cps
RateF11R       = XXXX cps & cps
RateClovers    = 409.594 cps & 204.536 cps
RateVPLT       = 31.6059 cps & 15.647 cps
RateVPLB       = 10.7529 cps & 4.95542 cps
RateAIDAPL     = 19.6529 cps & 9.36018 cps
=====
Date 2016/11/26
BRIKEN run     : 035
BRIKEN stop    : 19:24
AIDA run       : 23_4
AIDA stop      : 19:19
BigRIPS RUN    : 1034
ROOT online    : 161127_1926_035.root

```

192	Sun Nov 27 19:10:47 2016	BRIKEN collaboration	run		RUN   BRIKEN	034			
-----	--------------------------	----------------------	-----	--	--------------	-----	--	--	--

```

===== START =====
Date 2016/11/27
Start time      : 17:29
BRIKEN run     : 034
Daq Conf. File : 161125Conf_BrikenFull.xlsx
BigRIPS run    : 40Mg-1033
BigRIPS start  : 17:24
-----
Shifters:  GK, PV & AE, TD
===== Setup =====
Central fragment: 41Al@F8
--- Degraders ---
Fixed: 3mm Pb between Veto plastics up and down + 1mm Al
Variable:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. OUT
2. IN
3. IN
===== COMMENTS =====
In previous run 031, conf. file was not reloaded. Run is restarted!!!!
----- Rates -----
RateBRIKEN     = 192.071 cps
RateF11R       = XXXX cps
RateClovers    = 207.277 cps
RateVPLT       = 16.21 cps
RateVPLB       = 5.2964 cps
RateAIDAPL     = 9.77014 cps
=====
Date 2016/11/27
BRIKEN run     : 019
BRIKEN stop    : 18:29 due to LN2
AIDA run       : R22-14
AIDA stop      : 18:29
ROOT online    : 161127_1729.root

```

191	Sun Nov 27 19:08:04 2016	BRIKEN collaboration	run		RUN   BRIKEN	032			
-----	--------------------------	----------------------	-----	--	--------------	-----	--	--	--

```

===== START =====
Date 2016/11/27
Start time      : 16:19
BRIKEN run     : 032
Daq Conf. File : 161125Conf_BrikenFull.xlsx
DLT File name  : 161127_1619
AIDA run       : R21_0
AIDA start     : 16:19

```

```

AIDA start      : 16:19
BigRIPS run     : 40Mg-1032
BigRIPS start   :
-----
Shifters:  GK, PV & AE, TD
=====  Setup  =====
Central fragment: 41Al @F8
--- Degraders ---
Fixed: 3mm Pb between Veto plastics up and down + 1mm Al
Variable:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. OUT
2. IN
3. IN

=====  END  =====
Date 2016/11/27
BRIKEN run      : 032
BRIKEN stop     : 17:15 due to stripper foil change
ROOT online     : Not saved!
    
```

190	Sun Nov 27 16:10:06 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	031	40Mg		
-----	--------------------------	----------------------	-----------------	--	--------------	-----	------	--	--

```

=====  START  =====
Date 2016/11/27
Start time      : 13:53
BRIKEN run      : 031
Daq Conf. File  : 161125Conf_BrikenFull.xlsx
DLT File name   : 161127_1353
AIDA run        : R20_0
AIDA start      : 13:51
BigRIPS run     : 1028
BigRIPS start   : 12:32:36
-----
Shifters:
=====  Setup  =====
Central fragment: 40Mg
--- Degraders ---
Changed from previous configuration!!!
Fixed: 3mm Pb attached in between Musics + 1mm Al
Variable:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. IN
2. IN
3. OUT

=====  COMMENTS  =====

-----  Rates  -----
RateBRIKEN      = 203.016 cps
RateF11R        = XXXX cps
RateClovers     = 212.35 cps
RateVPLT        = 18.778 cps
RateVPLB        = 7.79747 cps
RateAIDAPL      = 10.8126 cps
    
```

```

=====  END  =====
Date 2016/11/26
BRIKEN run      : 031
BRIKEN stop     : 16:04
ROOT online     : 161127_1353_031.root
AIDA run        : R20_27
AIDA stop       : 16:04
BigRIPS RUN     : 1030
    
```

189	Sun Nov 27 11:05:03 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	30	41Al		
-----	--------------------------	----------------------	-----------------	--	--------------	----	------	--	--

```

=====  START  =====
Date 2016/11/27
Start time      : 10:41
BRIKEN run      : 030
Daq Conf. File  : 161125Conf_BrikenFull.xlsx
DLT File name   : 161126_1041
AIDA run        : R17_0
AIDA start      : 10:41
BigRIPS run     : 1025
BigRIPS start   : 08:57:33
-----
Shifters:
=====  Setup  =====
Central fragment: 40Mg
--- Degraders ---
Fixed: 3mm Pb attached to beam hole in BRIKEN PE shielding
Variable:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. IN
2. IN
3. OUT
    
```

=====  
COMMENTS  
=====

13:00 The syncro was lost. The TimeStamp was reset. We did not stop recording data. AIDA was writing file R18\_28, BRIKEN was writing file 161126\_1041\_030.dlt (@637MB). Notice that BRIKEN online histograms were not reset, and the rates will not be plane.

----- Rates -----  
BRIKEN : 200 Hz  
F11R : 100 Hz  
Clovers : 275 Hz  
VPLT : 18 Hz  
VPLB : 8 Hz  
AIDAPL : 10 Hz

=====  
END  
=====

Date 2016/11/26  
BRIKEN run : 030  
BRIKEN stop : 13:26  
ROOT online : 161126\_1326\_029\_030.root  
AIDA run : R28\_33  
AIDA stop : 13:26  
BigRIPS RUN : 1028

188	Sun Nov 27 09:05:14 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	024	41A1		
-----	--------------------------	----------------------	-----------------	--	--------------	-----	------	--	--

=====  
START  
=====

Date 2016/11/27  
Start time : 08:03  
BRIKEN run : 024  
Daq Conf. File : 161125Conf\_BrikenFull.xlsx  
DLT File name : 161126\_0803  
AIDA run : R12\_0  
AIDA start : 08:03  
BigRIPS run : 40Mg-1024  
BigRIPS start : 07:53:57

-----  
Shifters:

=====  
Setup  
=====

Central fragment: 41A1  
--- Degraders ---  
Fixed: 3mm Pb attached to beam hole in BRIKEN PE shielding  
Variable:  
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)  
1. OUT  
2. IN  
3. IN

=====  
COMMENTS  
=====

HH:MM

----- Rates -----  
BRIKEN : Hz  
F11R : Hz  
Clovers : Hz  
VPLT : Hz  
VPLB : Hz  
AIDAPL : Hz

=====  
END  
=====

Date 2016/11/26  
BRIKEN run :  
BRIKEN stop :  
ROOT online :  
AIDA run :  
AIDA stop :  
BigRIPS RUN :

187	Sun Nov 27 04:13:27 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	020-023	41A1		
-----	--------------------------	----------------------	-----------------	--	--------------	---------	------	--	--

=====  
START  
=====

Date 2016/11/26  
Start time : 20:05  
BRIKEN run : 020  
Daq Conf. File : 161125Conf\_BrikenFull.xlsx  
DLT File name : 161126\_2004\_  
AIDA run : R10-0  
AIDA start : 20:05  
BigRIPS run : 40Mg-1011  
BigRIPS start : 19:30

-----  
Shifters: AT&AT, AE, GK

=====  
Setup  
=====

Central fragment: 41A1  
--- Degraders ---  
Fixed: 3mm Pb attached to beam hole in BRIKEN PE shielding  
Variable:  
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)

- 1. OUT
- 2. IN
- 3. IN

===== COMMENTS =====

2016/11/27  
02:48 Beam Off for a while.

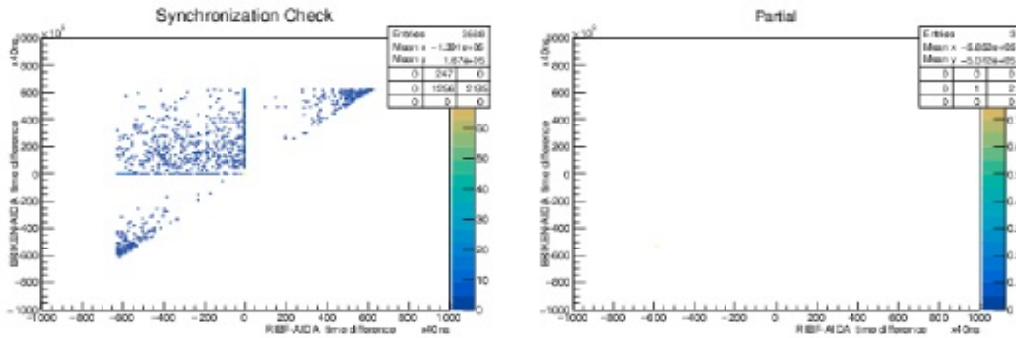
07:15 Two peaks appeared in the syncMonitor for Ribf-AIDA. It was after the refilling of Liquid Ni. Not clear if the possible sync problem affected the measurements.

07:20 Beam OFF

----- Rates -----  
BRIKEN : 1.90963e+02 Hz  
F11R : 9.75134 Hz  
Clovers : 2.03958e+02 Hz  
VPLT : 1.87119e+01 Hz  
VPLB : 7.76665 Hz  
AIDAPL : 1.00896e+01 Hz

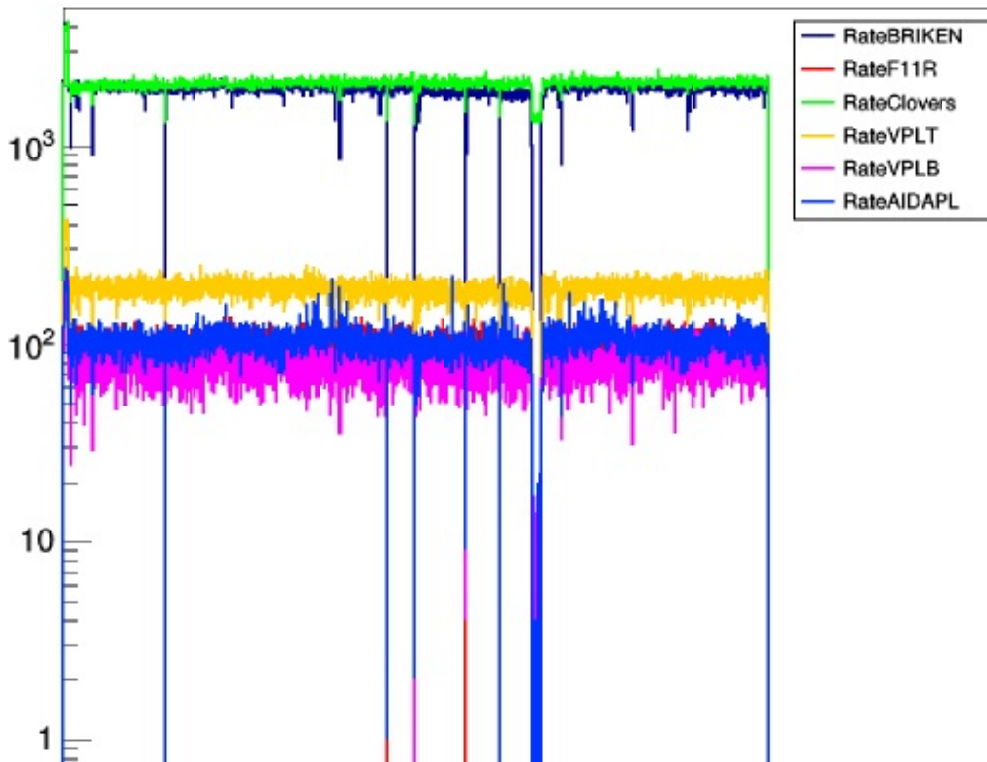
===== END =====  
Date 2016/11/27  
BRIKEN run : 023  
BRIKEN stop : 06:25  
ROOT online : 161126\_2004\_020\_023.root  
AIDA run : R10-211  
AIDA stop : 06:25  
BigRIPS RUN :

Attachment 1: [syncMonitor\\_161127\\_0712.png](#)

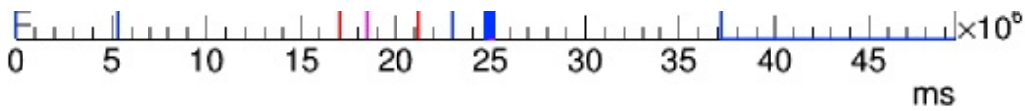


Attachment 2: [161126\\_2004\\_020\\_023\\_Rates.png](#)

### 161126\_2004\_020\_023.root: Rates







186	Sun Nov 27 03:39:38 2016	BRIKEN collaboration	New measurement		RUN BRIKEN	016-019	41Al		
-----	--------------------------	-------------------------	-----------------	--	---------------	---------	------	--	--

```

===== START =====
Date 2016/11/26
Start time      : 17:21
BRIKEN run     : 016
Daq Conf. File : 161125Conf_BrikenFull.xlsx
DLT File name  : 161126_1721_016
AIDA run      : R9-24
AIDA start    : 16:35
BigRIPS run   : 40Mg-1009
BigRIPS start :
-----
Shifters: GK, AT&AT
===== Setup =====
Central fragment: 41Al
--- Degraders ---
Fixed: 3mm Pb between Musics
Variable:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. OUT
2. IN
3. IN
===== COMMENTS =====
High gamma counting is affecting rings 1-4!!! (gammas in beam!?)

```

```

----- Rates -----
BRIKEN : 1.12118e+02 cps
F11R   : 6.26962 cps
Clovers : 1.72406e+04 cps
VPLT   : 1.82165e+01 cps
VPLB   : 9.08055 cps
AIDAPL : 7.42954 cps

```

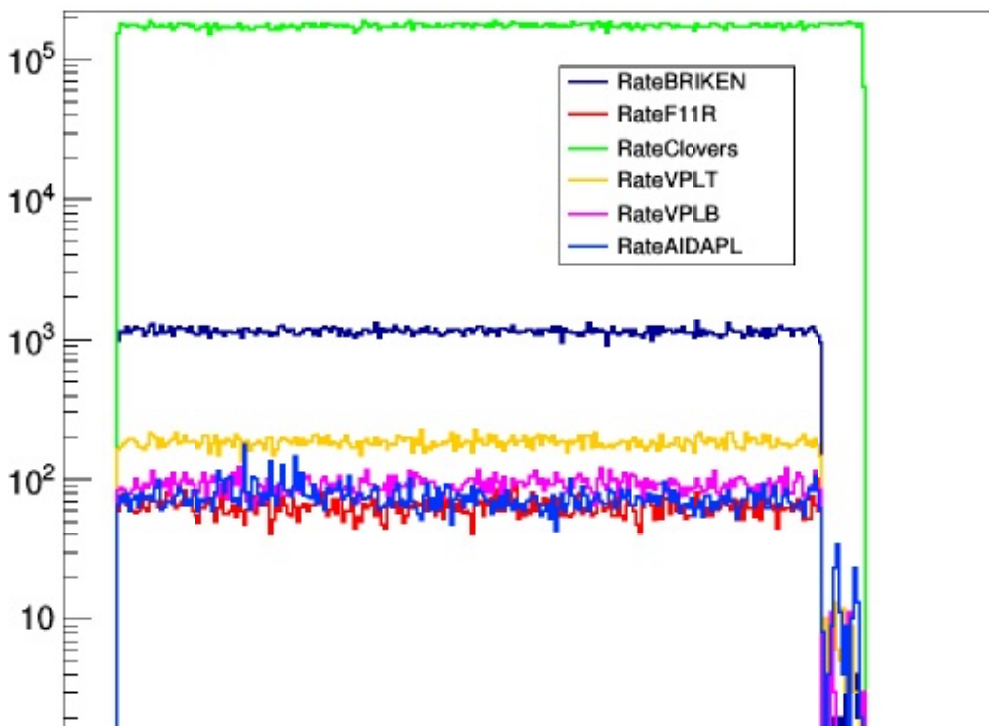
```

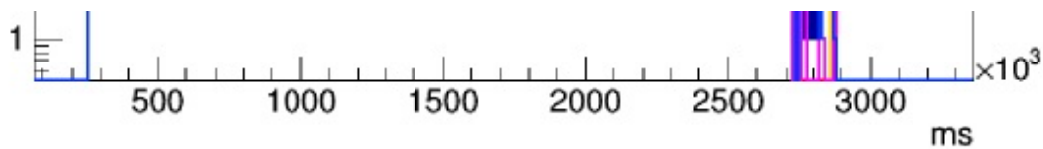
===== END =====
Date 2016/11/26
BRIKEN run : 019
BRIKEN stop : 18:04
ROOT online : 161126_1823_016_019.root
AIDA run : R9-43
AIDA stop : 18:12
BigRIPS RUN :

```

Attachment 1: [161126\\_1823\\_016\\_019\\_Rates.png](#)

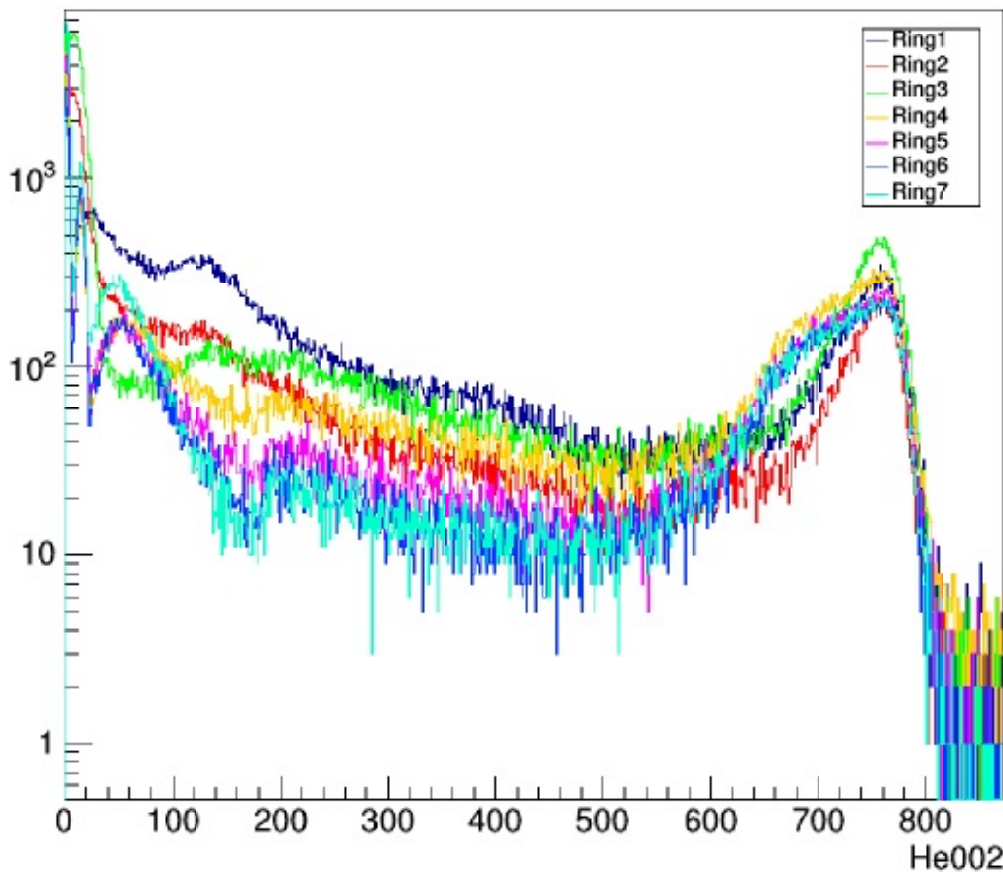
## 161126\_1823\_016\_019.root: Rates





Attachment 2: 161126\_1823\_016\_019\_Rings.png

### 161126\_1823\_016\_019.root: Rings



185	Sun Nov 27 03:08:32 2016	<a href="#">BRIKEN collaboration</a>	run	Configuration	<a href="#">RUN   BRIKEN</a>	000-015	41Al		
-----	--------------------------	--------------------------------------	-----	---------------	------------------------------	---------	------	--	--

08:15 BigRips tuning for centering 41Al. Adquisition started.  
 Degradar: 5mm Pb located between MUSIC chambers

08:45  
 Beam Off for intervention

08:50  
 Degradar is modified to 3mm Pb

09:44  
 Acquisition is stopped Files:  
 161126\_0815\_000.dlt  
 161126\_0815\_000.root

Rates:  
 BRIKEN : 85.2 Hz  
 F11R : 33.5 Hz

Daq Conf. File : 161125Conf\_BrikenFull.xlsx

=====  
 11:07 New acquisition is started for tungsten degraders  
 1mm W + 1mm Al  
 0.5mm W + 1mm Al  
 3mm Pb (fixed on the beam)

11:14 Online is saved and then cleared  
 file: 161126\_1107\_001\_1114.root

Rates:

12/03/16  
Rates:  
F11R : 10.5Hz  
BRIKEN : 170 Hz

11:18 Tungsten degraders are removed.

11:20 Beam Off

11:30 Beam ON

OBS: Something happens in between with the beam intensity!!!

Rates:  
F11R : 10.5Hz && 4.54 Hz  
BRIKEN : 177.7 Hz && 160 Hz

11:41 Beam OFF

11:55 Acquisition is stopped. Files  
161126\_1107\_001.dlt (full run)  
161126\_1107\_001.root (Online from 11:18)

=====  
13:08 Beam is still OFF. Background acquisition is started.  
Degradar:  
3 mm Pb ONLY!

13:25 Signal cables for clover G7 are connected, now G7 spectra are visible in ONLINE.

13:35 Beam Off!

14:00 Beam ON

15:08 Beam OFF, still problems with beam!

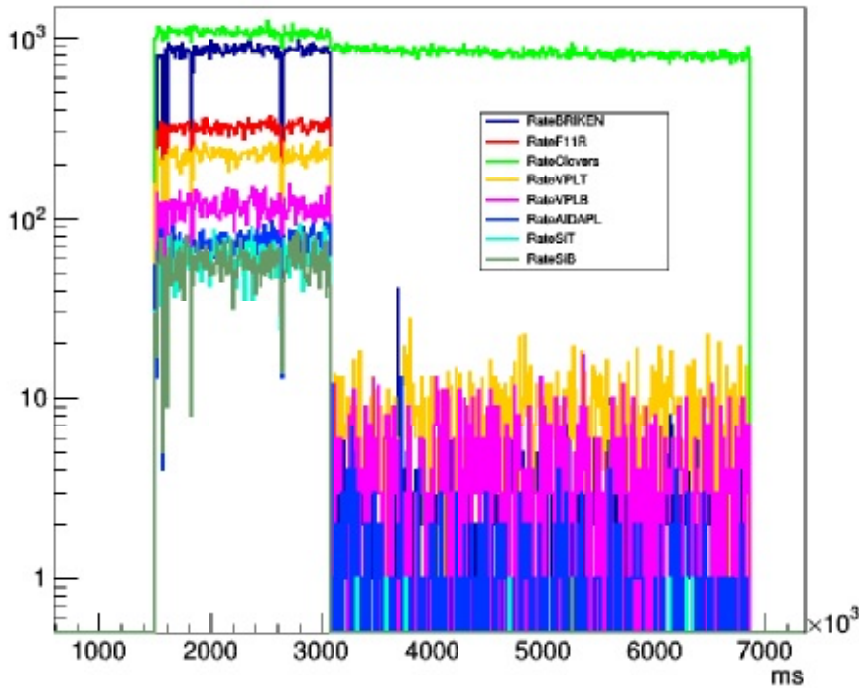
15:11 Beam ON

15:18 Acquisition is stopped. Files  
161126\_1308\_002.dlt to 161126\_1308\_015.dlt  
161126\_1308\_002.root (online)

Rates:  
F11R : 4.2 & 1.0 & 9.3 Hz  
BRIKEN : 150 & 12.9 & 160 Hz

Attachment 1: [161126\\_0815\\_000\\_Rates.png](#)

### 161126\_0815\_000.root: Rates

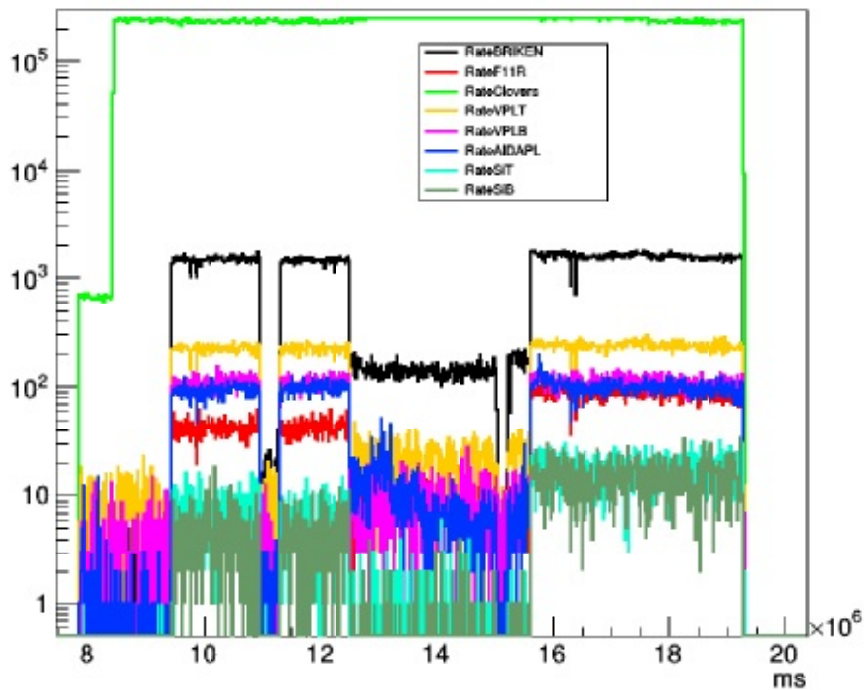


Attachment 2: [161126\\_1107\\_001\\_Rates.png](#)

[161126\\_1107\\_001\\_Rates.png](#)

Attachment 3: [161126\\_1308\\_002\\_Rates.png](#)

### 161126\_1308\_002.root: Rates



184	Sat Nov 26 09:02:41 2016	BRIKEN collaboration	Fallon Parasitic experiments						
-----	--------------------------	----------------------	------------------------------	--	--	--	--	--	--

==== START OF PARASITIC EXPERIMENTS =====

Setup for current parasitic experiments

Energy 41Al @ F11 is around 145MeV/u

Degraders:

- Pb 3mm width ---> IN beam

- Tungsten:

- 1) 0.5 mm W + 1mm Al ---> IN/OUT beam
- 2) 0.3 mm W + 1mm Al ---> IN/OUT beam
- 3) 1.0 mm W + 1mm Al ---> IN/OUT beam

183	Fri Nov 11 16:50:34 2016	BRIKEN collaboration	252Cf efficiency calibration		RUN   BRIKEN	000			
-----	--------------------------	----------------------	------------------------------	--	--------------	-----	--	--	--

252Cf Efficiency calibration with AIDA in place to see if there is an effect.

We situated the source in the border of the cardboard holder and slide it until it just touches the surface of the AIDA mylar protection cap. The distance of the source to front part of PE moderator is about 28.5cm. That is the source is at 37.5-28.5=9cm from the center. Clovers are turned off.

Start: 16:16

Run: 000

DLT file: 161111\_1616\_252Cf\_AIDA\_000.dlt

Rate: 11600cps

Stop: 16:40

ROOT file: 161111\_1640\_252Cf\_AIDA\_000.root

182	Fri Nov 11 11:44:08 2016	BRIKEN collaboration	background		RUN   BRIKEN	no			
-----	--------------------------	----------------------	------------	--	--------------	----	--	--	--

Background measurement, only histograms, no file written

Start: 11:43

Stop around 16:00

At some point the HV of Clover detectors was turned down so there is a lot of noise in the DAQ.

Input of CLOVER detectors in V2A7 removed.

ROOT file: 161111\_1600\_bck.root

181	Fri Nov 11 10:28:20 2016	BRIKEN collaboration	Manual LN2 filling						
-----	--------------------------	----------------------	--------------------	--	--	--	--	--	--

Manual LN2 filling started at 10:25

180	Fri Nov 11 10:27:06 2016	BRIKEN	background		RUN		background		
-----	--------------------------	--------	------------	--	-----	--	------------	--	--

12/03/16

<http://ribfexp.riken.jp/elog/RIBF123/page?mode=full>

#67

180 Fri Nov 11 10:27:06 2016

collaboration

measurement

BRIKEN

background

The histograms were saved at 10:24, after stopping for filling the Ge.  
/data/1611Commissioning/161111Main/161111\_1024\_bck.root

Histograms were cleared.

179 Fri Nov 11 01:58:38 2016

BRIKEN  
collaboration

How to check the  
gas flow and HV  
for MUSIC of GSI

Remarks

BRIKEN

The first photo shows the control panel for MUSIC of GSI.

The right scale in the second photo indicates the pressure of gas left in the tank.

The third photo shows flow of gas. If the red point is between 60-90, it is ok. If not, you can adjust the flow with a black screw.

The two indicators in fourth photo are used during our experiment.

The HV for MUSIC of GSI can be checked via

<http://10.32.6.183>

id = RIBF123

pass = Ni77

while your computer is connected to 10.32.6.183.

Attachment 1: [IMG\\_20161110\\_124516981.jpg](#)



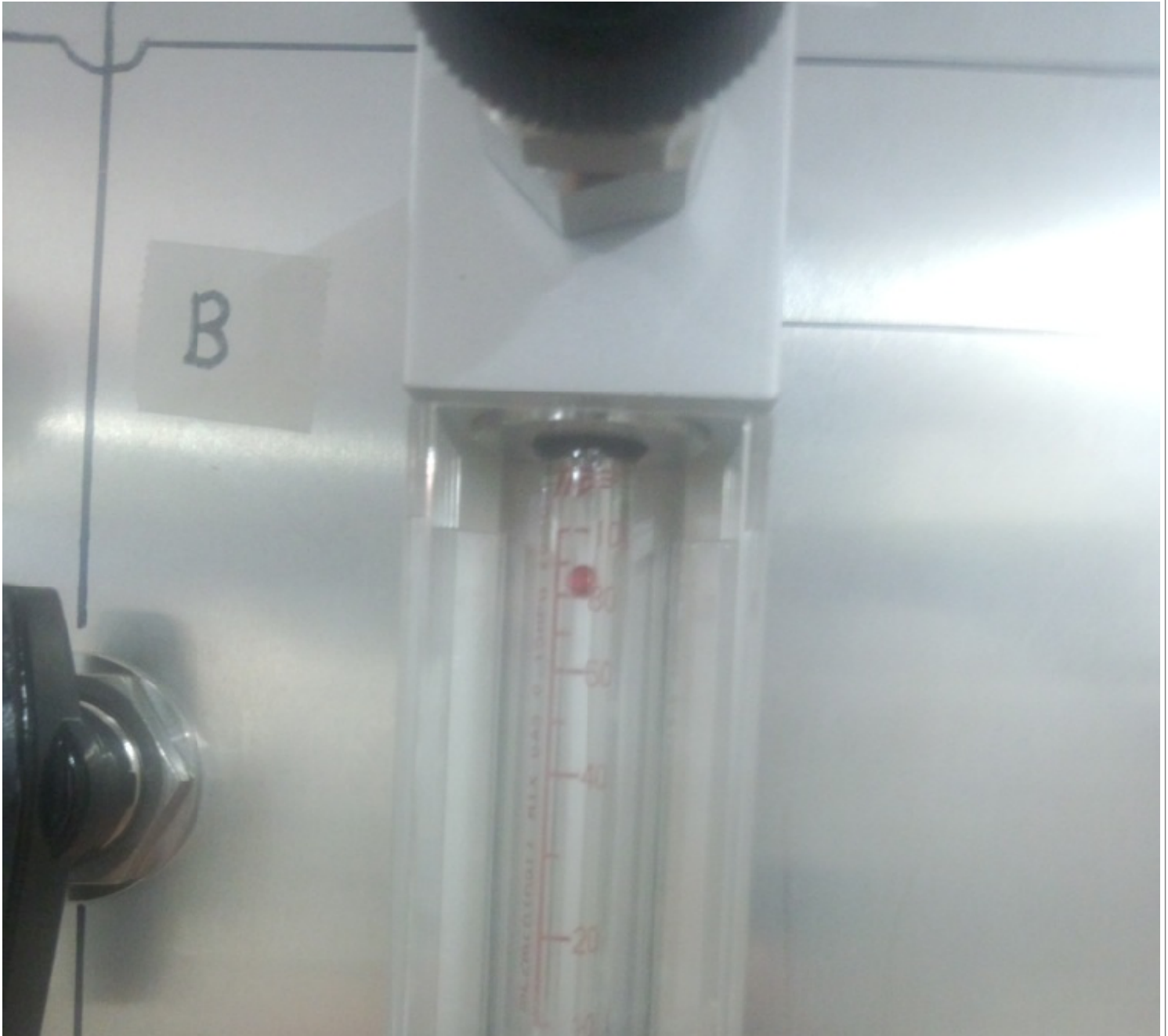


Attachment 2: [IMG\\_20161110\\_124512279.jpg](#)





Attachment 3: [IMG\\_20161110\\_124426893.jpg](#)





Attachment 4: IMG\_20161110\_124415880.jpg



178	Fri Nov 11 01:27:40 2016	BRIKEN collaboration	Directory	Remarks	BRIKEN				
-----	--------------------------	----------------------	-----------	---------	--------	--	--	--	--



The data taken by BigRIPS DAQ (ridf-file) will be automatically copied to the directory during our comissioning;

briken16@ribfana03.riken.jp:/home/briken16/rawdata/nov16briken/

And please note that the directory of ridf-files created during Takechi-san's experiment (radiioffXXXX.ridf) is changed to;

briken16@ribfana03.riken.jp:/home/briken16/rawdata/oct16ur/

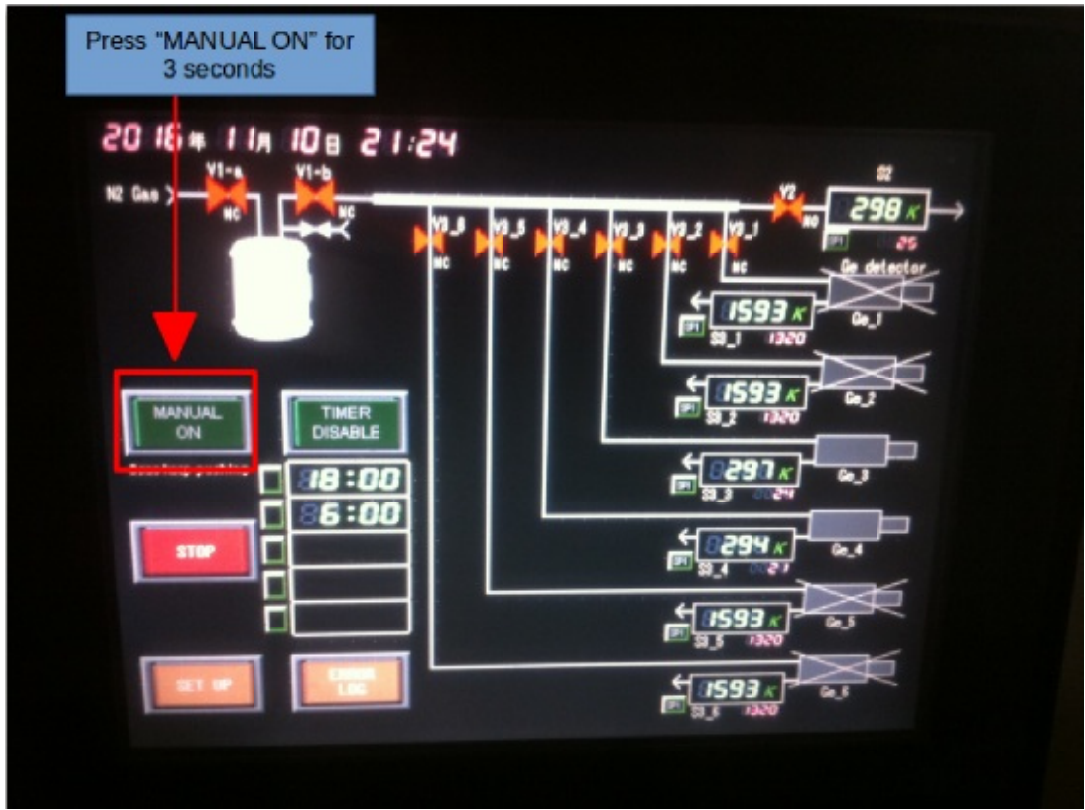
As the directory changed, the converting program shown in <http://ribf-exp.riken.jp/eelog/RIBF123/171> was modified. It can be adapted for our ridf-file in "nov16briken".

177	Thu Nov 10 22:23:27 2016	BRIKEN collaboration	Manaully filling LN2 to Clover	Remarks	Detector   BRIKEN			
-----	--------------------------	----------------------	--------------------------------	---------	-------------------	--	--	--

We will fill the Clover detectors manually when the beam is tuning. Here is the instruction: Press "MANUAL ON" for 3 seconds then the system will start to fill the Clovers.

NOTICE: Don't TOUCH LN2 tubes while filling. The tubes will be fragile when they are in low temperature.

Attachment 1: [42.png](#)



176	Thu Nov 10 21:43:51 2016	BRIKEN collaboration	Setup changes	Remarks	BRIKEN			
-----	--------------------------	----------------------	---------------	---------	--------	--	--	--

Takechi group has removed the plastic and the plastic with the hole and the sample changer. Gabor has installed a 5 mm fixed degrader behind the adjustable degrader. There is no degrader inside the PE matrix (the L-shaped degrader was removed before the parasitic run, JLT was hiding this information somewhere in the ELOG text. Iris has set-up a good German lead wall, this will be removed as soon as tuning is done. Please imagine David Hasselhoff singing "Looking for freedom" when you remove it during the night... 27 years and 1 day after the Berlin wall came down ;-)

Attachment 1: [Setup-161111-BRIKEN.pdf](#)

175	Thu Nov 10 19:39:15 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	048	767778Ni	
-----	--------------------------	----------------------	-----------------	--	--------------	-----	----------	--

F5 C wedge F7 out F11 C 6mm

Date 2016/11/10  
Start time: 19:37  
DLT File: 161110\_1937\_767778Ni\_048.dlt  
BRIKEN RUN: 048  
Aida RUN: R27\_3  
BigRIPS RUN: 444

Comment:  
Degrader: 0 mm

Histograms cleared.  
There was a sudden increase of rate by a factor of 5 for the last 6 minutes. We decided to stop and put the degraders in. Takechi-group saus they are calibrating the PPACs...

Rates:  
F11R: 400 Hz  
BRIKEN: 180 Hz

Stop time: 20:38  
BRIKEN RUN: 048  
AIDA run: R27\_18  
BigRIPS RUN: 445  
ROOT file: 161110\_2038\_767778Ni\_048.root

174	Thu Nov 10 19:34:45 2016	BRIKEN collaboration	New Measurement		RUN   BRIKEN	047	767778Ni		
-----	--------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

F5 C wedge F7 CH2 F11 C 6mm

Need to restart Gasific

Date 2016/11/10  
Start time: 19:33  
DLT File: 161110\_1933\_767778Ni\_047.dlt  
BRIKEN RUN: 047  
Aida RUN: R27\_6  
BigRIPS RUN: 443

Comment:  
Degrader: 0 mm

Histograms cleared.

Rates:  
F11R: 400 Hz  
BRIKEN: 180 Hz

Stop time: 19:36  
BRIKEN RUN:  
AIDA run:  
BigRIPS RUN:  
ROOT file: 161110\_XXXX\_767778Ni\_045.root

173	Thu Nov 10 19:19:44 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	046	767778Ni		
-----	--------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

CRAP! Now we got the end of the LN2 filling

F5 C wedge F7 CH2 F11 C 6mm

Need to restart Gasific

Date 2016/11/10  
Start time: 19:15  
DLT File: 161110\_1915\_767778Ni\_046.dlt  
BRIKEN RUN: 046  
Aida RUN: R26\_5  
BigRIPS RUN: 443

Comment:  
Degrader: 0 mm

Histograms cleared.

Rates:  
F11R: 400 Hz  
BRIKEN: 180 Hz

Stop time:  
BRIKEN RUN:  
AIDA run:  
BigRIPS RUN:  
ROOT file: 161110\_XXXX\_767778Ni\_045.root

172	Thu Nov 10 18:55:42 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	045	767778Ni		
-----	--------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

CRAP! Problem with Gasific and we have to restart.

F5 C wedge F7 CH2 F11 C 6mm

Date 2016/11/10  
Start time: 18:52  
DLT File: 161110\_1852\_767778Ni\_045.dlt  
BRIKEN RUN: 045  
Aida RUN: R26\_0  
BigRIPS RUN: 443

Comment:  
Degrader: 0 mm

Histograms cleared.

Rates:  
F11R: 400 Hz

12/03/16  
 F11R: 400 Hz  
 BRIKEN: 180 Hz

Stop time: 19:07  
 BRIKEN RUN:  
 AIDA run:  
 BigRIPS RUN:  
 ROOT file: 161110\_XXXX\_767778Ni\_045.root

171	Thu Nov 10 18:04:34 2016	BRIKEN collaboration	How to convert a ridf-file to a root-file	HowTo	BRIKEN				
-----	--------------------------	----------------------	---	-------	--------	--	--	--	--

How to convert .ridf file to .root file

1. Login to briken@ribfana03.riken.jp
  2. Check the ridf-file for conversion in /home/briken16/rawdata/bigrips/  
 =Only if first time=
  3. Start anaroot; type "anarootlogin"
  4. Type your name, and create a folder for you.  
 (name of "bigrips" is for the DAQ team)  
 =/Only if first time=
  5. Start root.
  6. root [ ] .L MakeFullBigRIPSTree BRIKEN.C+  
 (It converts all the event, and it takes half an hour if the size of ridf-file is few GB.)  
 or  
 root [ ] .L MakeFullBigRIPSTree BRIKEN10000.C+  
 (It converts only 10000 events, and it is convenient for checking.)
  7. root [ ] MakeFullBigRIPSTree\_BRIKEN(" input file name ", Brho35, Brho57," output file name")  
 \*Brho35 and Brho57 are written on the link of "file" column in <http://bripscmt01.rarfadv.riken.jp/runsum/index.php>
- For example:  
 root [ ] MakeFullBigRIPSTree\_BRIKEN("radiioff0372.ridf", 7.106, 5.923, "test.root")
8. The output file is created in the same directory.

170	Thu Nov 10 17:56:36 2016	BRIKEN collaboration	new measurement		RUN   BRIKEN	044	767778Ni		
-----	--------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

F5 C wedge F7 empty F11 C 6mm

Date 2016/11/10  
 Start time: 17:52  
 DLT File: 161110\_1752\_767778Ni\_044.dlt  
 BRIKEN RUN: 044  
 Aida RUN: R25\_142  
 BigRIPS RUN: 442

Comment:  
 Degrader: 5.5 mm

Histograms NOT cleared.

Rates:  
 F11R: 400 Hz  
 BRIKEN: 180 Hz

Stop because the time of CLOVER filling is approaching

Stop time: 18:25  
 BRIKEN RUN: 044  
 AIDA run: R25\_149  
 BigRIPS RUN: 442  
 ROOT file: 161110\_1825\_767778Ni\_044.root

169	Thu Nov 10 16:59:24 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	043	767778Ni		
-----	--------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

F5 C wedge F7 empty F11 Empty

Date 2016/11/10  
 Start time: 16:58  
 DLT File: 161110\_1658\_767778Ni\_043.dlt  
 Aida RUN: R25\_130  
 BigRIPS RUN: 441

Comment:  
 Degrader: 5.5 mm

Histograms cleared.

12/03/16  
Histograms cleared.

http://ribf-exp.riken.jp/elog/RIBF123/page?mode=full

#74

Rates:  
F11R: 400 Hz  
BRIKEN: 180 Hz

Stop time: 17:47  
AIDA run: R25\_XXX  
ROOT file: 161110\_1747\_767778Ni\_043.root

168	Thu Nov 10 16:12:15 2016	BRIKEN collaboration	New Measurement		RUN   BRIKEN	042	767778Ni		
-----	--------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

F5 C wedge F7 empty F11 C 6mm

Date 2016/11/10  
Start time: 16:08  
DLT File: 161110\_1608\_767778Ni\_042.dlt  
Aida RUN: R25\_119  
BigRIPS RUN: 440

Comment: F11 Degraders all out  
Degradar: 0 mm

Rates:  
F11R: 400 Hz  
BRIKEN: 180 Hz

Stop time: 16:57  
AIDA run: R25\_129  
ROOT file: 161110\_1657\_767778Ni\_042.root

167	Thu Nov 10 15:29:31 2016	BRIKEN collaboration (RCF)	Web with BigRIPS parameters monitored		BRIKEN				
-----	--------------------------	----------------------------	---------------------------------------	--	--------	--	--	--	--

Useful web page with the parameters of the beam for each BigRIPS run

<http://bripsent01.rarfadv.riken.jp/runsum/index.php>

166	Thu Nov 10 15:26:11 2016	BRIKEN collaboration (RCF)	New Measurement		RUN   BRIKEN	041	767778Ni		
-----	--------------------------	----------------------------	-----------------	--	--------------	-----	----------	--	--

F5 C wedge F7 CH2 F11 C 6mm

Date 2016/11/10  
Start time: 15:16  
DLT File: 161110\_1516\_767778Ni\_041.dlt  
Aida RUN: R25\_99 (continue previous run)  
BigRIPS RUN: 439

Comment: F11 Degraders all out  
Degradar: 0 mm

Rates:  
F11R: 420 Hz  
BRIKEN: 600 Hz

Stop time:  
AIDA run: R25\_118  
ROOT file: 161110\_1605\_767778Ni\_041.root

165	Thu Nov 10 14:22:34 2016	BRIKEN collaboration (ID/RCF)	New measurement		RUN   BRIKEN	040	767778Ni		
-----	--------------------------	-------------------------------	-----------------	--	--------------	-----	----------	--	--

F5 C wedge F7 empty F11 C 6mm  
same as before, continue

Date 2016/11/10  
Start time: 14:19  
DLT File: 161110\_1419\_767778Ni\_040.dlt  
Aida RUN: R25\_96  
BIGRIPS RUN: 438

Comment: F11 Degraders all out  
Degradar: 0 mm

Rates:  
F11R: 440 Hz -> 340 Hz  
BRIKEN: 180 Hz -> 140 Hz

Stop time: They did not stop the file.  
AIDA run: R25\_99  
ROOT file: 161110\_1515\_767778Ni\_040.root

The rates decreased during the file.

164	Thu Nov 10 14:14:49 2016	Hoshino Suharu	measurement from 405 767778Ni F5Cwedge 10mm F7empty F11C plate 6mm			437	767778Ni		F5Cwedge 10mm F7empty F11C plate 6mm
-----	--------------------------	----------------	--	--	--	-----	----------	--	--------------------------------------

163	Thu Nov 10 14:12:02 2016	Hoshino Suharu	measurement from 405 767778Ni F5Cwedge 10mm F7empty F11C plate 6mm			436	767778Ni		F5:C wedge F7:empty F11:C6mm
-----	--------------------------	-------------------	---	--	--	-----	----------	--	------------------------------------

```
d03> start
Run information
Run name   : radiioff
Run number : 436
Run status : START
Start date : 10-Nov-16 13:25:21
Header    : 77Ni F5:C wedge F7:empty F11:C6mm
```

```
d03> stop
Ender :
Run information
Run name   : radiioff
Run number : 436
Run status : IDLE
Start date : 10-Nov-16 13:25:21
Stop date  : 10-Nov-16 14:02:15
Header    : 77Ni F5:C wedge F7:empty F11:C6mm
Ender     :
```

```
Last event number
EFN Nickname EVTN
21 ccnet01   803177
22 ccnet02   803177
23 ccnet03   803177
25 ccnet05   803177
26 ccnet06   803178
27 ccnet07   803177
28 ccnet08   803177
71 F3VME     803177
82 sva02     803177
83 sva03     803177
```

162	Thu Nov 10 13:49:36 2016	Hoshino Suharu	measurement from 405 767778Ni F5Cwedge 10mm F7empty F11C plate 6mm			435	767778Ni		F5:C wedge F7:empty F11:C6mm
-----	--------------------------	-------------------	---	--	--	-----	----------	--	------------------------------------

```
d03> start
Run information
Run name   : radiioff
Run number : 435
Run status : START
Start date : 10-Nov-16 13:21:48
Header    : 77Ni F5:C wedge F7:empty F11:C6mm
```

```
d03> stop
Ender : stop for DAQ stop
Run information
Run name   : radiioff
Run number : 435
Run status : IDLE
Start date : 10-Nov-16 13:21:48
Stop date  : 10-Nov-16 13:22:46
Header    : 77Ni F5:C wedge F7:empty F11:C6mm
Ender     : stop for DAQ stop
```

```
Last event number
EFN Nickname EVTN
21 ccnet01   0
22 ccnet02   0
23 ccnet03   0
25 ccnet05   0
26 ccnet06   0
27 ccnet07   0
28 ccnet08   0
71 F3VME     0
82 sva02     0
83 sva03     0
```

161	Thu Nov 10 13:47:56 2016	Hoshino Suharu	measurement from 405 767778Ni F5Cwedge 10mm F7empty F11C plate 6mm			434	767778Ni		F5:C wedge F7:empty F11:C6mm
-----	--------------------------	-------------------	---	--	--	-----	----------	--	------------------------------------

```
d03> start
Run information
Run name   : radiioff
Run number : 434
Run status : START
Start date : 10-Nov-16 12:26:43
```

```

Start date : 10-Nov-16 12:26:43
Header     : 77Ni F5:C wedge F7:empty F11:C6mm
d03> stop
Ender : stop successfully
Run information
Run name  : radiioff
Run number : 434
Run status : IDLE
Start date : 10-Nov-16 12:26:43
Stop date  : 10-Nov-16 13:21:28
Header     : 77Ni F5:C wedge F7:empty F11:C6mm
Ender     : stop successfully

```

## Last event number

```

EFN Nickname EVTN
21 ccnet01   1779017
22 ccnet02   1779017
23 ccnet03   1779017
25 ccnet05   1779017
26 ccnet06   1779017
27 ccnet07   1779017
28 ccnet08   1779017
71 F3VME     1779017
82 sva02     1779017
83 sva03     1779017

```

160	Thu Nov 10 13:41:49 2016	Hoshino Suharu	measurement from 405 77Ni F5:C wedge F7:empty F11:C6mm			433	767778Ni		F5:C wedge F7:empty F11:C6mm
-----	--------------------------	-------------------	--	--	--	-----	----------	--	------------------------------------

```

d03> start
Run information
Run name  : radiioff
Run number : 433
Run status : START
Start date : 10-Nov-16 12:24:03
Header     : 77Ni F5:C wedge F7:empty F11:C6mm

```

d03&gt; getevtnumber

No event build

d03&gt; getevtnumber

No event build

d03&gt; stop

Ender : stop because of DAQ stop

## Run information

```

Run name  : radiioff
Run number : 433
Run status : IDLE
Start date : 10-Nov-16 12:24:03
Stop date  : 10-Nov-16 12:26:04
Header     : 77Ni F5:C wedge F7:empty F11:C6mm
Ender     : stop because of DAQ stop

```

## Last event number

```

EFN Nickname EVTN
21 ccnet01   0
22 ccnet02   0
23 ccnet03   0
25 ccnet05   0
26 ccnet06   0
27 ccnet07   0
28 ccnet08   0
71 F3VME     0
82 sva02     0
83 sva03     0

```

159	Thu Nov 10 13:38:53 2016	Hoshino Suharu	measurement from 405 77Ni F5:empty F7:CH2 F11:C 6mm			432	767778Ni		F5:empty F7:CH2 F11:C 6mm
-----	--------------------------	-------------------	--	--	--	-----	----------	--	------------------------------

```

d03> wth
Header : 77Ni F5:empty F7:CH2 F11:C 6mm
d03> start

```

## Run information

```

Run name  : radiioff
Run number : 432
Run status : START
Start date : 10-Nov-16 11:51:51
Header     : 77Ni F5:empty F7:CH2 F11:C 6mm

```

d03&gt; getevtnumber

Event built number = 2086

d03&gt; getevtnumber

Event built number = 2682

d03&gt; getevtnumber

Event built number = 4172

d03&gt; getevtnumber

Event built number = 6556

d03&gt; getevtnumber

```
d03> getevtnumber
Event built number = 7152
d03> getevtnumber
Event built number = 7450
d03> stop
Ender : stop
```

```
Run information
Run name : radiioff
Run number : 432
Run status : IDLE
Start date : 10-Nov-16 11:51:51
Stop date : 10-Nov-16 12:20:10
Header : 77Ni F5:empty F7:CH2 F11:C 6mm
Ender : stop
```

Last event number

```
EFN Nickname EVTN
21 ccnet01 888483
22 ccnet02 888483
23 ccnet03 888483
25 ccnet05 888483
26 ccnet06 888483
27 ccnet07 888483
28 ccnet08 888483
71 F3VME 888483
82 sva02 888483
83 sva03 888483
```

158	Thu Nov 10 13:35:49 2016	Hoshino Suharu	measurement from 405 77Ni F5:C wedge F7:empty F11:C 6mm			431	767778Ni		F5:empty F7:CH2 F11:C 6mm
-----	--------------------------	----------------	---	--	--	-----	----------	--	---------------------------

```
d03> start
Run information
Run name : radiioff
Run number : 431
Run status : START
Start date : 10-Nov-16 11:47:45
Header : 77Ni F5:empty F7:CH2 F11:C 6mm
```

```
d03> getevtnumber
No event build
d03> getevtnumber
No event build
```

157	Thu Nov 10 12:45:47 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	039	767778Ni		
-----	--------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

```
F5 C wedge F7 empty F11 C 6mm
Date 2016/11/10
Start time: 12:21
DLT File: 161110_1221_767778Ni_039.dlt
Aida RUN: R25_68
Comment: F11 Degraders all out
Degrader: 0 mm
Rates:
F11R: 450 Hz
BRIKEN: 490 Hz
Stop time: 1417
AIDA run: R25_95
ROOT file: 161110_1417_767778Ni_039.root
```

We stopped because the Takechi guys changed something but obviously nothing was changed, so we restarted.

156	Thu Nov 10 12:14:01 2016	Hoshino Suharu	measurement from 405 77Ni F5:empty F7:CH2 F11:C 6mm stop because of DAQ problem			430	767778Ni		F5:empty F7:CH2 F11:C 6mm
-----	--------------------------	----------------	---	--	--	-----	----------	--	---------------------------

```
d03> wth
Header : 77Ni F5:empty F7:CH2 F11:C 6mm
d03> start
Run information
Run name : radiioff
Run number : 430
Run status : START
Start date : 10-Nov-16 11:13:53
Header : 77Ni F5:empty F7:CH2 F11:C 6mm
```

```
d03> getevtnumber
Event built number = 260154
d03> getevtnumber
Event built number = 260154
d03> getevtnumber
Event built number = 260154
```

```

Event built number = 260154
d03> getevtnumber
Event built number = 260154
d03> getevtnumber
Event built number = 260154
d03> stop
Ender : stop because of DAQ problem
Waiting for run end... (stat=1)
Waiting for run end... (stat=1)
Waiting for run end... (stat=1)
Waiting for run end... (stat=1)
Waiting for run end... (stat=1)
Waiting for run end... (stat=1)
Waiting for run end... (stat=1)
Waiting for run end... (stat=1)
Waiting for run end... (stat=1)

```

155	Thu Nov 10 12:12:20 2016	Hoshino Suharu	measurement from 405 77Ni F5:C wedge F7:empty F11:C 6mm			429	767778Ni		F5:C wedge F7:empty F11:C 6mm
-----	--------------------------	-------------------	---	--	--	-----	----------	--	-------------------------------------

```

d03> wth
Header : 77Ni F5:C wedge F7:empty F11:C 6mm
d03> start
Run information
  Run name   : radiioff
  Run number : 429
  Run status : START
  Start date : 10-Nov-16 10:16:14
  Header    : 77Ni F5:C wedge F7:empty F11:C 6mm

```

```

d03> stop
Ender : stop successfully
Run information
  Run name   : radiioff
  Run number : 429
  Run status : IDLE
  Start date : 10-Nov-16 10:16:14
  Stop date  : 10-Nov-16 11:10:50
  Header    : 77Ni F5:C wedge F7:empty F11:C 6mm
  Ender     : stop successfully

```

```

Last event number
EFN Nickname  EVTN
21 ccnet01    1794118
22 ccnet02    1794118
23 ccnet03    1794118
25 ccnet05    1794118
26 ccnet06    1794118
27 ccnet07    1794118
28 ccnet08    1794118
71 F3VME     1794118
82 sva02     1794118
83 sva03     1794118

```

154	Thu Nov 10 12:10:22 2016	Hoshino Suharu	measurement from 405 77Ni F5:C wedge F7:empty F11:empty			428	77 Ni		
-----	--------------------------	-------------------	---	--	--	-----	-------	--	--

```

d03> wth
Header : 77Ni F5:C wedge F7:empty F11:empty
d03> start
Run information
  Run name   : radiioff
  Run number : 428
  Run status : START
  Start date : 10-Nov-16 09:20:44
  Header    : 77Ni F5:C wedge F7:empty F11:empty

```

```

d03> getevtnumber
Event built number = 28000
d03> getevtnumber
Event built number = 29204
d03> getevtnumber
Event built number = 35164
d03> getevtnumber
Event built number = 35760
d03> stop
Ender : stop successfully
Run information
  Run name   : radiioff
  Run number : 428
  Run status : IDLE
  Start date : 10-Nov-16 09:20:44
  Stop date  : 10-Nov-16 10:15:11
  Header    : 77Ni F5:C wedge F7:empty F11:empty
  Ender     : stop successfully

```



Last event number

EFN Nickname EVTN  
 21 ccnet01 1805405  
 22 ccnet02 1805405  
 23 ccnet03 1805405  
 25 ccnet05 1805405  
 26 ccnet06 1805405  
 27 ccnet07 1805405  
 28 ccnet08 1805405  
 71 F3VME 1805405  
 82 sva02 1805405  
 83 sva03 1805405

153	Thu Nov 10 12:09:24 2016	Hoshino Suharu	measurement from 405 77Ni F5:C wedge F7:empty F11:C 6mm			427	77Ni	F5:C wedge F7:empty F11:C 6mm
-----	--------------------------	-------------------	---	--	--	-----	------	-------------------------------------

d03> wth  
 Header : 77Ni F5:C wedge F7:empty F11:C 6mm

d03> start

Run information

Run name : radiioff  
 Run number : 427  
 Run status : START  
 Start date : 10-Nov-16 08:19:58  
 Header : 77Ni F5:C wedge F7:empty F11:C 6mm

d03>  
 d03> getevtnumber

Event built number = 75096

d03> getevtnumber

Event built number = 76288

d03> getevtnumber

Event built number = 76884

d03> getevtnumber

Event built number = 77480

d03> getevtnumber

Event built number = 77778

d03> getevtnumber

Event built number = 78650

d03> getevtnumber

Event built number = 79268

d03> getevtnumber

Event built number = 242572

d03> stop

Ender : stop successfully

Run information

Run name : radiioff  
 Run number : 427  
 Run status : IDLE  
 Start date : 10-Nov-16 08:19:58  
 Stop date : 10-Nov-16 09:19:24  
 Header : 77Ni F5:C wedge F7:empty F11:C 6mm  
 Ender : stop successfully

Last event number

EFN Nickname EVTN  
 21 ccnet01 1955817  
 22 ccnet02 1955817  
 23 ccnet03 1955817  
 25 ccnet05 1955817  
 26 ccnet06 1955817  
 27 ccnet07 1955817  
 28 ccnet08 1955817  
 71 F3VME 1955817  
 82 sva02 1955817  
 83 sva03 1955817

152	Thu Nov 10 11:22:09 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	038	767778Ni	
-----	--------------------------	-------------------------	--------------------	--	-----------------	-----	----------	--

F5 empty F7 CH2 F11 C 6mm

Date 2016/11/10

Start time: 11:16

DLT File: 161110\_1106\_767778Ni\_038.dlt

Aida RUN: R25\_49

Comment: F11 Degraders all out

Degrader: 0 mm

Rates:

F11R: 320 Hz 400 Hz

12/03/16

http://ribf-exp.riken.jp/elog/RIBF123/page?mode=full

#80

F11R: 320 Hz 400 Hz  
BRIKEN: 650 Hz

Stop time: 12:19  
AIDA run: R25\_65  
ROOT file: 161110\_1219\_767778Ni\_038.root

151	Thu Nov 10 10:22:16 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	037	767778Ni		
-----	--------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

F5 CH2 target F7 no F11 C 6mm

Date 2016/11/10  
Start time: 10:16  
DLT File: 161110\_1016\_767778Ni\_037.dlt  
Aida RUN: R25\_37

Comment: F11 Degraders all out  
Degradar: 0 mm

Rates:  
F11R: 420 Hz  
BRIKEN: 180 Hz

Stop time: 11:09  
AIDA run: R25\_48  
ROOT file: 161110\_1109\_767778Ni\_037.root

150	Thu Nov 10 09:52:10 2016	BRIKEN collaboration	Identified gamma lines		BRIKEN	161110_0820_767778Ni_035	767778Ni		
-----	--------------------------	----------------------	------------------------	--	--------	--------------------------	----------	--	--

The attached PhD thesis from Xu gives the results from the past EURICA campaign in this mass region. See Appendix A (p. 113ff) for details about gamma lines.

In BRIKEN file 161110\_0820\_767778Ni\_035 I have identified the following lines with 1h of collection statistics::  
77Cu decay (t1/2= 477 ms): lines at 115, 505, 599(beta-n) and 958 keV all clearly visible  
78Cu decay (t1/2= 331 ms)= lines at 115 (beta-n), 576, 730, 891, 910 keV: 576 is weak, 730, 891 DP, 910 DP visible  
76Ni decay (t1/2= 244 ms): 276, 481, 1053 keV: 1053 yes, 276 strong (278 keV?), 481 weak  
77Ni decay (t1/2= 159 ms): 831, 946 keV: 946 keV no, 831 maybe  
78Ni decay (t1/2= 122 ms): 80, 157, 283, 985 keV: 157, 283, 985 keV maybe

Attachment 1: [Xu-PhD2014-EURICA.pdf](#)

149	Thu Nov 10 09:27:13 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	036	767778Ni		
-----	--------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

F5 C target F7 no F11 empty

Date 2016/11/10  
Start time: 09:23  
DLT File: 161110\_0923\_767778Ni\_036.dlt  
Aida RUN: R25\_24

Comment: F11 Degraders all in  
Degradar: 5.4 mm

Rates:  
F11R: 450 Hz  
BRIKEN: 190 Hz

Stop time: 10:13  
AIDA run: R25\_36  
ROOT file: 161110\_xxxx\_767778Ni\_036.root

148	Thu Nov 10 09:08:34 2016	Hoshino Suharu	measurement from 405 767778Ni F5 Empty F7 CH2 10mm F11 Empty			426	767778Ni		F5empty F7CH2 plate 10mm F11empty
-----	--------------------------	----------------	--	--	--	-----	----------	--	-----------------------------------

```
start
Run information
  Run name   : radiioff
  Run number : 426
  Run status : START
  Start date : 10-Nov-16 07:15:27
  Header    : 76,77,78Ni F5:empty F7:CH2 F11:empty
```

```
d03> stop
Ender : stop successfully
Run information
  Run name   : radiioff
  Run number : 426
  Run status : IDLE
  Start date : 10-Nov-16 07:15:27
  Stop date  : 10-Nov-16 08:11:40
  Header    : 76,77,78Ni F5:empty F7:CH2 F11:empty
  Ender     : stop successfully
```

Last event number  
EFN Nickname EVTN  
21 ccnet01 1782290  
22 ccnet02 1782290  
23 ccnet03 1782290

23 ccnet03 1782290  
 25 ccnet05 1782290  
 26 ccnet06 1782290  
 27 ccnet07 1782290  
 28 ccnet08 1782290  
 71 F3VME 1782290  
 82 sva02 1782290  
 83 sva03 1782290

147	Thu Nov 10 09:06:29 2016	Hoshino Suharu	measurement from 405 767778Ni F5empty F7CH2 10mm F11C plate 6mm			425	767778Ni		F5 Empty F7 CH2 10mm F11 C 6mm
-----	--------------------------	-------------------	--	--	--	-----	----------	--	--------------------------------------

start

Run information

Run name : radiioff  
 Run number : 425  
 Run status : START  
 Start date : 10-Nov-16 07:12:02  
 Header : 76,77,78Ni F5:empty F7:CH2 F11:C6mm

d03&gt; stop

Ender : stop successfully

Run information

Run name : radiioff  
 Run number : 425  
 Run status : IDLE  
 Start date : 10-Nov-16 07:12:02  
 Stop date : 10-Nov-16 07:14:56  
 Header : 76,77,78Ni F5:empty F7:CH2 F11:C6mm  
 Ender : stop successfully

Last event number

EFN Nickname EVTN  
 21 ccnet01 96424  
 22 ccnet02 96424  
 23 ccnet03 96424  
 25 ccnet05 96424  
 26 ccnet06 96424  
 27 ccnet07 96424  
 28 ccnet08 96424  
 71 F3VME 96424  
 82 sva02 96424  
 83 sva03 96424

146	Thu Nov 10 09:02:50 2016	Hoshino Suharu	measurement from 405 767778Ni F5Cwedge 10mm F7empty F11C plate 6mm			423	767778Ni		F5Cwedge 10mm F7empty F11C plate 6mm
-----	--------------------------	-------------------	---	--	--	-----	----------	--	--

start

Run information

Run name : radiioff  
 Run number : 423  
 Run status : START  
 Start date : 10-Nov-16 06:37:58  
 Header : 76,77,78Ni F5:C wedge F7:empty F11:C 6mm, continue

d03&gt; getevtnumber

Event built number = 133802

d03&gt; getevtnumber

Event built number = 134100

d03&gt;

d03&gt; getevtnumber

Event built number = 134696

d03&gt; getevtnumber

Event built number = 134994

d03&gt; getevtnumber

Event built number = 135292

d03&gt; getevtnumber

Event built number = 593318

d03&gt; getevtnumber

Event built number = 594212

d03&gt; getevtnumber

Event built number = 701790

d03&gt; getevtnumber

Event built number = 702088

d03&gt; getevtnumber

Event built number = 702647

d03&gt; getevtnumber

Event built number = 702982

d03&gt; getevtnumber

Event built number = 703252

d03&gt; getevtnumber

Event built number = 703280

d03&gt; getevtnumber

Event built number = 729504

```

Event built number = 729504
d03> getevtnumber
Event built number = 730100
d03> getevtnumber
Event built number = 730398
d03> getevtnumber
Event built number = 730398
d03> stop
Ender : stop successfully
Run information
Run name : radiioff
Run number : 423
Run status : IDLE
Start date : 10-Nov-16 06:37:58
Stop date : 10-Nov-16 07:04:10
Header : 76,77,78Ni F5:C wedge F7:empty F11:C 6mm, continue
Ender : stop successfully

```

Last event number

```

EFN Nickname EVTN
21 ccnet01 827905
22 ccnet02 827905
23 ccnet03 827905
25 ccnet05 827905
26 ccnet06 827905
27 ccnet07 827905
28 ccnet08 827905
71 F3VME 827905
82 sva02 827905
83 sva03 827905

```

145	Thu Nov 10 08:57:18 2016	Hoshino Suharu	measurement from 405 767778Ni F5Cwedge 10mm F7empty F11C plate 6mm			422	767778Ni		F5Cwedge 10mm F7empty F11C plate 6mm
-----	--------------------------	-------------------	---	--	--	-----	----------	--	--

```

start
Run information
Run name : radiioff
Run number : 422
Run status : START
Start date : 10-Nov-16 06:31:59
Header : 76,77,78Ni F5:C wedge F7:empty F11:C 6mm

```

```

d03> stoo
stoo: No such command
d03> stop
Ender : continue to next run

```

```

Run information
Run name : radiioff
Run number : 422
Run status : IDLE
Start date : 10-Nov-16 06:31:59
Stop date : 10-Nov-16 06:37:29
Header : 76,77,78Ni F5:C wedge F7:empty F11:C 6mm
Ender : continue to next run

```

Last event number

```

EFN Nickname EVTN
21 ccnet01 183584
22 ccnet02 183584
23 ccnet03 183584
25 ccnet05 183584
26 ccnet06 183584
27 ccnet07 183584
28 ccnet08 183584
71 F3VME 183584
82 sva02 183584
83 sva03 183584

```

144	Thu Nov 10 08:56:04 2016	Hoshino Suharu	CCNET trouble! measurement from 405 767778Ni F5Cwedge 10mm F7empty F11C plate 6mm			421	767778Ni		F5Cwedge 10mm F7empty F11C plate 6mm
-----	--------------------------	-------------------	---	--	--	-----	----------	--	--

CCNET trouble!!

```

start
Run information
Run name : radiioff
Run number : 421
Run status : START
Start date : 10-Nov-16 05:20:18
Header : F5 C wedge F7 Empty F11 C 6mm

```

d03> stop



Run information

```

Run name   : radiioff
Run number : 419
Run status : IDLE
Start date : 10-Nov-16 03:18:30
Stop date  : 10-Nov-16 04:18:24
Header     : F5:C wedge F7:Empty
Ender      : F11 C 6mm stop success

```

Last event number

```

EFN Nickname EVTN
21 ccnet01   2041419
22 ccnet02   2041419
23 ccnet03   2041419
25 ccnet05   2041419
26 ccnet06   2041419
27 ccnet07   2041419
28 ccnet08   2041419
71 F3VME     2041419
82 sva02     2041419
83 sva03     2041419

```

141	Thu Nov 10 08:34:08 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	035	767778Ni		
-----	--------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

F5 C target F7 no F11 C 6mm

```

Date 2016/11/10
Start time: 08:20
DLT File: 161110_0820_767778Ni_035.dlt
RUN: 035
Aida RUN: R25_11

```

```

Comment: F11 Degraders taken out after few minutes
Degradar: no

```

```

Rates:
F11R: 450 Hz
BRIKEN: 200 Hz

```

```

Stop time: 09:18
AIDA run: R25_23
ROOT file: 161110_0918_767778Ni_035.root

```

140	Thu Nov 10 08:04:41 2016	Hoshino Suharu	measurement from 405 767778Ni F5 Empty F7 CH2 10mm F11 C 6mm			418	767778Ni		F5 Empty F7 CH2 10mm F11 C 6mm
-----	--------------------------	----------------	--	--	--	-----	----------	--	--------------------------------

start

Run information

```

Run name   : radiioff
Run number : 418
Run status : START
Start date : 10-Nov-16 02:14:54
Header     : F5:empty F7:CH2 F11 C 6mm

```

```

d03> stop
Ender : stop success

```

Run information

```

Run name   : radiioff
Run number : 418
Run status : IDLE
Start date : 10-Nov-16 02:14:54
Stop date  : 10-Nov-16 03:14:13
Header     : F5:empty F7:CH2 F11 C 6mm
Ender      : stop success

```

Last event number

```

EFN Nickname EVTN
21 ccnet01   1912620
22 ccnet02   1912620
23 ccnet03   1912620
25 ccnet05   1912620
26 ccnet06   1912620
27 ccnet07   1912620
28 ccnet08   1912620
71 F3VME     1912620
82 sva02     1912620
83 sva03     1912620

```

139	Thu Nov 10 08:00:09 2016	Hoshino Suharu	measurement from 405 767778Ni F5Cwedge 10mm F7empty F11C plate 6mm			417	767778Ni		F5Cwedge 10mm F7empty F11C plate 6mm
-----	--------------------------	----------------	--	--	--	-----	----------	--	--------------------------------------

```

Run name   : radiioff
Run number : 417
Run status : IDLE

```

Run status : IDLE  
 Start date : 10-Nov-16 01:10:01  
 Stop date : 10-Nov-16 02:11:18  
 Header : F5 and F7 continue F11 C 6mm  
 Ender : stop successfully

## Last event number

EFN Nickname EVTN  
 21 ccnet01 1975356  
 22 ccnet02 1975356  
 23 ccnet03 1975356  
 25 ccnet05 1975356  
 26 ccnet06 1975356  
 27 ccnet07 1975356  
 28 ccnet08 1975356  
 71 F3VME 1975356  
 82 sva02 1975356  
 83 sva03 1975356

138	Thu Nov 10 07:57:49 2016	Hoshino Suharu	measurement from 405 767778Ni F5Cwedge 10mm F7empty F11empty			416	767778Ni		F5Cwedge10mm F7empty F11empty
ANAPAW-M : [TArtFileDataSource] Run name = radiioff ANAPAW-M : [TArtFileDataSource] Run number = 0416 ANAPAW-M : [TArtFileDataSource] Start time = 00:07:03 ANAPAW-M : [TArtFileDataSource] Stop time = 01:07:24 ANAPAW-M : [TArtFileDataSource] Date = 10-Nov-16 ANAPAW-M : [TArtFileDataSource] Header = F5:Cwedge F7:empty F11:empty ANAPAW-M : [TArtFileDataSource] Ender = stop success  PPAC F7-1B is tripped three times. HV of F7-1B:720->710 V									
137	Thu Nov 10 07:53:53 2016	Hoshino Suharu	DAQ problem			415	767778Ni		
ANAPAW-M : [TArtFileDataSource] Run name = radiioff ANAPAW-M : [TArtFileDataSource] Run number = 0415 ANAPAW-M : [TArtFileDataSource] Start time = 00:04:07 ANAPAW-M : [TArtFileDataSource] Stop time = 00:06:19 ANAPAW-M : [TArtFileDataSource] Date = 10-Nov-16 ANAPAW-M : [TArtFileDataSource] Header = F5:Cwedge F7:empty F11:empty ANAPAW-M : [TArtFileDataSource] Ender = stop because of DAQ problem									
136	Thu Nov 10 07:51:18 2016	Hoshino Suharu	measurement from 405 767778Ni F5Cwedge 10mm F7empty F11C plate 6mm			414	767778Ni		F5Cwedge 10mm F7empty F11C plate 6mm
ANAPAW-M : [TArtFileDataSource] Run name = radiioff ANAPAW-M : [TArtFileDataSource] Run number = 0414 ANAPAW-M : [TArtFileDataSource] Start time = 23:01:47 ANAPAW-M : [TArtFileDataSource] Stop time = 00:01:46 ANAPAW-M : [TArtFileDataSource] Date = 10-Nov-16 ANAPAW-M : [TArtFileDataSource] Header = F5:Cwedge F7:empty F11:C6mm ANAPAW-M : [TArtFileDataSource] Ender = stop successfully									
135	Thu Nov 10 07:47:45 2016	Hoshino Suharu	measurement from 405 767778Ni F5 Empty F7 CH2 10mm F11 empty			413	767778Ni		F5empty F7CH2 plate 10mm F11empty
ANAPAW-M : [TArtFileDataSource] Run name = radiioff ANAPAW-M : [TArtFileDataSource] Run number = 0413 ANAPAW-M : [TArtFileDataSource] Start time = 21:57:16 ANAPAW-M : [TArtFileDataSource] Stop time = 22:57:03 ANAPAW-M : [TArtFileDataSource] Date = 09-Nov-16 ANAPAW-M : [TArtFileDataSource] Header = F5 Empty F7 CH2 F11 Empty ANAPAW-M : [TArtFileDataSource] Ender = stop successfully									
134	Thu Nov 10 07:45:19 2016	Hoshino Suharu	measurement from 405 767778Ni F5Cwedge 10mm F7empty F11C plate 6mm			412	767778Ni		F5Cwedge 10mm F7empty F11C plate 6mm
ANAPAW-M : [TArtFileDataSource] Run name = radiioff ANAPAW-M : [TArtFileDataSource] Run number = 0412 ANAPAW-M : [TArtFileDataSource] Start time = 20:53:23 ANAPAW-M : [TArtFileDataSource] Stop time = 21:54:32 ANAPAW-M : [TArtFileDataSource] Date = 09-Nov-16 ANAPAW-M : [TArtFileDataSource] Header = F5:Cwedge F7:Empty F11:C 6mm ANAPAW-M : [TArtFileDataSource] Ender = stop success									
133	Thu Nov 10 07:43:09 2016	Hoshino Suharu	measurement from 405 767778Ni			411	767778Ni		F5Cwedge10mm F7empty F11empty

12/03/15	http://ribf-exp.riken.jp/elog/RIBF123/page?mode=full		#86					
		F5Cwedge10mm F7empty F11empty						
Run name = radiioff ANAPAW-M : [TArtFileDataSource] Run number = 0411 ANAPAW-M : [TArtFileDataSource] Start time = 19:50:42 ANAPAW-M : [TArtFileDataSource] Stop time = 20:52:10 ANAPAW-M : [TArtFileDataSource] Date = 09-Nov-16 ANAPAW-M : [TArtFileDataSource] Header = F5:Cwedge F7:Empty F11:Empty ANAPAW-M : [TArtFileDataSource] Ender = stop successfully								
132	Thu Nov 10 07:39:43 2016	Hoshino Suharu	measurement from 405 767778Ni F5Cwedge 10mm F7empty F11C plate 6mm			410	767778Ni	F5Cwedge 10mm F7empty F11C plate 6mm
Run name = radiioff ANAPAW-M : [TArtFileDataSource] Run number = 0410 ANAPAW-M : [TArtFileDataSource] Start time = 18:49:18 ANAPAW-M : [TArtFileDataSource] Stop time = 19:49:41 ANAPAW-M : [TArtFileDataSource] Date = 09-Nov-16 ANAPAW-M : [TArtFileDataSource] Header = F5:Cwedge F7:Empty F11:C6mm ANAPAW-M : [TArtFileDataSource] Ender = stop successfully								
131	Thu Nov 10 07:38:56 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	034	767778Ni	
F5 C target F7 CH2 F11 out  Date 2016/11/10 Start time: 07:38 DLT File: 161110_0738_767778Ni_034.dlt RUN: 034 Aida RUN: R25_0  Comments: The Time Stamp was reset at 7:38 ! Degrader: 1mm  Rates: F11R: cps BRIKEN: cps  Stop time: 8:12 AIDA run: R25_9 ROOT file: 161110_0814_767778Ni_034.root  AIDA stopped after a few minutes. We had to re-start again.								
130	Thu Nov 10 07:24:00 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	033	767778Ni	
F5 C target F7 CH2 F11 out  Date 2016/11/10 Start time: 07:19 DLT File: 161110_0718_767778Ni_033.dlt RUN: 033 Aida RUN: R24_0  Comments: The Time Stamp was reset at 7.18 because of the LN refilling! Degrader: 1mm  Rates: F11R: cps BRIKEN: cps  Stop time: 7:26 AIDA run: ROOT file: 161110_0726_767778Ni_033.root  AIDA stopped after a few minutes. We had to re-start again.								
129	Thu Nov 10 05:38:15 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	032	767778Ni	
F5 in F7 empty F11 C target  Date 2016/11/10 Start time: 05:30 DLT File: 161110_0530_767778Ni_032.dlt RUN: 032 Aida RUN: R23_163  Comments: Degrader: degraders all out; F5 in  Rates: F11R: 400 cps BRIKEN: 190 cps  Stop time: 6:19								



Stop time: 6:19  
AIDA run: R23\_174  
ROOT file: 161110\_0619\_767778Ni\_032.root

At 6.20 AIDA and BRIKEN were still synchronized. The offset was 320x40ns (AIDA-BRIKEN).

128	Thu Nov 10 03:20:37 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	031	767778Ni		
-----	--------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

F5 in F7 empty F11 C target

Date 2016/11/10  
Start time: 03:18  
DLT File: 161110\_0318\_767778Ni\_031.dlt  
RUN: 031  
Aida RUN: R23\_132

Comments:  
Degradation: degraders all out; F5 in

Rates:  
F11R: 460 cps  
BRIKEN: 200 cps

Stop time: 5:29  
AIDA run: R23\_162  
ROOT file: 161110\_0529\_767778Ni\_031.root

NOTE: at T=33e6 ns, Firefox increased the dead time for a few seconds, so all the rates show a valley at that moment.

127	Thu Nov 10 02:20:39 2016	BRIKEN collaboration	New Measurement		RUN   BRIKEN	030	767778Ni		
-----	--------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

F5 out F7 CH2 F11 in

Date 2016/11/10  
Start time: 02:13  
DLT File: 161110\_0213\_767778Ni\_030.dlt  
RUN: 030  
Aida RUN: R23\_116

Comments:  
Degradation: degraders all out; carbon target in; F5 out

Rates:  
F11R: cps  
BRIKEN: cps

Stop time: 3:14  
AIDA run: R23\_131  
ROOT file: 161110\_0314\_767778Ni\_030.root

126	Thu Nov 10 02:08:16 2016	Hoshino Suharu	measurement from 405 767778Ni F5 Empty F7 CH2 10mm F11 C 6mm			409	767778Ni		F5 Empty F7 CH2 10mm F11 C 6mm
-----	--------------------------	----------------	--	--	--	-----	----------	--	--------------------------------

start  
Run information  
Run name : radiioff  
Run number : 409  
Run status : START  
Start date : 09-Nov-16 17:44:22  
Header : tuning ZDS

d03> stop  
Ender : stop successfully  
Run information  
Run name : radiioff  
Run number : 409  
Run status : IDLE  
Start date : 09-Nov-16 17:44:22  
Stop date : 09-Nov-16 18:46:02  
Header : tuning ZDS  
Ender : stop successfully

Last event number  
EFN Nickname EVTN  
21 ccnet01 2052403  
22 ccnet02 2052403  
23 ccnet03 2052403  
25 ccnet05 2052403  
26 ccnet06 2052403  
27 ccnet07 2052403  
28 ccnet08 2052403  
71 F3VME 2052403  
82 sva02 2052403  
83 sva03 2052403

125	Thu Nov 10 02:06:18 2016	Hoshino	77Ni Dipole			408	767778Ni		F5 Empty F7 CH2 10mm F11 C
-----	--------------------------	---------	-------------	--	--	-----	----------	--	----------------------------



Rates:  
 F11R: 420 cps  
 BRIKEN: 190 cps

Stop time: 2:12  
 AIDA run: R23\_116  
 ROOT file: 161110\_0212\_767778Ni\_029.root

119	Thu Nov 10 00:20:20 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	028	767778Ni		
-----	--------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

F7 Empty F11 Empty

Date 2016/11/10  
 Start time: 00:05  
 DLT File: 161110\_0005\_767778Ni\_028.dlt  
 RUN: 028  
 Aida RUN: R23\_70

Comments:  
 Degradar: 1mm more Al inserted at 00:35

Rates:  
 F11R: 420 cps  
 BRIKEN: 190 cps

Stop time: 01:11  
 AIDA run: R23\_90  
 ROOT file: 161110\_0111\_767778Ni\_028.root

118	Wed Nov 9 23:26:04 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	027	767778Ni		
-----	-------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

F7 CH2 F11 Empty

Start: 23:05  
 Run: 027  
 AIDA run: R023\_44  
 DLT file: 161109\_2305\_767778Ni\_027.dlt

Note run 026 is crap and corresponds to the first bunch of data in the histograms

Rates:  
 F11R: 440 cps  
 BRIKEN: 190 cps

Stop: 00:02  
 AIDA run: R023\_070

ROOT file: 161110\_0002\_767778Ni\_27.root

117	Wed Nov 9 22:07:10 2016	BRIKEN collaboration	New Measurement		RUN   BRIKEN	025	767778Ni		
-----	-------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

F7 CH2 F11 Empty Degradar IN

Start 21:56  
 Run: 025  
 AIDA file: R023\_23  
 DLT file: 161109\_2156\_767778Ni\_025.dlt

Rates:  
 F11R: 470 cps  
 BRIKEN: 250 cps

(Previous online histogram not erased)

Stop: 22:49  
 ROOT file: 161109\_2249\_767778Ni\_025.root

116	Wed Nov 9 21:41:35 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	024	767778Ni		
-----	-------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

F7 Out F1 C-6mm in

Start 21:38  
 Degradar was removed so we implant in AIDA

AIDA did not stop the file was R023\_19

Stop 21:56

ROOT file: 161109\_2156\_767778Ni\_025.dlt

115	Wed Nov 9 20:47:12 2016	Hori Taichi	F1 F2:L30mm ZDS tuning			403	77Ni		
-----	-------------------------	-------------	------------------------	--	--	-----	------	--	--

d03> start  
 Run information  
 Run name : radiioff  
 Run number : 403

```
Run number : 403
Run status : START
Start date : 09-Nov-16 14:50:25
Header      : F1 F2:L30mm
```

```
d03> stop
Ender : slit tuning continue
Run information
Run name  : radiioff
Run number : 403
Run status : IDLE
Start date : 09-Nov-16 14:50:25
Stop date  : 09-Nov-16 14:56:58
Header    : F1 F2:L30mm
Ender     : slit tuning continue
```

## Last event number

```
EFN Nickname EVTN
21 ccnet01    209056
22 ccnet02    209056
23 ccnet03    209056
25 ccnet05    209056
26 ccnet06    209056
27 ccnet07    209056
28 ccnet08    209056
71 F3VME     209056
82 sva02     209056
83 sva03     209056
```

114	Wed Nov 9 20:43:28 2016	Hori Taichi	F1:L30mm F2:L 25mm F5~11 continue tuning in ZDS			402	77Ni		
-----	-------------------------	-------------	--	--	--	-----	------	--	--

```
d03> start
Run information
Run name  : radiioff
Run number : 402
Run status : START
Start date : 09-Nov-16 14:43:45
Header    : F1:L30mm F2:L 25mm F5~11 continue
```

```
d03> stop
Ender : continue slit tuning
Run information
Run name  : radiioff
Run number : 402
Run status : IDLE
Start date : 09-Nov-16 14:43:45
Stop date  : 09-Nov-16 14:49:49
Header    : F1:L30mm F2:L 25mm F5~11 continue
Ender     : continue slit tuning
```

## Last event number

```
EFN Nickname EVTN
21 ccnet01    213421
22 ccnet02    213421
23 ccnet03    213421
25 ccnet05    213421
26 ccnet06    213421
27 ccnet07    213421
28 ccnet08    213421
71 F3VME     213421
82 sva02     213421
83 sva03     213421
```

113	Wed Nov 9 20:36:20 2016	Hoshino Suharu	F1:L30mm F2:L20mm tuning in ZDS from #400			401	77Ni		
-----	-------------------------	-------------------	--	--	--	-----	------	--	--

```
d03> start
Run information
Run name  : radiioff
Run number : 401
Run status : START
Start date : 09-Nov-16 14:36:09
Header    : F1:L30mm F2:L20mm
```

```
d03> stop
Ender : stop success
Run information
Run name  : radiioff
Run number : 401
Run status : IDLE
Start date : 09-Nov-16 14:36:09
Stop date  : 09-Nov-16 14:42:50
Header    : F1:L30mm F2:L20mm
Ender     : stop success
```

## Last event number

```
EFN Nickname EVTN
```

```

EFN Nickname  EVTN
21 ccnet01    231561
22 ccnet02    231561
23 ccnet03    231561
25 ccnet05    231561
26 ccnet06    231561
27 ccnet07    231561
28 ccnet08    231561
71 F3VME     231561
82 sva02     231561
83 sva03     231561

```

112	Wed Nov 9 20:16:36 2016	BRIKEN collaboration	New Measurement		RUN   BRIKEN	023	767778Ni		
-----	-------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

F7 Out F11 Empty  
 At some moment () they put the C-6mm in

Start: 20:12  
 DLT: 161109\_2012\_767778Ni\_023.dlt

Rates:  
 F11R: 450 cps  
 BRIKEN: 190 cps

They have inserted the C-6mm but didnt tell  
 so we were not implanting in AIDA

Stop:2134  
 161109\_2134\_767778Ni\_023.root

111	Wed Nov 9 20:14:41 2016	BRIKEN collaboration	New Measurement		RUN   BRIKEN	022	767778Ni		
-----	-------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

Rubbish!  
 F7 Out F11 Empty

Start 20:06  
 Send Sync pulse immediately after

110	Wed Nov 9 19:17:36 2016	Hori Taichi	77Ni F5:C wedge F7:Empty F11:Empty F1-L 30mm F2-L 15mm			400			77Ni
-----	-------------------------	-------------	---	--	--	-----	--	--	------

```

d03> start
Run information
Run name : radiioff
Run number : 400
Run status : START
Start date : 09-Nov-16 14:29:12
Header : 77Ni F5:C wedge F7:Empty F11:Empty

```

```

d03> stop
Ender :
Run information
Run name : radiioff
Run number : 400
Run status : IDLE
Start date : 09-Nov-16 14:29:12
Stop date : 09-Nov-16 14:35:38
Header : 77Ni F5:C wedge F7:Empty F11:Empty
Ender :

```

```

Last event number
EFN Nickname  EVTN
21 ccnet01    206969
22 ccnet02    206969
23 ccnet03    206969
25 ccnet05    206969
26 ccnet06    206969
27 ccnet07    206969
28 ccnet08    206969
71 F3VME     206969
82 sva02     206969
83 sva03     206969

```

109	Wed Nov 9 19:16:49 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	021	767778Ni		
-----	-------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

F7 OUT F11 C-6mm

Start: 18:57  
 Stop: 19:55

Rates:  
 F11R: 450 cps  
 BRIKEN:190 cps  
 Clovers:500 cps

DLT file: 161109 1857 767778Ni 021.dlt

108	Wed Nov 9 18:25:35 2016	BRIKEN collaboration	New measurement		RUN   BRIKEN	019	767778Ni		
-----	-------------------------	----------------------	-----------------	--	--------------	-----	----------	--	--

F7 CH2 F11 C-6mm

Start: 18:02  
 Send Sync: 18:06  
 Stop: 18:28  
 Problems because of CLOVER filling.

Rates:  
 F11R: 510 cps  
 BRIKEN: 270 cps

DLT file: 161109\_1802\_767778Ni\_019.dlt  
 ROOT file: 161109\_1828\_767778Ni\_019.root

107	Wed Nov 9 18:05:40 2016	Hoshino Suharu	F1:L 30mm			399	77Ni		F5Cwedge10mm F7empty F11empty
-----	-------------------------	----------------	-----------	--	--	-----	------	--	-------------------------------------

d03> start  
 Run information  
 Run name : radiioff  
 Run number : 399  
 Run status : START  
 Start date : 09-Nov-16 14:23:44  
 Header : F1:L 30mm

d03> stop  
 Ender : stop succes  
 Run information  
 Run name : radiioff  
 Run number : 399  
 Run status : IDLE  
 Start date : 09-Nov-16 14:23:44  
 Stop date : 09-Nov-16 14:28:17  
 Header : F1:L 30mm  
 Ender : stop succes

Last event number  
 EFN Nickname EVTN  
 21 ccnet01 127582  
 22 ccnet02 127582  
 23 ccnet03 127582  
 25 ccnet05 127582  
 26 ccnet06 127582  
 27 ccnet07 127582  
 28 ccnet08 127582  
 71 F3VME 127582  
 82 sva02 127582  
 83 sva03 127582

106	Wed Nov 9 18:02:31 2016	BRIKEN collaboration	Test sync		RUN   BRIKEN	018			
-----	-------------------------	----------------------	-----------	--	--------------	-----	--	--	--

Not for analysis!

Start 1745  
 Stop  
 Playing with synchronization  
 Send sync pulse 17:49  
 Send sync pulse 17:55  
 Send sync pulse 17:59

105	Wed Nov 9 17:50:39 2016	Hoshino Suharu	this run is slit tuning F11:empty			398	77Ni		F5Cwedge10mm F7empty F11empty
-----	-------------------------	----------------	-----------------------------------	--	--	-----	------	--	-------------------------------------

d03> start  
 Run information  
 Run name : radiioff  
 Run number : 398  
 Run status : START  
 Start date : 09-Nov-16 14:16:12  
 Header : 77Ni F5:C wedge 10mm F7:Empty

d03> stop  
 Ender : this run is tuning F11:empty  
 Run information  
 Run name : radiioff  
 Run number : 398  
 Run status : IDLE  
 Start date : 09-Nov-16 14:16:12  
 Stop date : 09-Nov-16 14:22:17  
 Header : 77Ni F5:C wedge 10mm F7:Empty  
 Ender : this run is tuning F11:empty

Last event number  
 EFN Nickname EVTN

```

EFN Nickname  EVTN
21 ccnet01    307790
22 ccnet02    307790
23 ccnet03    307790
25 ccnet05    307790
26 ccnet06    307790
27 ccnet07    307790
28 ccnet08    307790
71 F3VME      307790
82 sva02      307790
83 sva03      307790

```

104	Wed Nov 9 17:49:31 2016	Hoshino Suharu	this run is slit tuning F1:L 50mm			397	77Ni		F5Cwedge10mm F7empty F11empty
-----	-------------------------	-------------------	---	--	--	-----	------	--	-------------------------------------

```

d03> start
Run information
Run name   : radiioff
Run number : 397
Run status : START
Start date : 09-Nov-16 14:00:31
Header    : 77Ni

```

```

d03> stop
Ender : this run is tuning F1:L 50mm
Run information
Run name   : radiioff
Run number : 397
Run status : IDLE
Start date : 09-Nov-16 14:00:31
Stop date  : 09-Nov-16 14:14:50
Header    : 77Ni
Ender     : this run is tuning F1:L 50mm

```

```

Last event number
EFN Nickname  EVTN
21 ccnet01    702154
22 ccnet02    702154
23 ccnet03    702154
25 ccnet05    702154
26 ccnet06    702154
27 ccnet07    702154
28 ccnet08    702154
71 F3VME      702154
82 sva02      702154
83 sva03      702154

```

103	Wed Nov 9 17:10:07 2016	BRIKEN collaboration Roger, Jorge, Jose, Ale	Sync pulse sent		DAQ				
-----	-------------------------	---	-----------------	--	-----	--	--	--	--

Sync pulsed sent at 17:07  
 We found that the dacqs were not synchronized, possibly all data taken during the morning are not correlated.

102	Wed Nov 9 16:14:13 2016	BRIKEN collaboration: Iris, Ale, Oscar, Tom	BRIKEN run		BRIKEN		767778Ni		
-----	-------------------------	--	------------	--	--------	--	----------	--	--

```

Start 16:14
Stop 17:25

Setup:
- no Target @ F7 (but at F5)
- C 6mm @ F11

They changed settings towards the end of the file
Also we had to send a sync pulse because we realized
dacqs were not synchronized.

```

```

BRIKEN:
-Run number: 016
-Root file: 161109_xxxx_767778Ni_016.root
-dlt: 161109_1507_767778Ni_016.dlt
-Conf: 161107

```

```

AIDA:
-Run: R15

```

```

Rates (Hz):
F11: 450 Hz
Clovers: 500 Hz
F11-BRIKEN:
BRIKEN: 180 Hz
VETO-T: 220 Hz
VETO-B: 110 Hz
AIDA:

```

101	Wed Nov 9 15:19:50 2016	BRIKEN collaboration: Iris, Oscar	BRIKEN		BRIKEN		767778Ni		
-----	-------------------------	---	--------	--	--------	--	----------	--	--

Start 15:07  
 Stop 16:05  
 At around 26e6 ms we removed the degrader- rates in AIDA DSSD 4-6 increased (were almost 0 in DSSD6 before), as well as AIDA plastic. We put the degrader back in.

Setup:  
 - no Target @ F7 (but at F5)  
 - no target (empty) @ F11

BRIKEN:  
 -Run number: 015  
 -Root file: 161109\_1607\_767778Ni\_015.root  
 -dlt: 161109\_1507\_767778Ni\_015.dlt  
 -Conf: 161107

AIDA:  
 -Run: R14

Rates (Hz):  
 F11: 480 Hz  
 Clovers: 480 Hz  
 F11-BRIKEN:  
 BRIKEN: 200 Hz  
 VETO-T: 30 Hz  
 VETO-B: 24 Hz  
 AIDA:

100	Wed Nov 9 14:21:06 2016	BRIKEN collaboration: Iris, Ale	BRIKEN clovers: comparison		BRIKEN		747576Ni	
-----	-------------------------	---------------------------------	----------------------------	--	--------	--	----------	--

We compared clovers D4 (left upstream) and G7 (right upstream). D4 is shown in black, G7 in red. G7 is less intense since only 3 out of 4 crystals are operating. We identify some lines which are stronger in G7(red) than in D4(black). Our assumption is that these are coming from isotopes which are implanted much closer to G7.

Some of these lines are: 277 keV (could be from 78Ge-> 78As); 614 keV (from 78As->78Se); 619 keV (from 78Ga->78Ge). This hypothesis needs to be checked with the implantation pattern in the LISE file.

Some other lines are barely visible in G7 but visible in D4, e.g. 885 keV, 1095 keV. These could be A~70,71 isotopes.

One strange thing is visible at 2354 keV: D4 (black) shows a rather broad peak at this energy and at at 2226 keV but the G7 (red) shows a normal peak at 2352 and 2223 keV. Has anyone an explanation for this? The pulser is only in G7 and we see the sharp lines at 2667, 5120, and 6331 keV (pulser in 3 crystals).

Attachment 1: [161109\\_747576Ni-014-277keV.pdf](#)

Attachment 2: [161109\\_747576Ni-014-613-619keV.pdf](#)

Attachment 3: [161109\\_747576Ni-014-613-860keV.pdf](#)

Attachment 4: [161109\\_747576Ni-014-2354keV.pdf](#)

99	Wed Nov 9 11:32:56 2016	Hoshino Suharu	PPAC calib from 375			382	747576Ni	F5Cwedge10mm F7empty F11empty
----	-------------------------	----------------	---------------------	--	--	-----	----------	-------------------------------------

```
start
Run information
Run name : radiioff
Run number : 382
Run status : START
Start date : 09-Nov-16 11:00:50
Header : PPAC calib., F5slit +70mm+-1mm
```

```
d03> stop
Ender : stop successfully
Run information
Run name : radiioff
Run number : 382
Run status : IDLE
Start date : 09-Nov-16 11:00:50
Stop date : 09-Nov-16 11:03:21
Header : PPAC calib., F5slit +70mm+-1mm
Ender : stop successfully
```

```
Last event number
EFN Nickname EVTN
21 ccnet01 168847
22 ccnet02 168847
23 ccnet03 168847
25 ccnet05 168847
26 ccnet06 168847
27 ccnet07 168847
28 ccnet08 168847
71 F3VME 168847
82 sva02 168847
83 sva03 168847
```

98	Wed Nov 9 11:32:17 2016	Hoshino Suharu	PPAC calib from 375			381	747576Ni	F5Cwedge10mm F7empty F11empty
----	-------------------------	----------------	---------------------	--	--	-----	----------	-------------------------------------



```
start
Run information
Run name : radiioff
Run number : 381
Run status : START
Start date : 09-Nov-16 10:59:21
Header : PPAC calib., F5slit +80mm+-1mm
```

```
d03> stop
Ender : stop successfully
Run information
Run name : radiioff
Run number : 381
Run status : IDLE
Start date : 09-Nov-16 10:59:21
Stop date : 09-Nov-16 11:00:01
Header : PPAC calib., F5slit +80mm+-1mm
Ender : stop successfully
```

```
Last event number
EFN Nickname EVTN
21 ccnet01 44602
22 ccnet02 44602
23 ccnet03 44602
25 ccnet05 44602
26 ccnet06 44602
27 ccnet07 44602
28 ccnet08 44602
71 F3VME 44602
82 sva02 44602
83 sva03 44602
```

97	Wed Nov 9 11:31:32 2016	Hoshino Suharu	PPAC calib from 375			380	747576Ni		F5Cwedge10mm F7empty F11empty
----	-------------------------	-------------------	------------------------	--	--	-----	----------	--	-------------------------------------

```
start
Run information
Run name : radiioff
Run number : 380
Run status : START
Start date : 09-Nov-16 10:57:23
Header : PPAC calib., F5slit +50mm+-1mm
```

```
d03> stop
Ender : stop successfully
Run information
Run name : radiioff
Run number : 380
Run status : IDLE
Start date : 09-Nov-16 10:57:23
Stop date : 09-Nov-16 10:57:59
Header : PPAC calib., F5slit +50mm+-1mm
Ender : stop successfully
```

```
Last event number
EFN Nickname EVTN
21 ccnet01 38293
22 ccnet02 38293
23 ccnet03 38293
25 ccnet05 38293
26 ccnet06 38293
27 ccnet07 38293
28 ccnet08 38293
71 F3VME 38293
82 sva02 38293
83 sva03 38293
```

96	Wed Nov 9 11:29:27 2016	Hoshino Suharu	PPAC calib from 375			379	747576Ni		F5Cwedge10mm F7empty F11empty
----	-------------------------	-------------------	------------------------	--	--	-----	----------	--	-------------------------------------

```

start
Run information
Run name : radiioff
Run number : 379
Run status : START
Start date : 09-Nov-16 10:42:54
Header : PPAC calib., F5slit +19mm+-1mm

```

```

d03> stop
Ender : stop successfully
Run information
Run name : radiioff
Run number : 379
Run status : IDLE
Start date : 09-Nov-16 10:42:54
Stop date : 09-Nov-16 10:43:58
Header : PPAC calib., F5slit +19mm+-1mm
Ender : stop successfully

```

```

Last event number
EFN Nickname EVTN
21 ccnet01 63152
22 ccnet02 63152
23 ccnet03 63152
25 ccnet05 63152
26 ccnet06 63152
27 ccnet07 63152
28 ccnet08 63152
71 F3VME 63152
82 sva02 63152
83 sva03 63152

```

95	Wed Nov 9 11:27:51 2016	Hoshino Suharu	PPAC calib from 375			378	747576Ni		F5Cwedge10mm F7empty F11empty
----	-------------------------	----------------	---------------------	--	--	-----	----------	--	-------------------------------------

```

start
Run information
Run name : radiioff
Run number : 378
Run status : START
Start date : 09-Nov-16 10:37:29
Header : PPAC calib., F5slit -50mm+-1mm

```

```

d03> stop
Ender : stop successfully
Run information
Run name : radiioff
Run number : 378
Run status : IDLE
Start date : 09-Nov-16 10:37:29
Stop date : 09-Nov-16 10:41:01
Header : PPAC calib., F5slit -50mm+-1mm
Ender : stop successfully

```

```

Last event number
EFN Nickname EVTN
21 ccnet01 240605
22 ccnet02 240605
23 ccnet03 240605
25 ccnet05 240605
26 ccnet06 240605
27 ccnet07 240605
28 ccnet08 240605
71 F3VME 240605
82 sva02 240605
83 sva03 240605

```

94	Wed Nov 9 11:26:10 2016	Hoshino Suharu	PPAC calib from 375			377	747576Ni		F5Cwedge10mm F7empty F11empty
----	-------------------------	----------------	---------------------	--	--	-----	----------	--	-------------------------------------

```

start
Run information
Run name   : radiioff
Run number : 377
Run status : START
Start date : 09-Nov-16 10:35:01
Header    : PPAC calib., F5slit -19mm+-1mm L is negative

```

```

d03> stop
Ender : stop successfully
Run information
Run name   : radiioff
Run number : 377
Run status : IDLE
Start date : 09-Nov-16 10:35:01
Stop date  : 09-Nov-16 10:36:35
Header    : PPAC calib., F5slit -19mm+-1mm L is negative
Ender     : stop successfully

```

```

Last event number
EFN Nickname EVTN
21 ccnet01    110498
22 ccnet02    110498
23 ccnet03    110498
25 ccnet05    110498
26 ccnet06    110498
27 ccnet07    110498
28 ccnet08    110498
71 F3VME      110498
82 sva02      110498
83 sva03      1104

```

93	Wed Nov 9 11:25:14 2016	Hoshino Suharu	PPAC calib from 375			376	747576Ni		F5Cwedge10mm F7empty F11empty
----	-------------------------	-------------------	------------------------	--	--	-----	----------	--	-------------------------------------

```

start
Run information
Run name   : radiioff
Run number : 376
Run status : START
Start date : 09-Nov-16 10:32:47
Header    : PPAC calib., F5slit 0mm+-20mm

```

```

d03> stop
Ender : stop successfully
Run information
Run name   : radiioff
Run number : 376
Run status : IDLE
Start date : 09-Nov-16 10:32:47
Stop date  : 09-Nov-16 10:33:43
Header    : PPAC calib., F5slit 0mm+-20mm
Ender     : stop successfully

```

```

Last event number
EFN Nickname EVTN
21 ccnet01    60951
22 ccnet02    60951
23 ccnet03    60951
25 ccnet05    60951
26 ccnet06    60951
27 ccnet07    60951
28 ccnet08    60951
71 F3VME      60951
82 sva02      60951
83 sva03      60951

```

92	Wed Nov 9 11:22:54 2016	Hoshino Suharu	PPAC calib from here			375	747576Ni		F5Cwedge10mm F7empty F11empty
----	-------------------------	-------------------	-------------------------	--	--	-----	----------	--	-------------------------------------

```
start
Run information
Run name   : radiioff
Run number : 375
Run status : START
Start date : 09-Nov-16 10:30:45
Header    : PPAC calib., F5slit 0mm +-1mm
```

```
d03> stop
Ender : stop successfully
Run information
Run name   : radiioff
Run number : 375
Run status : IDLE
Start date : 09-Nov-16 10:30:45
Stop date  : 09-Nov-16 10:32:04
Header    : PPAC calib., F5slit 0mm +-1mm
Ender     : stop successfully
```

```
Last event number
EFN Nickname EVTN
21 ccnet01   88914
22 ccnet02   88914
23 ccnet03   88914
25 ccnet05   88914
26 ccnet06   88914
27 ccnet07   88914
```

91	Wed Nov 9 11:20:01 2016	Hoshino Suharu	measurement from here 747576Ni F5Cwedge10mm F7empty F11empty			374	747576Ni	F5Cwedge10mm F7empty F11empty
----	-------------------------	-------------------	---	--	--	-----	----------	-------------------------------------

```
start
Run information
Run name   : radiioff
Run number : 374
Run status : START
Start date : 09-Nov-16 09:47:14
Header    : 75Ni F5:C wedge 10mm F7:empty 10mm F11:C 6mm
```

```
d03> stop
Ender : stop successfully headerF11C6mm->F11empty
Run information
Run name   : radiioff
Run number : 374
Run status : IDLE
Start date : 09-Nov-16 09:47:14
Stop date  : 09-Nov-16 10:25:26
Header    : 75Ni F5:C wedge 10mm F7:empty 10mm F11:C 6mm
Ender     : stop successfully headerF11C6mm->F11empty
```

```
Last event number
EFN Nickname EVTN
21 ccnet01   2490330
22 ccnet02   2490330
23 ccnet03   2490330
25 ccnet05   2490330
26 ccnet06   2490330
27 ccnet07   2490330
28 ccnet08   2490330
71 F3VME     2490330
82 sva02     2490330
83 sva03     2490330
```

90	Wed Nov 9 11:18:29 2016	Hoshino Suharu	measurement from 372 747576Ni F5Cwedge 10mm F7empty F11C plate 6mm			373	747576Ni	F5Cwedge 10mm F7empty F11C plate 6mm
----	-------------------------	-------------------	---	--	--	-----	----------	--

```
start
Run information
Run name   : radiioff
Run number : 373
Run status : START
Start date : 09-Nov-16 09:09:26
Header    : 75Ni F5:C wedge 10mm F7:empty 10mm F11:C 6mm
```

```
d03> stop
Ender : stop successfully
Run information
Run name   : radiioff
Run number : 373
Run status : IDLE
Start date : 09-Nov-16 09:09:26
Stop date  : 09-Nov-16 09:45:57
Header    : 75Ni F5:C wedge 10mm F7:empty 10mm F11:C 6mm
```

Header : 75Ni F5:C wedge 10mm F7:empty 10mm F11:C 6mm  
 Ender : stop successfully

## Last event number

EFN Nickname EVTN  
 21 ccnet01 2414705  
 22 ccnet02 2414705  
 23 ccnet03 2414705  
 25 ccnet05 2414705  
 26 ccnet06 2414705  
 27 ccnet07 2414705  
 28 ccnet08 2414705  
 71 F3VME 2414705  
 82 sva02 2414705  
 83 sva03 2414705

89	Wed Nov 9 11:16:44 2016	Hoshino Suharu	measurement from here 747576Ni F5Cwedge10mm F7empty F11C plate 6mm			372	747576Ni		F5Cwedge 10mm F7empty F11C plate 6mm
----	-------------------------	-------------------	---	--	--	-----	----------	--	--

## start

## Run information

Run name : radiioff  
 Run number : 372  
 Run status : START  
 Start date : 09-Nov-16 08:28:14  
 Header : 75Ni F5:C wedge 10mm F7:empty 10mm F11:C 6mm

## d03&gt; stop

Ender : stop successfully

## Run information

Run name : radiioff  
 Run number : 372  
 Run status : IDLE  
 Start date : 09-Nov-16 08:28:14  
 Stop date : 09-Nov-16 09:08:37  
 Header : 75Ni F5:C wedge 10mm F7:empty 10mm F11:C 6mm  
 Ender : stop successfully

## Last event number

EFN Nickname EVTN  
 21 ccnet01 2826271  
 22 ccnet02 2826271  
 23 ccnet03 2826271  
 25 ccnet05 2826271  
 26 ccnet06 2826271  
 27 ccnet07 2826271  
 28 ccnet08 2826271  
 71 F3VME 2826271  
 82 sva02 2826271  
 83 sva03 2826271

88	Wed Nov 9 10:21:56 2016	Hoshino Suharu	measurement from 370 747576Ni F5Cwedge10mm F7empty F11empty			371	747576Ni		F5Cwedge10mm F7empty F11empty
----	-------------------------	-------------------	--	--	--	-----	----------	--	-------------------------------------

## start

## Run information

Run name : radiioff  
 Run number : 371  
 Run status : START  
 Start date : 09-Nov-16 07:38:22  
 Header : 75Ni F5:empty F7:CH2 10mm F11:C 6mm

## d03&gt; stop

Ender : stop successfully

## Run information

Run name : radiioff  
 Run number : 371  
 Run status : IDLE  
 Start date : 09-Nov-16 07:38:22  
 Stop date : 09-Nov-16 08:24:10  
 Header : 75Ni F5:empty F7:CH2 10mm F11:C 6mm  
 Ender : stop successfully

## Last event number

EFN Nickname EVTN  
 21 ccnet01 3121442  
 22 ccnet02 3121442  
 23 ccnet03 3121442  
 25 ccnet05 3121442  
 26 ccnet06 3121442  
 27 ccnet07 3121442  
 28 ccnet08 3121442  
 71 F3VME 3121442  
 82 sva02 3121442

82 sva02 3121442  
83 sva03 3121442

87	Wed Nov 9 10:07:02 2016	Hoshino Suharu	measurement from here 747576Ni F5empty F7CH2 plate 10mm F11empty			370	747576Ni		F5empty F7CH2 plate 10mm F11empty
----	-------------------------	-------------------	---	--	--	-----	----------	--	---

start

## Run information

Run name : radiioff  
Run number : 370  
Run status : START  
Start date : 09-Nov-16 07:14:56  
Header : 75Ni F5:empty F7:CH2 10mm F11: empty

d03&gt; stop

Ender : stop successfully

## Run information

Run name : radiioff  
Run number : 370  
Run status : IDLE  
Start date : 09-Nov-16 07:14:56  
Stop date : 09-Nov-16 07:36:35  
Header : 75Ni F5:empty F7:CH2 10mm F11: empty  
Ender : stop successfully

## Last event number

EFN Nickname EVTN  
21 ccnet01 1510384  
22 ccnet02 1510384  
23 ccnet03 1510384  
25 ccnet05 1510384  
26 ccnet06 1510384  
27 ccnet07 1510384  
28 ccnet08 1510384  
71 F3VME 1510384  
82 sva02 1510384  
83 sva03 1510384

86	Wed Nov 9 09:53:07 2016	BRIKEN collaboration: Iris, Ale, Oscar	New run, no target at F11		BRIKEN		747576Ni		
----	-------------------------	---	------------------------------	--	--------	--	----------	--	--

Start 9:48

Stop 10:26

## Setup:

- no Target @ F7 (but at F5)  
- no target @ F11

## BRIKEN:

-Run number: 014  
-Root file: 161109\_1026\_747576Ni\_014.root  
-dlt: 161109\_0948\_747576Ni\_013.dlt  
-Conf: 161107

## AIDA:

-Run: R13

## Rates (Hz):

F11: ~1k

## HPGe:

F11-BRIKEN:

BRIKEN:

VETO-T:

VETO-B:

AIDA:

85	Wed Nov 9 09:47:17 2016	BRIKEN collaboration: Iris, Ale	BRIKEN: identified gamma lines		BRIKEN		747576Ni		
----	-------------------------	---------------------------------------	-----------------------------------	--	--------	--	----------	--	--

We have identified the following gamma-lines (after approx. 45min running) from the decays of 74,75,76Ni

## 74Ni into 74Cu:

There are 2 unplaced lines from the decay of 74Ni into 74Cu at 166 keV and 694 keV. We see both of them in nice statistics! The 694 keV line is a doublet with a line at 698 keV. The 166 keV line could be also in 73Co (see ENSDF entry but this conclusion was rejected since the PIn value would then be 30% (much higher than calculated).

## 75Ni into 75Cu:

there is nothing in ENSDF, see A. Negret and B. Singh, Nucl. Data Sheet 114 (2013). There are two possible lines known 75Cu at 61.7 and 66.2 keV (possible spins 1/2- or 3/2-). We did not see these lines. The spin of 75Ni is 7/2+.

We see lines from the decay of 75Cu into 75Zn:

192.7 keV (I~50%)

420.5 keV (I=100%)

723.8 keV (I~71%)

See attached Mazzocchi PLB 2005 for isomeric decay of <sup>76</sup>Ni:  
We see the lines from the decay of the 8+ microsecond isomer, need to collect more statistics to see the 354 keV line (6+ to 4+ decay)

8+ -> 6+: ~144 keV (PLB: 144 keV); isomer with t<sub>1/2</sub>= 0.59 μs +18-11  
6+ -> 4+: ? (PLB: 354 keV)  
4+ -> 2+: ~928 keV (PLB: 930 keV)  
2+ -> 0+: ~993 keV (PLB: 992 keV)

Info from ENSDF:

Ey (keV)	Elevel (keV)	Iy# (%)
144 2	2420	92 38
354 2	2276	54 25
930 2	1922	97 46
992 2	992	100 33

Attachment 1: [Mazzochi-PLB2005.pdf](#)

84	Wed Nov 9 09:42:29 2016	Hoshino Suharu	747576Ni tuning F5empty F7CH2 plate 10mm F11empty			369	747576Ni		F5empty F7CH2 plate 10mm F11empty
----	-------------------------	-------------------	--	--	--	-----	----------	--	---

```
start
Run information
Run name   : radiioff
Run number : 369
Run status : START
Start date : 09-Nov-16 07:04:45
Header    : 75Ni F5:empty F7:CH2 10mm F11:C empty
```

```
d03> stop
Ender : this run was for ZDS tuning
Run information
Run name   : radiioff
Run number : 369
Run status : IDLE
Start date : 09-Nov-16 07:04:45
Stop date  : 09-Nov-16 07:14:11
Header    : 75Ni F5:empty F7:CH2 10mm F11:C empty
Ender     : this run was for ZDS tuning
```

Last event number

EFN Nickname	EVTN
21 ccnet01	603170
22 ccnet02	603170
23 ccnet03	603170
25 ccnet05	603170
26 ccnet06	603170
27 ccnet07	603170
28 ccnet08	603170
71 F3VME	603170
82 sva02	603170
83 sva03	603170

83	Wed Nov 9 09:03:25 2016	Hoshino Suharu	measurement from 367 747576Ni F5Cwedge10mm F7empty F11empty			368	747576Ni		F5Cwedge10mm F7empty F11empty
----	-------------------------	-------------------	--	--	--	-----	----------	--	-------------------------------------

```
start
Run information
Run name   : radiioff
Run number : 368
Run status : START
Start date : 09-Nov-16 06:30:32
Header    : the same condition as the previous run
```

```
d03> stop
Ender : stop successfully
Run information
Run name   : radiioff
Run number : 368
Run status : IDLE
Start date : 09-Nov-16 06:30:32
Stop date  : 09-Nov-16 07:01:21
Header    : the same condition as the previous run
Ender     : stop successfully
```

Last event number

EFN Nickname	EVTN
21 ccnet01	1960366
22 ccnet02	1960366
23 ccnet03	1960366
25 ccnet05	1960366
26 ccnet06	1960366
27 ccnet07	1960366
28 ccnet08	1960366

28 ccnet08 1960366  
 71 F3VME 1960366  
 82 sva02 1960366  
 83 sva03 1960366

82	Wed Nov 9 08:53:25 2016	BRIKEN collaboration	BRIKEN New run		BRIKEN		747576Ni		
----	-------------------------	----------------------	----------------	--	--------	--	----------	--	--

Start 8:28  
 Stop 9:46

Setup:  
 -no Target @ F7  
 - 6 mm C @ F11

BRIKEN:  
 -Run number: 013  
 -Root file: 161109\_0828\_747576Ni\_013.root  
 -dlt: 161109\_0946\_747576Ni\_013.dlt  
 -Conf: 161107

AIDA:  
 -Run: R12

Rates (Hz):  
 F11: ~1k  
 HPGe:  
 F11-BRIKEN:  
 BRIKEN:  
 VETO-T:  
 VETO-B:  
 AIDA:

81	Wed Nov 9 08:52:48 2016	Hoshino Suharu	measurement from here 747576Ni F5Cwedge10mm F7empty F11empty			367	747576Ni		F5Cwedge10mm F7empty F11empty
----	-------------------------	----------------	--	--	--	-----	----------	--	-------------------------------------

start

Run information

Run name : radiioff  
 Run number : 367  
 Run status : START  
 Start date : 09-Nov-16 06:04:32  
 Header : 75Ni F5:C wedge F7:empty F11:C empty start measurement

d03>

d03> stop

Ender : continue to next run

Run information

Run name : radiioff  
 Run number : 367  
 Run status : IDLE  
 Start date : 09-Nov-16 06:04:32  
 Stop date : 09-Nov-16 06:30:04  
 Header : 75Ni F5:C wedge F7:empty F11:C empty start measurement  
 Ender : continue to next run

Last event number

EFN Nickname EVTN  
 21 ccnet01 1785302  
 22 ccnet02 1785302  
 23 ccnet03 1785302  
 25 ccnet05 1785302  
 26 ccnet06 1785302  
 27 ccnet07 1785302  
 28 ccnet08 1785302  
 71 F3VME 1785302  
 82 sva02 1785302  
 83 sva03 1785302

80	Wed Nov 9 08:51:54 2016	Hoshino Suharu	measurement from 362 747576Ni F5Cwedge10mm F7empty F11C plate 6mm			366	747576Ni		F5Cwedge 10mm F7empty F11C plate 6mm
----	-------------------------	----------------	---	--	--	-----	----------	--	--

start

Run information

Run name : radiioff  
 Run number : 366  
 Run status : START  
 Start date : 09-Nov-16 06:00:24  
 Header : continue to previous run

d03> stop

Ender :



```

Ender :
Run information
Run name  : radiioff
Run number : 366
Run status : IDLE
Start date : 09-Nov-16 06:00:24
Stop date  : 09-Nov-16 06:03:43
Header    : continue to previous run
Ender    :

```

Last event number

```

EFN Nickname EVTN
21 ccnet01   229498
22 ccnet02   229498
23 ccnet03   229498
25 ccnet05   229498
26 ccnet06   229498
27 ccnet07   229498
28 ccnet08   229498
71 F3VME     229498
82 sva02     229498
83 sva03     229498

```

79	Wed Nov 9 08:50:31 2016	BRIKEN collaboration	BRIKEN: new run		BRIKEN		747576Ni		
----	-------------------------	----------------------	-----------------	--	--------	--	----------	--	--

Restart after AIDA crash

```

Start 8:14
Stop ~8:22

```

```

Setup:
-CH2 Target @ F7
- 6 mm C @ F11

```

```

BRIKEN:
-Run number: 012
-Root file: 161109_0822_747576Ni_012.root
-dlt: 161109_0704_747576Ni_012.dlt
-Conf: 161107

```

```

AIDA:
-Run: R11

```

```

Rates (Hz):
F11:
HPGe:
F11-BRIKEN:
BRIKEN:
VETO-T:
VETO-B:
AIDA:

```

78	Wed Nov 9 08:44:13 2016	Hoshino Suharu	measurement from 362 747576Ni F5Cwedge 10mm F7empty F11C plate 6mm			365	747576Ni		F5Cwedge 10mm F7empty F11C plate 6mm
----	-------------------------	----------------	--	--	--	-----	----------	--	--------------------------------------

```

start
Run information
Run name  : radiioff
Run number : 365
Run status : START
Start date : 09-Nov-16 05:13:47
Header    : the same condition as the previous run, start again

```

```

d03> stop
Ender : stop successfully
Run information
Run name  : radiioff
Run number : 365
Run status : IDLE
Start date : 09-Nov-16 05:13:47
Stop date  : 09-Nov-16 05:58:44
Header    : the same condition as the previous run, start again
Ender    : stop successfully

```

Last event number

```

EFN Nickname EVTN
21 ccnet01   3074849
22 ccnet02   3074849
23 ccnet03   3074849
25 ccnet05   3074849
26 ccnet06   3074849
27 ccnet07   3074849

```

```

28 ccnet08   3074849

```

28 ccnet08 3074849  
 71 F3VME 3074849  
 82 sva02 3074849  
 83 sva03 3074849

77	Wed Nov 9 08:16:59 2016	Hoshino Suharu	measurement from 362 747576Ni F5Cwedge 10mm F7empty F11C plate 6mm			364	747576Ni		F5Cwedge 10mm F7empty F11C plate 6mm
----	-------------------------	-------------------	---	--	--	-----	----------	--	--

start

## Run information

Run name : radiioff  
 Run number : 364  
 Run status : START  
 Start date : 09-Nov-16 04:59:10  
 Header : the same condition as the previous run

d03&gt; stop

Ender : RF down in RRC

## Run information

Run name : radiioff  
 Run number : 364  
 Run status : IDLE  
 Start date : 09-Nov-16 04:59:10  
 Stop date : 09-Nov-16 05:07:39  
 Header : the same condition as the previous run  
 Ender : RF down in RRC

## Last event number

EFN Nickname EVTN  
 21 ccnet01 523462  
 22 ccnet02 523462  
 23 ccnet03 523462  
 25 ccnet05 523462  
 26 ccnet06 523462  
 27 ccnet07 523462  
 28 ccnet08 523462  
 71 F3VME 523462  
 82 sva02 523462  
 83 sva03 523462

76	Wed Nov 9 08:07:52 2016	Hoshino Suharu	measurement from 362 747576Ni F5Cwedge 10mm F7empty F11C plate 6mm			363	747576Ni		F5Cwedge 10mm F7empty F11C plate 6mm
----	-------------------------	-------------------	---	--	--	-----	----------	--	--

start

## Run information

Run name : radiioff  
 Run number : 363  
 Run status : START  
 Start date : 09-Nov-16 04:46:01  
 Header : 75Ni F5:C wedge F7:empty F11:C 6mm start measurement

d03&gt; stop

Ender : stop to apply booster in pla

## Run information

Run name : radiioff  
 Run number : 363  
 Run status : IDLE  
 Start date : 09-Nov-16 04:46:01  
 Stop date : 09-Nov-16 04:57:21  
 Header : 75Ni F5:C wedge F7:empty F11:C 6mm start measurement  
 Ender : stop to apply booster in pla

## Last event number

EFN Nickname EVTN  
 21 ccnet01 758987  
 22 ccnet02 758987  
 23 ccnet03 758987  
 25 ccnet05 758987  
 26 ccnet06 758987  
 27 ccnet07 758987  
 28 ccnet08 758987  
 71 F3VME 758987  
 82 sva02 758987  
 83 sva03 758987

75	Wed Nov 9 07:33:43 2016	Hoshino Suharu	measurement from here 747576Ni F5Cwedge 10mm F7empty F11C plate 6mm			362	747576Ni		F5Cwedge 10mm F7empty F11C plate 6mm
----	-------------------------	-------------------	--	--	--	-----	----------	--	--

start

## Run information

Run name : radiioff  
 Run number : 362

Run number : 362  
 Run status : START  
 Start date : 09-Nov-16 04:06:20  
 Header : 75Ni F5:C wedge F7:empty F11:C 6mm start measurement

d03> stop

Ender : continue to next Run

Run information

Run name : radiioff  
 Run number : 362  
 Run status : IDLE  
 Start date : 09-Nov-16 04:06:20  
 Stop date : 09-Nov-16 04:45:31  
 Header : 75Ni F5:C wedge F7:empty F11:C 6mm start measurement  
 Ender : continue to next Run

Last event number

EFN Nickname EVTN  
 21 ccnet01 2774160  
 22 ccnet02 2774160  
 23 ccnet03 2774160  
 25 ccnet05 2774160  
 26 ccnet06 2774160  
 27 ccnet07 2774160  
 28 ccnet08 2774160  
 71 F3VME 2774160  
 82 sva02 2774160  
 83 sva03 2774160

74	Wed Nov 9 07:22:33 2016	BRIKEN collaboration	Isomer Measurement		RUN   BRIKEN		747576Ni		CH2
----	-------------------------	-------------------------	-----------------------	--	-----------------	--	----------	--	-----

Start 7:04  
 Stop 7:21

Setup:  
 -CH2 Target @ F7

BRIKEN:  
 -Run number: 011  
 -Root file:  
 -dlt: 161109\_0704\_747576Ni\_011.dlt  
 -Conf: 161107

AIDA:  
 -Run: R10

Rates (Hz):  
 F11: 1.2 k  
 HPGe: 1.4 k  
 F11-BRIKEN: 104  
 BRIKEN: 600  
 VETO-T: 60  
 VETO-B: 60  
 AIDA: 16

lost AIDA ACQ at 7:22.

73	Wed Nov 9 06:56:08 2016	BRIKEN collaboration	Isomer Measurement		RUN   BRIKEN		747576Ni		
----	-------------------------	-------------------------	-----------------------	--	-----------------	--	----------	--	--

Start: 3:50  
 Stop: 4:00

Setup:  
 -Carbon target

BRIKEN:  
 -Run number: 008-008  
 -Root file:  
 -dlt:161109\_0349\_747576Ni\_XXX.dlt  
 -Conf: 161107

AIDA:  
 -Run: R7  
 -Root File: 161109\_0400\_747576Ni\_008.root

Rates (Hz):  
 F11: 1k  
 HPGe: 140  
 F11-BRIKEN:  
 BRIKEN: 250  
 VETO-T: 70  
 VETO-B: 65  
 AIDA: 3

Degrader Adjustments

72	Wed Nov 9 06:09:04 2016	BRIKEN	Isomer		RUN		747576Ni		
----	-------------------------	--------	--------	--	-----	--	----------	--	--

Start: 6:03  
 Stop: 6:20  
 Setup:  
 -Carbon target was removed  
 -Degraders were added (see AIDA eLog) 4.4mm

BRIKEN:  
 -Run: 010-010  
 -Root file: 161109\_0622\_747576Ni\_010.root  
 -dlt: 161109\_0602\_747576Ni\_010.dlt  
 -Conf: 161107

AIDA:  
 Run: R9

Rates (Hz):  
 F11: 1.1 k  
 HPGe: 1 k  
 F11-BRIKEN: 809  
 BRIKEN: 450  
 VETO-T: 55  
 VETO-B: 50  
 AIDA: 5

Stopping to fill Ge.

71	Wed Nov 9 06:03:38 2016	BRIKEN collaboration	Isomer measurement		RUN   BRIKEN		747576Ni		
----	-------------------------	----------------------	--------------------	--	--------------	--	----------	--	--

Start: 4:07  
 Stop: 5:59

Setup:  
 -Carbon target  
 -No Degradar

BRIKEN:  
 -Run number: 009-009  
 -Root file: 161109\_0599\_747576Ni\_009.root  
 -dlt: 161109\_0407\_747576Ni\_009.dlt  
 -Conf: 161107

AIDA:  
 -Run: R8

We observe many gamma rays in the HPGe associated with 74Ni decay as well as the decays of 74,73Cu. We also observe a 990keV line which may be associated with Isomer/Beta Decay into 76Ni. An isomer ratio measurement requires offline scanning of our data.

We also observe evidence of implanted activity in He tubes. The rate of total He3 was around 70 counts/sec, that was around 300 without beam.

Rates (Hz):  
 F11: 1.1 k  
 HPGe: 1 k  
 F11-BRIKEN: 730  
 BRIKEN: 450  
 VETO-T: 50  
 VETO-B: 45  
 AIDA: 5

70	Wed Nov 9 05:47:47 2016	Hoshino Suharu	747576Ni tuning F5Cwedge 10mm F7empty F11C plate 6mm			361	747576Ni tuning		F5Cwedge 10mm F7empty F11C plate 6mm
----	-------------------------	----------------	--	--	--	-----	-----------------	--	--------------------------------------

```
start
Run information
Run name : radiioff
Run number : 361
Run status : START
Start date : 09-Nov-16 03:51:42
Header : 75Ni tuning
```

```
d03> stop
Ender : stop to enter ZDS
Run information
Run name : radiioff
Run number : 361
Run status : IDLE
Start date : 09-Nov-16 03:51:42
Stop date : 09-Nov-16 03:59:40
Header : 75Ni tuning
Ender : stop to enter ZDS
```

Last event number

EFN Nickname EVTN

12/03/16

http://ribf-exp.riken.jp/elog/RIBF123/page?mode=full

#107

```

EFN Nickname  EVTN
21 ccnet01    446153
22 ccnet02    446153
23 ccnet03    446153
25 ccnet05    446153
26 ccnet06    446153
27 ccnet07    446153
28 ccnet08    446153
71 F3VME      446153
82 sva02      446153
83 sva03      446153

```

69	Wed Nov 9 05:27:13 2016	Hoshino Suharu	F2 slit +10mm>+5mm 1 neutron knokout reaction			343	72Ni>>71Ni		F5 CH2 wedge10mm F7 Empty F11 C6mm
----	-------------------------	-------------------	--	--	--	-----	------------	--	--

```

d03> start
Run information
Run name : radiioff
Run number : 343
Run status : START
Start date : 09-Nov-16 00:29:55
Header : F2 slit +-10mm>+5mm

```

```

d03> stop
Ender : stop successfully
Run information
Run name : radiioff
Run number : 343
Run status : IDLE
Start date : 09-Nov-16 00:29:55
Stop date : 09-Nov-16 01:01:22
Header : F2 slit +-10mm>+5mm
Ender : stop successfully

```

```

Last event number
EFN Nickname  EVTN
21 ccnet01    3348602
22 ccnet02    3348602
23 ccnet03    3348602
25 ccnet05    3348602
26 ccnet06    3348602
27 ccnet07    3348602
28 ccnet08    3348602
71 F3VME      3348602
82 sva02      3348602
83 sva03      3348602

```

68	Wed Nov 9 05:23:52 2016	fujii tomoya	71Ni Momentum distribution measurement again			342	71Ni		F5 CH2 wedge10mm F7 Empty F11 C6mm
----	-------------------------	--------------	---	--	--	-----	------	--	--

```

d03> start
Run information
Run name : radiioff
Run number : 342
Run status : START
Start date : 09-Nov-16 00:18:14
Header : 71Ni Momentum distribution measurement again

```

```

d03> stop
Ender :
Run information
Run name : radiioff
Run number : 342
Run status : IDLE
Start date : 09-Nov-16 00:18:14
Stop date : 09-Nov-16 00:29:02
Header : 71Ni Momentum distribution measurement again
Ender :

```

```

Last event number
EFN Nickname  EVTN
21 ccnet01    1294283
22 ccnet02    1294283
23 ccnet03    1294283
25 ccnet05    1294283
26 ccnet06    1294283
27 ccnet07    1294283
28 ccnet08    1294283
71 F3VME      1294283
82 sva02      1294283
83 sva03      1294283

```

67	Wed Nov 9 01:11:10 2016	BRIKEN collaboration	Isomer measurement	Configuration	RUN   BRIKEN		717273Ni		
----	-------------------------	-------------------------	-----------------------	---------------	-----------------	--	----------	--	--

```

Start: 00:47
Stop: 01:03

```

Isotope: 717273Ni

Isotope: 717273Ni

BRIKEN:  
 -RootFile:161109\_0103\_717273Ni.root  
 -Run number: 007-007  
 -DLT: 161109\_0046\_717273Ni\_XXX.dlt  
 -Conf: 161107\_BrikenFull.xlsx

AIDA:  
 Setting: 2016Nov07-23.03.06  
 R6 - R6-3  
 Leakage (uA):  
 4.54,5.73,5.10,4.72,5.01,4.32

Rates (Hz):  
 F11: 850  
 HPGe: 120/200  
 F11-BRIKEN: 362  
 BRIKEN: 200  
 VETO-T: 70  
 VETO-B: 65  
 AIDA: 1.5

F11-BRIKEN: is calculated by the difference of the Corr\_BR\_F11R rate total and the rate between 0 and 1000. Time is taken as the pulser total.

66	Wed Nov 9 00:28:55 2016	fujii tomoya	71Ni Momentum distribution measurement junk			341			
----	-------------------------	--------------	---	--	--	-----	--	--	--

```
d03> start
Run information
Run name   : radiioff
Run number : 341
Run status : START
Start date : 09-Nov-16 00:15:11
Header    : 71Ni Momentum distribution measurement
              stop
Ender     : junk
Run information
Run name   : radiioff
Run number : 341
Run status : IDLE
Start date : 09-Nov-16 00:15:11
Stop date  : 09-Nov-16 00:17:24
Header    : 71Ni Momentum distribution measurement
Ender     : junk
```

```
Last event number
EFN Nickname  EVTN
21 ccnet01    253540
22 ccnet02    253540
23 ccnet03    253540
25 ccnet05    253540
26 ccnet06    253540
27 ccnet07    253540
28 ccnet08    253540
71 F3VME      253540
82 sva02      253540
83 sva03      253540
```

65	Wed Nov 9 00:27:31 2016	fujii tomoya	Momentum distribution measurement, 72Ni F5 CH2 wedge10mm F7 Empty F11 C6mm			340	72Ni		F5 CH2 wedge10mm F7 Empty F11 C6mm
----	-------------------------	--------------	--	--	--	-----	------	--	------------------------------------

```
d03> start
Run information
Run name   : radiioff
Run number : 340
Run status : START
Start date : 09-Nov-16 00:04:52
Header    : Momentum distribution measurement, 72Ni
```

```
d03> getevtnumber
Event built number = 539380
d03> getevtnumber
Event built number = 547426
d03> stop
Ender : stop successfully
Run information
Run name   : radiioff
Run number : 340
Run status : IDLE
Start date : 09-Nov-16 00:04:52
Stop date  : 09-Nov-16 00:12:33
Header    : Momentum distribution measurement, 72Ni
Ender     : stop successfully
```

## Last event number

```
EFN Nickname EVTN
21 ccnet01   882087
22 ccnet02   882087
23 ccnet03   882087
25 ccnet05   882087
26 ccnet06   882087
27 ccnet07   882087
28 ccnet08   882087
71 F3VME     882087
82 sva02     882087
83 sva03     882087
```

64	Wed Nov 9 00:27:18 2016	BRIKEN collaboration	Isomer measurement		RUN   BRIKEN	006	717273Ni		
----	-------------------------	-------------------------	-----------------------	--	-----------------	-----	----------	--	--

F7 OUT F11 C-6mm  
Degarder: 3.2mm + 5mm

```
Start: 00:09
Run: 006
DLT: 161108_2251_717273Ni_006.dlt
```

```
Rates:
F11R: 1200 cps
BRIKEN: 270 cps (22.5%)
```

They were tuning during this run.

Stop: 0042

Root file: 161109\_0042\_717273Ni.root

63	Wed Nov 9 00:01:09 2016	fujii tomoya	measurement from 339 71-73Ni F5 empty, F7 CH2 10mm, F11 empty			339			
----	-------------------------	--------------	---	--	--	-----	--	--	--

```
d03> start
Run information
Run name   : radiioff
Run number : 339
Run status : START
Start date : 08-Nov-16 23:24:25
Header    : 71-73Ni, F5:empty, F7:CH2 10mm, F11: C 6mm
```

```
d03> stop
Ender : stop successfulley
Run information
Run name   : radiioff
Run number : 339
Run status : IDLE
Start date : 08-Nov-16 23:24:25
Stop date  : 08-Nov-16 23:58:02
Header    : 71-73Ni, F5:empty, F7:CH2 10mm, F11: C 6mm
Ender     : stop successfulley
```

## Last event number

```
EFN Nickname EVTN
21 ccnet01   3966398
22 ccnet02   3966398
23 ccnet03   3966398
25 ccnet05   3966398
26 ccnet06   3966398
27 ccnet07   3966398
28 ccnet08   3966398
```

28 ccnet08 3966398  
 71 F3VME 3966398  
 82 sva02 3966398  
 83 sva03 3966398

61	Tue Nov 8 23:55:25 2016	BRIKEN collaboration	Isomer measurement		RUN   BRIKEN	005	717273Ni		
----	-------------------------	-------------------------	-----------------------	--	-----------------	-----	----------	--	--

F7 CH2 F11 C-6mm  
 Total degrader thickness 6mm

Start:  
 RUN: 005  
 File: 161108\_2251\_717273Ni\_005.dlt  
 Stop: 23:59  
 Run: 005

Rates:  
 F11R: 2600 cps  
 BRIKEN: 740 cps

ROOT file: 161109\_0005\_717273Ni.root

Counts:  
 F11R: 5.36294e+06  
 BRIKEN: 1.42823e+06  
 Corr\_BR\_F11R: 1.41452e+06

57	Tue Nov 8 23:41:15 2016	fujii tomoya	measurement from 338 71-73Ni F5 empty, F7 CH2 10mm, F11 empty			338			
----	-------------------------	--------------	---	--	--	-----	--	--	--

```
d03> start
Run information
Run name   : radiioff
Run number : 338
Run status : START
Start date : 08-Nov-16 23:19:30
Header    : the same setting as the previous run for BRIKEN. Data is available.
```

```
d03> stop
Ender : stop successfully
Run information
Run name   : radiioff
Run number : 338
Run status : IDLE
Start date : 08-Nov-16 23:19:30
Stop date  : 08-Nov-16 23:23:02
Header    : the same setting as the previous run for BRIKEN. Data is available.
Ender     : stop successfully
```

Last event number  
 EFN Nickname EVTN  
 21 ccnet01 405292  
 22 ccnet02 405292  
 23 ccnet03 405292  
 25 ccnet05 405292  
 26 ccnet06 405292  
 27 ccnet07 405292  
 28 ccnet08 405292  
 71 F3VME 405292  
 82 sva02 405292  
 83 sva03 405292

55	Tue Nov 8 23:40:08 2016	fujii tomoya	measurement from 337 71-73Ni F5 empty, F7 CH2 10mm, F11 empty			337			
----	-------------------------	--------------	---	--	--	-----	--	--	--

```
d03> start
Run information
Run name   : radiioff
Run number : 337
Run status : START
Start date : 08-Nov-16 22:55:52
Header    : 71-73Ni, F5:empty, F7:CH2 10mm, F11: empty, ZDS is tuned.
```

```
d03> stop
Ender : successfully stop
Run information
Run name   : radiioff
Run number : 337
Run status : IDLE
Start date : 08-Nov-16 22:55:52
Stop date  : 08-Nov-16 23:12:39
Header    : 71-73Ni, F5:empty, F7:CH2 10mm, F11: empty, ZDS is tuned.
Ender     : successfully stop
```

Last event number  
 EFN Nickname EVTN



```
EFN Nickname  EVTN
21 ccnet01    1934622
22 ccnet02    1934622
23 ccnet03    1934622
25 ccnet05    1934622
26 ccnet06    1934622
27 ccnet07    1934622
28 ccnet08    1934622
71 F3VME     1934622
82 sva02     1934622
83 sva03     1934622
```

54	Tue Nov 8 23:39:18 2016	fujii tomoya	measurement from 336 71-73Ni F5 empty, F7 CH2 10mm, F11 empty			336			
----	-------------------------	--------------	---	--	--	-----	--	--	--

```
d03> start
Run information
Run name   : radiioff
Run number : 336
Run status : START
Start date : 08-Nov-16 22:49:48
Header    : 71-73Ni, F5:empty, F7:CH2 10mm, F11: empty, ZDS is tuned.
```

```
d03> stop
Ender : tuning stop
wthRun information
Run name   : radiioff
Run number : 336
Run status : IDLE
Start date : 08-Nov-16 22:49:48
Stop date  : 08-Nov-16 22:54:28
Header    : 71-73Ni, F5:empty, F7:CH2 10mm, F11: empty, ZDS is tuned.
Ender     : tuning stop
```

```
Last event number
EFN Nickname  EVTN
21 ccnet01    528691
22 ccnet02    528691
23 ccnet03    528691
25 ccnet05    528691
26 ccnet06    528691
27 ccnet07    528691
28 ccnet08    528691
71 F3VME     528691
82 sva02     528691
83 sva03     528691
```

53	Tue Nov 8 23:37:51 2016	fujii tomoya	measurement from 335 71-73Ni F5 CWedge 10mm, F7 Empty, F11 empty			335			
----	-------------------------	--------------	--	--	--	-----	--	--	--

```
d03> start
Run information
Run name   : radiioff
Run number : 335
Run status : START
Start date : 08-Nov-16 22:00:57
Header    : 71-73Ni, F5:10mmC, F7:empty, F11: empty, ZDS is tuned.
```

```
d03> stop
Ender : successfully stop
Run information
Run name   : radiioff
Run number : 335
Run status : IDLE
Start date : 08-Nov-16 22:00:57
Stop date  : 08-Nov-16 22:43:49
Header    : 71-73Ni, F5:10mmC, F7:empty, F11: empty, ZDS is tuned.
Ender     : successfully stop
```

```
Last event number
EFN Nickname  EVTN
21 ccnet01    4783413
22 ccnet02    4783413
23 ccnet03    4783413
25 ccnet05    4783413
26 ccnet06    4783413
27 ccnet07    4783413
28 ccnet08    4783413
71 F3VME     4783413
82 sva02     4783413
83 sva03     4783413
```

52	Tue Nov 8 23:36:08 2016	fujii tomoya	measurement from 334 71-73Ni F5 CWedge 10mm, F7 Empty, F11 C Plate 6mm			334			
----	-------------------------	--------------	--	--	--	-----	--	--	--

```
d03> start
Run information
Run name : radiioff
Run number : 334
Run status : START
Start date : 08-Nov-16 21:45:49
Header : 71-73Ni, F5:10mmC, F7:empty, F11: 6mmC, ZDS is tuned. the same setting as previoto enter F11 for
BRIKEN
```

```
d03> stop
Ender : stop success
Run information
Run name : radiioff
Run number : 334
Run status : IDLE
Start date : 08-Nov-16 21:45:49
Stop date : 08-Nov-16 21:58:37
Header : 71-73Ni, F5:10mmC, F7:empty, F11: 6mmC, ZDS is tuned. the same setting as previostop success
Ender : stop success
```

Last event number

```
EFN Nickname EVTN
21 ccnet01 1343166
22 ccnet02 1343166
23 ccnet03 1343166
25 ccnet05 1343166
26 ccnet06 1343166
27 ccnet07 1343166
28 ccnet08 1343166
71 F3VME 1343166
82 sva02 1343166
83 sva03 1343166
```

51	Tue Nov 8 23:01:48 2016	BRIKEN collaboration	Isomer measurement		RUN   BRIKEN	003	717273Ni		
----	-------------------------	-------------------------	-----------------------	--	-----------------	-----	----------	--	--

F7 CH2 F11 Empty

We remove the 8mm Al plate from inside BRIKEN in front of AIDA  
Move AIDA to the central position. We put a 5mm Al plate in front  
of the degrader.

Degrader 5.4mm + 5mm

Start: 21:45  
DLT: 161108\_2251\_717273Ni\_03.dlt

We remove some degrader:2.2mm off  
Then we start a new run: 004

Stop:23:26  
To put the C-6mm target in F11

ROOT file: 161108\_2323\_717273Ni.root

50	Tue Nov 8 22:57:43 2016	fujii tomoya	measurement from 333 71-73Ni F5 CWedge 10mm, F7 Empty, F11 C Plate 6mm			333			
----	-------------------------	--------------	--	--	--	-----	--	--	--

```
d03> start
Run information
Run name : radiioff
Run number : 333
Run status : START
Start date : 08-Nov-16 21:05:45
Header : 71-73Ni, F5:10mmC, F7:empty, F11: 6mmC, ZDS is tuned.
```

```
d03> stop
Ender : to enter F11 for BRIKEN
Run information
Run name : radiioff
Run number : 333
Run status : IDLE
Start date : 08-Nov-16 21:05:45
Stop date : 08-Nov-16 21:36:22
Header : 71-73Ni, F5:10mmC, F7:empty, F11: 6mmC, ZDS is tuned.
Ender : to enter F11 for BRIKEN
```

Last event number

```
EFN Nickname EVTN
21 ccnet01 3308547
22 ccnet02 3308547
23 ccnet03 3308547
25 ccnet05 3308547
26 ccnet06 3308547
27 ccnet07 3308547
28 ccnet08 3308547
71 F3VME 3308547
82 sva02 3308547
```

```

82 sva02      3308547
83 sva03      3308547
d03> wth
Header : 71-73Ni, F5:10mmC, F7:empty, F11: 6mmC, ZDS is tuned. the same setting as previous run.
d03> start
Run information
Run name      : radiioff
Run number    : 334
Run status    : START
Start date    : 08-Nov-16 21:45:49
Header       : 71-73Ni, F5:10mmC, F7:empty, F11: 6mmC, ZDS is tuned. the same setting as previoto enter F11 for
BRIKEN

```

49	Tue Nov 8 22:07:32 2016	BRIKEN collaboration	Isomer measurement		RUN   BRIKEN	001	717273Ni		
----	-------------------------	-------------------------	-----------------------	--	-----------------	-----	----------	--	--

After removing the lead wall.

```

Start: 21:45
DLT: 161108_2145_717273Ni_001.dlt

```

During the first part we were changing the degrader.  
Now they remove the C-6mm target.

So we increase the adjustable degrader to 5.4mm  
keeping the 8mm thick plate for implantation  
in the center of BRIKEN.

```

We stop and start a new DLT file at 22:02
DLT: 161108_2145_717273Ni_002.dlt
Stop: 22:48

```

NO ROOT FILE!

48	Tue Nov 8 21:25:23 2016	Inomata Kumi	measurement from 332 71-73Ni F5 CWedge10mm F7 Empty F11 CPlate6mm			332			
----	-------------------------	--------------	---	--	--	-----	--	--	--

```

d03> start
Run information
Run name      : radiioff
Run number    : 332
Run status    : START
Start date    : 08-Nov-16 20:23:50
Header       : 71-73Ni, F5:10mmC, F7:empty, F11: 6mmC, ZDS is tuned.

```

```

d03> stop
Ender : continue to next run
startRun information
Run name      : radiioff
Run number    : 332
Run status    : IDLE
Start date    : 08-Nov-16 20:23:50
Stop date     : 08-Nov-16 21:05:28
Header       : 71-73Ni, F5:10mmC, F7:empty, F11: 6mmC, ZDS is tuned.
Ender        : continue to next run

```

```

Last event number
EFN Nickname  EVTN
21 ccnet01    4339019
22 ccnet02    4339019
23 ccnet03    4339019
25 ccnet05    4339019
26 ccnet06    4339019
27 ccnet07    4339019
28 ccnet08    4339019
71 F3VME      4339019
82 sva02      4339019
83 sva03      4339019

```

47	Tue Nov 8 21:10:46 2016	BRIKEN collaboration	AIDA degrader for 72,73,71Ni setting & 75,76,74Ni setting		BRIKEN				
----	-------------------------	-------------------------	---	--	--------	--	--	--	--

At present (21:00) there is an 8 mm thick Al plate front of AIDA in the matrix. It stays in the middle, front of the clowers. Aida is off-centered by 20 cm.

All adjustable degreaders are in the beamline, their total thickness is 5.4 mm (2 x 2.2 + 1 mm).

The lead wall and an additional 5 mm thick Al plate (mounted between Veto-Plastics Top and Bottom) is in the beamline, too.

If the tunning is over - and the F11 rate is reasonable - please remove first the lead and the fixed (5 mm) degreaders. Than remove the remotely controlled plates one-by-one and check AIDA rate paralel.

For the 72,73,71Ni & 75,76,74Ni runs - when the C target is in - 8 mm Al is enough to reduce the current to an acceptable level. When the C is out please place the 1 mm adjustable degreader, too.

46	Tue Nov 8 20:23:11 2016	Inomata Kumi	331				331		
----	-------------------------	--------------	-----	--	--	--	-----	--	--

```
d03> start
Run information
Run name   : radiioff
Run number : 331
Run status : START
Start date : 08-Nov-16 20:05:24
Header    : 71-73Ni F11PLTDC tuning, F11 C target in
```

```
d03> stop
Ender : the offset of F11PL-TDC was tuned in this run.
Run information
Run name   : radiioff
Run number : 331
Run status : IDLE
Start date : 08-Nov-16 20:05:24
Stop date  : 08-Nov-16 20:16:24
Header    : 71-73Ni F11PLTDC tuning, F11 C target in
Ender    : the offset of F11PL-TDC was tuned in this run.
```

```
Last event number
EFN Nickname EVTN
21 ccnet01   552321
22 ccnet02   552321
23 ccnet03   552321
25 ccnet05   552321
26 ccnet06   552321
27 ccnet07   552321
28 ccnet08   552321
71 F3VME     552321
82 sva02     552321
83 sva03     552321
```

45	Tue Nov 8 18:35:12 2016	Inomata Kumi	312				312		
----	-------------------------	--------------	-----	--	--	--	-----	--	--

```
d03> start
Run information
Run name   : radiioff
Run number : 312
Run status : START
Start date : 08-Nov-16 18:22:04
Header    : 42-44Ca, F5:empty, F7:10mmCH2, F11:empty
```

```
d03> stop
Ender : stop successfully
Run information
Run name   : radiioff
Run number : 312
Run status : IDLE
Start date : 08-Nov-16 18:22:04
Stop date  : 08-Nov-16 18:32:53
Header    : 42-44Ca, F5:empty, F7:10mmCH2, F11:empty
Ender    : stop successfully
```

```
Last event number
EFN Nickname EVTN
21 ccnet01   1010499
22 ccnet02   1010499
23 ccnet03   1010499
25 ccnet05   1010499
26 ccnet06   1010499
27 ccnet07   1010499
28 ccnet08   1010499
71 F3VME     1010499
82 sva02     1010499
83 sva03     1010499
```

44	Tue Nov 8 18:29:34 2016	Inomata Kumi	311				311		
----	-------------------------	--------------	-----	--	--	--	-----	--	--

```
d03> start
Run information
Run name   : radiioff
Run number : 311
Run status : START
Start date : 08-Nov-16 17:58:02
```

Start date : 08-Nov-16 17:58:02  
Header : F5:empty, F7:10mmCH2, F11:6mmC

d03> stop

Ender : successfully stop

Run information

Run name : radiioff  
Run number : 311  
Run status : IDLE  
Start date : 08-Nov-16 17:58:02  
Stop date : 08-Nov-16 18:21:06  
Header : F5:empty, F7:10mmCH2, F11:6mmC  
Ender : successfully stop

Last event number

EFN Nickname EVTN

21	ccnet01	2207135
22	ccnet02	2207135
23	ccnet03	2207135
25	ccnet05	2207135
26	ccnet06	2207135
27	ccnet07	2207135
28	ccnet08	2207135
71	F3VME	2207135
82	sva02	2207135
83	sva03	2207135

43	Tue Nov 8 18:07:02 2016	Inomata Kumi	310				310		
----	-------------------------	--------------	-----	--	--	--	-----	--	--

d03> start

Run information

Run name : radiioff  
Run number : 310  
Run status : START  
Start date : 08-Nov-16 17:41:18  
Header : F11 target in C6mm

d03> stop

Ender : stop successfully

Run information

Run name : radiioff  
Run number : 310  
Run status : IDLE  
Start date : 08-Nov-16 17:41:18  
Stop date : 08-Nov-16 17:51:36  
Header : F11 target in C6mm  
Ender : stop successfully

Last event number

EFN Nickname EVTN

21	ccnet01	1082991
22	ccnet02	1082991
23	ccnet03	1082991
25	ccnet05	1082991
26	ccnet06	1082991
27	ccnet07	1082991
28	ccnet08	1082991
71	F3VME	1082991
82	sva02	1082991
83	sva03	1082991

42	Tue Nov 8 18:06:01 2016	Inomata Kumi	309				309		
----	-------------------------	--------------	-----	--	--	--	-----	--	--

```
d03> start
Run information
Run name   : radiioff
Run number : 309
Run status : START
Start date : 08-Nov-16 17:01:47
Header    : F11 target in C6mm
```

```
d03> stop
Ender : continue to next run
Run information
Run name   : radiioff
Run number : 309
Run status : IDLE
Start date : 08-Nov-16 17:01:47
Stop date  : 08-Nov-16 17:40:39
Header    : F11 target in C6mm
Ender     : continue to next run
```

## Last event number

```
EFN Nickname  EVTN
21 ccnet01    4019644
22 ccnet02    4019644
23 ccnet03    4019644
25 ccnet05    4019644
26 ccnet06    4019644
27 ccnet07    4019644
28 ccnet08    4019644
71 F3VME      4019644
82 sva02      4019644
83 sva03      4019644
```

41	Tue Nov 8 18:05:12 2016	Inomata Kumi	308			308			
----	-------------------------	--------------	-----	--	--	-----	--	--	--

```
d03> start
Run information
Run name   : radiioff
Run number : 308
Run status : START
Start date : 08-Nov-16 16:35:19
Header    : 42,43,44Ca measurement
```

```
d03> stop
Ender :
Run information
Run name   : radiioff
Run number : 308
Run status : IDLE
Start date : 08-Nov-16 16:35:19
Stop date  : 08-Nov-16 17:00:05
Header    : 42,43,44Ca measurement
Ender     :
```

## Last event number

```
EFN Nickname  EVTN
21 ccnet01    2362992
22 ccnet02    2362992
23 ccnet03    2362992
25 ccnet05    2362992
26 ccnet06    2362992
27 ccnet07    2362992
28 ccnet08    2362992
71 F3VME      2362992
82 sva02      2362992
83 sva03      2362992
```

40	Tue Nov 8 16:51:09 2016	BRIKEN collaboration	Information on the visual scaler	Configuration	Detector				
----	-------------------------	----------------------	----------------------------------	---------------	----------	--	--	--	--

\* The order of the visual scaler

- (1) F11 R
- (2) upstream veto - top
- (3) upstream veto - bottom
- (4) Delta E detector
- (5) Delta E detector
- (6) downstream veto (for light particles)
- (7) coincidence between F11, upstream veto, and downstream veto
- (8) coincidence between F11, and downstream veto

39	Tue Nov 8 16:33:01 2016	BRIKEN collaboration	Background measurement		RUN	0	424344Ca		
----	-------------------------	----------------------	------------------------	--	-----	---	----------	--	--

Sequence of settings:

- 1) No target at F7 and Empty target at F11 (up to t=1E6ms)
- 2) No target at F7 and C-6mm target at F11 (up to t=5.1E6ms)
- 3) CH2 (10mm) target at F7 and C-6mm target at F11 (from t=5.3E6ms up to 6.8E6)
- 4) CH2 (10mm) target at F7 and Empty target at F11 (from t=6.8ms up to crash 7.1ms)

DAQ chash because start of Clover LN2 filling!  
Counts accumulated in the the same time channel.

Start: 16:29 Run: 000  
Stop: 18:28 Run: 000

DLT filename: 161108\_1629\_424344Ca\_000.dlt  
ROOT filename: 161108\_1828\_424344Ca.root

38	Tue Nov 8 16:13:43 2016	BRIKEN collaboration	Configuration file	Configuration	DAQ				
----	-------------------------	----------------------	--------------------	---------------	-----	--	--	--	--

Working directory: /data/1611Commissioning/161107Parasitic/  
Configuration file: 161107Conf\_BrikenFull.xlsx

Attachment 1: 161107Conf\_BrikenFull.xlsx

37	Tue Nov 8 13:19:01 2016	R.Yanagihara	measurement from 280 454647Ca F5 Empty F7 CH2 10mm F11empty			286	454647Ca		F5 Empty F7 CH2 10mm F11empty
----	-------------------------	--------------	--	--	--	-----	----------	--	----------------------------------

```
d03> start
Run information
Run name   : radiioff
Run number : 286
Run status : START
Start date : 07-Nov-16 07:45:56
Header    : F11>>Empty
```

```
d03> stop
Ender : stop successfully
Run information
Run name   : radiioff
Run number : 286
Run status : IDLE
Start date : 07-Nov-16 07:45:56
Stop date  : 07-Nov-16 08:00:53
Header    : F11>>Empty
Ender     : stop successfully
```

```
Last event number
EFN Nickname EVTN
21 ccnet01   1546582
22 ccnet02   1546582
23 ccnet03   1546582
25 ccnet05   1546582
26 ccnet06   1546582
27 ccnet07   1546582
28 ccnet08   1546582
71 F3VME    1546582
82 sva02    1546582
83 sva03    1546582
```

36	Tue Nov 8 09:38:24 2016	R.Yanagihara	measurement from 280 454647Ca F5 Empty F7 CH2 10mm F11 C 6mm			285	454647Ca		F5 Empty F7 CH2 10mm F11 C 6mm
----	-------------------------	--------------	--	--	--	-----	----------	--	--------------------------------------

```
d03> start
Run information
Run name   : radiioff
Run number : 285
Run status : START
Start date : 07-Nov-16 07:21:48
Header    : F5:empty, F7:10mmCH2, F11:6mmC
```

```
d03> stop
Ender :
Run information
Run name   : radiioff
Run number : 285
Run status : IDLE
Start date : 07-Nov-16 07:21:48
Stop date  : 07-Nov-16 07:45:36
Header    : F5:empty, F7:10mmCH2, F11:6mmC
Ender     :
```

```
Last event number
EFN Nickname EVTN
21 ccnet01   2457749
22 ccnet02   2457749
23 ccnet03   2457749
25 ccnet05   2457749
```

25 ccnet05 2457749  
 26 ccnet06 2457749  
 27 ccnet07 2457749  
 28 ccnet08 2457749  
 71 F3VME 2457749  
 82 sva02 2457749  
 83 sva03 2457749

35	Mon Nov 7 07:30:47 2016	Hoshino Suharu	measurement from 280 454647Ca F5 Empty F7 CH2 10mm F11 Empty			284	454647Ca		F5 Empty F7 CH2 10mm F11 Empty
----	-------------------------	-------------------	--	--	--	-----	----------	--	-----------------------------------

```
d03> start
Run information
Run name : radiioff
Run number : 284
Run status : START
Start date : 07-Nov-16 07:18:43
Header : F5>>target out brho tuning
```

```
d03> stop
Ender :
wthRun information
Run name : radiioff
Run number : 284
Run status : IDLE
Start date : 07-Nov-16 07:18:43
Stop date : 07-Nov-16 07:21:15
Header : F5>>target out brho tuning
Ender :
```

```
Last event number
EFN Nickname EVTN
21 ccnet01 245424
22 ccnet02 245424
23 ccnet03 245424
25 ccnet05 245424
26 ccnet06 245424
27 ccnet07 245424
28 ccnet08 245424
71 F3VME 245424
82 sva02 245424
83 sva03 245424
```

d03> wth

34	Mon Nov 7 07:30:17 2016	Hoshino Suharu	measurement from 280 454647Ca F5 C wedge F7 Empty F11 Empty			283	454647Ca		F5 C wedge F7 Empty F11 Empty
----	-------------------------	-------------------	---	--	--	-----	----------	--	----------------------------------

```
d03> start
Run information
Run name : radiioff
Run number : 283
Run status : START
Start date : 07-Nov-16 06:54:48
Header : F11 >> Empty
```

```
d03> stop
Ender : stop successfully
Run information
Run name : radiioff
Run number : 283
Run status : IDLE
Start date : 07-Nov-16 06:54:48
Stop date : 07-Nov-16 07:17:53
Header : F11 >> Empty
Ender : stop successfully
```

```
Last event number
EFN Nickname EVTN
21 ccnet01 2350567
22 ccnet02 2350567
23 ccnet03 2350567
25 ccnet05 2350567
26 ccnet06 2350567
27 ccnet07 2350567
28 ccnet08 2350567
71 F3VME 2350567
82 sva02 2350567
83 sva03 2350567
```

d03> wth

33	Mon Nov 7 07:29:42 2016	Hoshino Suharu	measurement from 280 454647Ca F5 C wedge F7 Empty F11 C 6mm			282	454647Ca		F5 C wedge F7 Empty F11 C 6mm
----	-------------------------	-------------------	---	--	--	-----	----------	--	-------------------------------------



## Run information

Run name : radiioff  
 Run number : 282  
 Run status : START  
 Start date : 07-Nov-16 06:28:22  
 Header : 46Ca F5 C wedge F11 C6mm

d03&gt; stop

Ender : stop successfully

## Run information

Run name : radiioff  
 Run number : 282  
 Run status : IDLE  
 Start date : 07-Nov-16 06:28:22  
 Stop date : 07-Nov-16 06:54:13  
 Header : 46Ca F5 C wedge F11 C6mm  
 Ender : stop successfully

## Last event number

EFN Nickname EVTN  
 21 ccnet01 2805483  
 22 ccnet02 2805483  
 23 ccnet03 2805483  
 25 ccnet05 2805483  
 26 ccnet06 2805483  
 27 ccnet07 2805483  
 28 ccnet08 2805483  
 71 F3VME 2805483  
 82 sva02 2805483  
 83 sva03 2805483

d03&gt; wth

32	Mon Nov 7 06:06:00 2016	Hoshino Suharu	measurement from 280 454647Ca F5 C wedge 10mm F7 Empty F11 C plate 6mm			281	454647Ca		F5 C wedge 10mm F7 Empty F11 C plate 6mm
----	-------------------------	----------------	--	--	--	-----	----------	--	--

d03&gt; start

## Run information

Run name : radiioff  
 Run number : 280  
 Run status : START  
 Start date : 07-Nov-16 05:29:03  
 Header : 46Ca tuning

d03&gt; stop

Ender : tune finish

## Run information

Run name : radiioff  
 Run number : 280  
 Run status : IDLE  
 Start date : 07-Nov-16 05:29:03  
 Stop date : 07-Nov-16 05:37:07  
 Header : 46Ca tuning  
 Ender : tune finish

## Last event number

EFN Nickname EVTN  
 21 ccnet01 506030  
 22 ccnet02 506030  
 23 ccnet03 506030  
 25 ccnet05 506030  
 26 ccnet06 506030  
 27 ccnet07 506030  
 28 ccnet08 506030  
 71 F3VME 506030  
 82 sva02 506030  
 83 sva03 506030

d03&gt; wth

31	Mon Nov 7 02:44:57 2016	Hoshino Suharu	measurement from 251 484950Ca F5 out F7 CH2 10mm F11 Empty			261	484950Ca		F5 out F7 CH2 10mm F11 Empty
----	-------------------------	----------------	---	--	--	-----	----------	--	---------------------------------

d03&gt; start

## Run information

Run name : radiioff  
 Run number : 261  
 Run status : START  
 Start date : 07-Nov-16 02:30:11  
 Header : F11 empty

d03&gt; stop

Ender : stop successfully

## Run information

Run name : radiioff  
 Run number : 261

Run number : 261  
 Run status : IDLE  
 Start date : 07-Nov-16 02:30:11  
 Stop date : 07-Nov-16 02:35:47  
 Header : F11 empty  
 Ender : stop successfully

## Last event number

EFN Nickname EVTN  
 21 ccnet01 628243  
 22 ccnet02 628243  
 23 ccnet03 628243  
 25 ccnet05 628243  
 26 ccnet06 628243  
 27 ccnet07 628243  
 28 ccnet08 628243  
 71 F3VME 628243  
 82 sva02 628243  
 83 sva03 628243

30	Mon Nov 7 02:44:20 2016	Hoshino Suharu	measurement from 251 484950Ca F5 out F7 CH2 10mm F11 C 6mm			260	484950Ca	F5 out F7 CH2 10mm F11 C 6mm
----	-------------------------	-------------------	--	--	--	-----	----------	------------------------------------

d03&gt; start

## Run information

Run name : radiioff  
 Run number : 260  
 Run status : START  
 Start date : 07-Nov-16 02:14:55  
 Header : F5 target out F11 C6mm in

d03&gt; getevtnumber

Event built number = 21785

d03&gt; getevtnumber

Event built number = 23244

d03&gt; getevtnumber

Event built number = 23840

d03&gt; getevtnumber

Event built number = 24436

d03&gt; getevtnumber

Event built number = 25032

d03&gt; getevtnumber

Event built number = 961646

d03&gt; getevtnumber

Event built number = 961646

d03&gt; getevtnumber

Event built number = 961646

d03&gt; getevtnumber

Event built number = 961646

d03&gt; getevtnumber

Event built number = 961646

d03&gt; getevtnumber

Event built number = 961646

d03&gt; getevtnumber

Event built number = 961646

d03&gt; stop

Ender :

## Run information

Run name : radiioff  
 Run number : 260  
 Run status : IDLE  
 Start date : 07-Nov-16 02:14:55  
 Stop date : 07-Nov-16 02:24:51  
 Header : F5 target out F11 C6mm in  
 Ender :

## Last event number

EFN Nickname EVTN  
 21 ccnet01 961793  
 22 ccnet02 961793  
 23 ccnet03 961793  
 25 ccnet05 961793  
 26 ccnet06 961793  
 27 ccnet07 961793  
 28 ccnet08 961793  
 71 F3VME 961793  
 82 sva02 961793  
 83 sva03 961793

29	Mon Nov 7 02:43:11 2016	Hoshino Suharu	measurement from 251 484950Ca F5 out F7 CH2 10mm F11 C 6mm			259	484950Ca	F5 out F7 CH2 10mm F11 C 6mm
----	-------------------------	-------------------	--	--	--	-----	----------	------------------------------------

d03&gt; start

## Run information

Run name : radiioff  
 Run number : 259

```
Run number : 259
Run status : START
Start date : 07-Nov-16 02:10:54
Header      : F5 target out F11 C6mm in
```

d03> stop

Ender :

Run information

```
Run name   : radiioff
Run number : 259
Run status : IDLE
Start date : 07-Nov-16 02:10:54
Stop date  : 07-Nov-16 02:13:49
Header     : F5 target out F11 C6mm in
Ender      :
```

Last event number

```
EFN Nickname EVTN
21 ccnet01    356001
22 ccnet02    356001
23 ccnet03    356001
25 ccnet05    356002
26 ccnet06    356002
27 ccnet07    356001
28 ccnet08    356001
71 F3VME     356001
82 sva02     356001
83 sva03     356001
```

\*\*\* GTOERROR Unexpected EOB busy0

28	Mon Nov 7 02:42:33 2016	Hoshino Suharu	measurement from 251 494850Ca F5 C wedge F7 Empty F11 Empty			258	494850Ca		F5 C wedge F7 Empty F11 Empty
----	-------------------------	-------------------	---	--	--	-----	----------	--	----------------------------------

d03> start

Run information

```
Run name   : radiioff
Run number : 258
Run status : START
Start date : 07-Nov-16 01:47:36
Header     : charge state study
```

d03> getevtnumber

Event built number = 1906423

d03> getevtnumber

Event built number = 1910180

d03> getevtnumber

Event built number = 1911968

d03> getevtnumber

Event built number = 1913160

d03> stop

Ender : stop successfully

Run information

```
Run name   : radiioff
Run number : 258
Run status : IDLE
Start date : 07-Nov-16 01:47:36
Stop date  : 07-Nov-16 02:03:56
Header     : charge state study
Ender      : stop successfully
```

Last event number

```
EFN Nickname EVTN
21 ccnet01    2000214
22 ccnet02    2000214
23 ccnet03    2000214
25 ccnet05    2000214
26 ccnet06    2000214
27 ccnet07    2000214
28 ccnet08    2000214
71 F3VME     2000214
82 sva02     2000214
83 sva03     2000214
```

27	Mon Nov 7 02:41:20 2016	Hoshino Suharu	measurement from 251 494850Ca F5 C wedge F7 Empty F11 Empty			257	494850Ca		F5 C wedge F7 Empty F11 Empty
----	-------------------------	-------------------	---	--	--	-----	----------	--	----------------------------------

d03> start

Run information

```
Run name   : radiioff
Run number : 257
Run status : START
Start date : 07-Nov-16 01:25:21
Header     : F11 6mmC in
```

d03> stop

```

d03> stop
Ender : header miss F11 out
Run information
Run name : radiioff
Run number : 257
Run status : IDLE
Start date : 07-Nov-16 01:25:21
Stop date : 07-Nov-16 01:44:53
Header : F11 6mmC in
Ender : header miss F11 out

```

```

Last event number
EFN Nickname EVTN
21 ccnet01 2217138
22 ccnet02 2217138
23 ccnet03 2217138
25 ccnet05 2217138
26 ccnet06 2217138
27 ccnet07 2217138
28 ccnet08 2217138
71 F3VME 2217138
82 sva02 2217138
83 sva03 2217138

```

26	Mon Nov 7 02:40:48 2016	Hoshino Suharu	measurement from 251 494850Ca F5 C wedge F7 Empty F11 C 6mm			256	494850Ca		F5 C wedge F7 Empty F11 C 6mm
----	-------------------------	----------------	--	--	--	-----	----------	--	-------------------------------

```

d03> start
Run information
Run name : radiioff
Run number : 256
Run status : START
Start date : 07-Nov-16 00:47:03
Header : F11PL TDC retuned again

```

```

d03> getevtnumber
Event built number = 3215122
d03> getevtnumber
Event built number = 3216910
d03> stop
Ender : stop successfully

```

```

Run information
Run name : radiioff
Run number : 256
Run status : IDLE
Start date : 07-Nov-16 00:47:03
Stop date : 07-Nov-16 01:25:01
Header : F11PL TDC retuned again
Ender : stop successfully

```

```

Last event number
EFN Nickname EVTN
21 ccnet01 4439642
22 ccnet02 4439642
23 ccnet03 4439642
25 ccnet05 4439642
26 ccnet06 4439642
27 ccnet07 4439642
28 ccnet08 4439642
71 F3VME 4439642
82 sva02 4439642
83 sva03 4439642

```

25	Mon Nov 7 02:40:18 2016	Hoshino Suharu	measurement from 251 494850Ca F5 C wedge F7 Empty F11 C 6mm			255	494850Ca		F5 C wedge F7 Empty F11 C 6mm
----	-------------------------	----------------	--	--	--	-----	----------	--	-------------------------------

```
d03> start
Run information
Run name   : radiioff
Run number : 255
Run status : START
Start date : 07-Nov-16 00:41:40
Header    : F11PL TDC retuned
```

```
d03> stop
Ender :
nssta
Run information
Run name   : radiioff
Run number : 255
Run status : IDLE
Start date : 07-Nov-16 00:41:40
Stop date  : 07-Nov-16 00:46:03
Header    : F11PL TDC retuned
Ender     :
```

## Last event number

```
EFN Nickname EVTN
21 ccnet01   500343
22 ccnet02   500343
23 ccnet03   500343
25 ccnet05   500343
26 ccnet06   500343
27 ccnet07   500343
28 ccnet08   500343
71 F3VME     500343
82 sva02     500343
83 sva03     500343
```

24	Mon Nov 7 02:39:43 2016	Hoshino Suharu	measurement from 251 measurement from 251 494850Ca F5 C wedge F7 Empty F11 C 6mm			254	494850Ca		F5 C wedge F7 Empty F11 C 6mm
----	-------------------------	-------------------	--	--	--	-----	----------	--	-------------------------------------

```
d03> start
Run information
Run name   : radiioff
Run number : 254
Run status : START
Start date : 07-Nov-16 00:25:31
Header    : F5IC 5 channels connect to ch1
```

```
d03> stop
Ender :
Run information
Run name   : radiioff
Run number : 254
Run status : IDLE
Start date : 07-Nov-16 00:25:31
Stop date  : 07-Nov-16 00:36:00
Header    : F5IC 5 channels connect to ch1
Ender     :
```

## Last event number

```
EFN Nickname EVTN
21 ccnet01   1163933
22 ccnet02   1163933
23 ccnet03   1163933
25 ccnet05   1163933
26 ccnet06   1163933
27 ccnet07   1163933
28 ccnet08   1163933
71 F3VME     1163933
82 sva02     1163933
83 sva03     1163933
```

23	Sun Nov 6 23:25:55 2016	Hoshino Suharu	measurement from here 494850Ca F5 C wedge F7 Empty F11 C 6mm			251	494850Ca		F5 C wedge F7 Empty F11 C 6mm
----	-------------------------	-------------------	--	--	--	-----	----------	--	-------------------------------------

```
Run information
Run name   : radiioff
Run number : 251
Run status : START
Start date : 06-Nov-16 22:44:12
Header    : Use exp start, 49Ca tuning run
```

```
d03> stop
Ender :
Run information
Run name   : radiioff
Run number : 251
```

```

Run number : 251
Run status : IDLE
Start date : 06-Nov-16 22:44:12
Stop date  : 06-Nov-16 23:24:11
Header     : Use exp start, 49Ca tuning run
Ender      :

```

## Last event number

```

EFN Nickname EVTN
21 ccnet01   2883364
22 ccnet02   2883364
23 ccnet03   2883364
25 ccnet05   2883364
26 ccnet06   2883364
27 ccnet07   2883364
28 ccnet08   2883364
71 F3VME     2883364
82 sva02     2883364
83 sva03     2883364

```

22	Sun Nov 6 17:23:59 2016	Igosawa Ryo	measurement from 214 58Ni F5 empty F7 Ch2in F11 C6mm			221	58Ni		F5 empty F7 Ch2in F11 C6mm
----	-------------------------	-------------	---	--	--	-----	------	--	-------------------------------

d03&gt; start

## Run information

```

Run name : radiioff
Run number : 221
Run status : START
Start date : 06-Nov-16 16:47:35
Header : F11 empty -> C 6mm

```

d03&gt; stop

Ender :

## Run information

```

Run name : radiioff
Run number : 221
Run status : IDLE
Start date : 06-Nov-16 16:47:35
Stop date : 06-Nov-16 17:21:28
Header : F11 empty -> C 6mm
Ender :

```

## Last event number

```

EFN Nickname EVTN
21 ccnet01   3994429
22 ccnet02   3994429
23 ccnet03   3994429
25 ccnet05   3994429
26 ccnet06   3994429
27 ccnet07   3994429
28 ccnet08   3994429
71 F3VME     3994429
82 sva02     3994429
83 sva03     3994429

```

21	Sun Nov 6 17:22:03 2016	Igosa							
----	-------------------------	-------	--	--	--	--	--	--	--

20	Sun Nov 6 16:49:08 2016	Igosawa Ryo	measurement from 214 58Ni F5 empty F7 Ch2in F11 empty			220	58Ni		F5 empty F7 Ch2in F11 empty
----	-------------------------	-------------	--	--	--	-----	------	--	--------------------------------

d03&gt; start

## Run information

```

Run name : radiioff
Run number : 220
Run status : START
Start date : 06-Nov-16 16:15:09
Header : F5 empty F7 CH2 F11 empty

```

d03&gt; stop

Ender :

## Run information

```

Run name : radiioff
Run number : 220
Run status : IDLE
Start date : 06-Nov-16 16:15:09
Stop date : 06-Nov-16 16:46:00
Header : F5 empty F7 CH2 F11 empty
Ender :

```

## Last event number

```

EFN Nickname EVTN
21 ccnet01   3438628
22 ccnet02   3438628
23 ccnet03   3438628
25 ccnet05   3438628
26 ccnet06   3438628
27 ccnet07   3438628

```

27 ccnet07 3438628  
 28 ccnet08 3438628  
 71 F3VME 3438628  
 82 sva02 3438628  
 83 sva03 3438628

19	Sun Nov 6 16:42:09 2016	Igosawa Ryo	tuning 58Ni F5 empty F7 Ch2in F11 empty			219	58Ni		F5 empty F7 Ch2in F11 empty
----	-------------------------	-------------	---	--	--	-----	------	--	--------------------------------

d03> start

Run information

Run name : radiioff  
 Run number : 218  
 Run status : START  
 Start date : 06-Nov-16 15:47:29  
 Header : F5,F7:continue F11:empty

d03> stop

Ender :

Run information

Run name : radiioff  
 Run number : 218  
 Run status : IDLE  
 Start date : 06-Nov-16 15:47:29  
 Stop date : 06-Nov-16 16:07:41  
 Header : F5,F7:continue F11:empty  
 Ender :

Last event number

EFN Nickname EVTN

21 ccnet01 2281838  
 22 ccnet02 2281838  
 23 ccnet03 2281838  
 25 ccnet05 2281838  
 26 ccnet06 2281838  
 27 ccnet07 2281838  
 28 ccnet08 2281838  
 71 F3VME 2281838  
 82 sva02 2281838  
 83 sva03 2281838

18	Sun Nov 6 16:40:54 2016	Igosawa Ryo	measurement from 214 58Ni F5,7 continue F11 empty			218	58Ni		F5 C wedge F7 empty F11 empty
----	-------------------------	-------------	--	--	--	-----	------	--	----------------------------------

d03> start

Run information

Run name : radiioff  
 Run number : 218  
 Run status : START  
 Start date : 06-Nov-16 15:47:29  
 Header : F5,F7:continue F11:empty

d03> stop

Ender :

Run information

Run name : radiioff  
 Run number : 218  
 Run status : IDLE  
 Start date : 06-Nov-16 15:47:29  
 Stop date : 06-Nov-16 16:07:41  
 Header : F5,F7:continue F11:empty  
 Ender :

Last event number

EFN Nickname EVTN

21 ccnet01 2281838  
 22 ccnet02 2281838  
 23 ccnet03 2281838  
 25 ccnet05 2281838  
 26 ccnet06 2281838  
 27 ccnet07 2281838  
 28 ccnet08 2281838  
 71 F3VME 2281838  
 82 sva02 2281838  
 83 sva03 2281838

17	Sun Nov 6 16:39:07 2016	Igosawa Ryo	measurement from 214 58Ni. F5 C wedge, F7 empty, F11 C plate			217	58Ni.		F5 C wedge, F7 empty, F11 C plate
----	-------------------------	-------------	--	--	--	-----	-------	--	---

```
d03> start
Run information
Run name   : radiioff
Run number : 217
Run status : START
Start date : 06-Nov-16 15:25:19
Header    : F5,F7:continue F11:C6mm in
```

```
d03> stop
Ender :
Run information
Run name   : radiioff
Run number : 217
Run status : IDLE
Start date : 06-Nov-16 15:25:19
Stop date  : 06-Nov-16 15:46:06
Header    : F5,F7:continue F11:C6mm in
Ender     :
```

## Last event number

```
EFN Nickname EVTN
21 ccnet01   2185744
22 ccnet02   2185744
23 ccnet03   2185744
25 ccnet05   2185744
26 ccnet06   2185744
27 ccnet07   2185744
28 ccnet08   2185744
71 F3VME     2185744
82 sva02     2185744
83 sva03     2185744
```

16	Sun Nov 6 16:37:40 2016	Igosawa Ryo	tuning 58Ni. F5 C wedge, F7 empty, F11 C plate			216	58Ni.		F5 C wedge, F7 empty, F11 C plate
----	-------------------------	-------------	--	--	--	-----	-------	--	-----------------------------------

```
d03> start
Run information
Run name   : radiioff
Run number : 216
Run status : START
Start date : 06-Nov-16 15:11:04
Header    : F5,F7:continue F11:C6mm in
```

```
d03> stop
Ender : DAQ maybe broken
Run information
Run name   : radiioff
Run number : 216
Run status : IDLE
Start date : 06-Nov-16 15:11:04
Stop date  : 06-Nov-16 15:13:58
Header    : F5,F7:continue F11:C6mm in
Ender     : DAQ maybe broken
```

## Last event number

```
EFN Nickname EVTN
21 ccnet01   0
22 ccnet02   0
23 ccnet03   0
25 ccnet05   0
26 ccnet06   0
27 ccnet07   0
28 ccnet08   0
71 F3VME     0
82 sva02     0
83 sva03     0
```

\*\*\* GTOERROR Unexpected EOB busy15

15	Sun Nov 6 16:36:37 2016	Igosawa Ryo	measurement from 214 58Ni. F5 C wedge, F7 empty, F11 C plate			215	58Ni.		F5 C wedge, F7 empty, F11 C plate
----	-------------------------	-------------	--	--	--	-----	-------	--	-----------------------------------

```
d03> start
Run information
Run name   : radiioff
Run number : 215
Run status : START
Start date : 06-Nov-16 14:12:29
Header    : F5,F7:continue F11:C6mm in
```

```
d03> stop
Ender :
Run information
Run name   : radiioff
Run number : 215
Run status : IDLE
Start date : 06-Nov-16 14:12:29
```



Start date : 06-Nov-16 14:12:29  
 Stop date : 06-Nov-16 15:10:03  
 Header : F5,F7:continue F11:C6mm in  
 Ender :

## Last event number

EFN Nickname EVTN  
 21 ccnet01 6437184  
 22 ccnet02 6437184  
 23 ccnet03 6437184  
 25 ccnet05 6437184  
 26 ccnet06 6437184  
 27 ccnet07 6437184  
 28 ccnet08 6437184  
 71 F3VME 6437184  
 82 sva02 6437184  
 83 sva03 6437184

14	Sun Nov 6 14:17:35 2016	R.Yanagihara	measurement from 214 58Ni F5Cwedge10mm F7empty F11empty			214	58Ni		F5Cwedge10mm F7empty F11empty
----	-------------------------	--------------	---	--	--	-----	------	--	-------------------------------------

d03&gt; start

## Run information

Run name : radiioff  
 Run number : 214  
 Run status : START  
 Start date : 06-Nov-16 13:10:07  
 Header : F5>C wedge F7>empty F11>empty

d03&gt; stop

Ender : stop successfully

## Run information

Run name : radiioff  
 Run number : 214  
 Run status : IDLE  
 Start date : 06-Nov-16 13:10:07  
 Stop date : 06-Nov-16 14:10:44  
 Header : F5>C wedge F7>empty F11>empty  
 Ender : stop successfully

## Last event number

EFN Nickname EVTN  
 21 ccnet01 6803644  
 22 ccnet02 6803644  
 23 ccnet03 6803644  
 25 ccnet05 6803644  
 26 ccnet06 6803644  
 27 ccnet07 6803644  
 28 ccnet08 6803644  
 71 F3VME 6803644  
 82 sva02 6803644  
 83 sva03 6803644

13	Sun Nov 6 08:47:59 2016	Hoshino Suharu	measurement from 174 596058Ni F5empty F7CH2plate10mm F11empty			178	596058Ni		F5empty F7CH2plate10mm F11empty
----	-------------------------	-------------------	--	--	--	-----	----------	--	---------------------------------------

d03&gt; start

## Run information

Run name : radiioff  
 Run number : 178  
 Run status : START  
 Start date : 06-Nov-16 08:32:51  
 Header : F5>out F7 >CH2 F11>out

d03&gt; stop

Ender :

## Run information

Run name : radiioff  
 Run number : 178  
 Run status : IDLE  
 Start date : 06-Nov-16 08:32:51  
 Stop date : 06-Nov-16 08:43:58  
 Header : F5>out F7 >CH2 F11>out  
 Ender :

## Last event number

EFN Nickname EVTN  
 21 ccnet01 1268450  
 22 ccnet02 1268450  
 23 ccnet03 1268450  
 25 ccnet05 1268450  
 26 ccnet06 1268450  
 27 ccnet07 1268450  
 28 ccnet08 1268450  
 71 F3VME 1268450

71 F3VME 1268450  
 82 sva02 1268450  
 83 sva03 1268450

12	Sun Nov 6 08:47:25 2016	Hoshino Suharu	measurement from 174 596058Ni F5empty F7CH2plate10mm F11empty			177	596058Ni		F5empty F7CH2plate10mm F11empty
----	-------------------------	-------------------	--	--	--	-----	----------	--	---------------------------------------

d03&gt; start

## Run information

Run name : radiioff  
 Run number : 177  
 Run status : START  
 Start date : 06-Nov-16 08:11:00  
 Header : F5>out F7 >CH2 F11 C 6mm

d03&gt; stop

Ender :

## Run information

Run name : radiioff  
 Run number : 177  
 Run status : IDLE  
 Start date : 06-Nov-16 08:11:00  
 Stop date : 06-Nov-16 08:32:31  
 Header : F5>out F7 >CH2 F11 C 6mm  
 Ender :

## Last event number

EFN Nickname EVTN  
 21 ccnet01 2439418  
 22 ccnet02 2439418  
 23 ccnet03 2439418  
 25 ccnet05 2439418  
 26 ccnet06 2439418  
 27 ccnet07 2439418  
 28 ccnet08 2439418  
 71 F3VME 2439418  
 82 sva02 2439418  
 83 sva03 2439418

11	Sun Nov 6 08:46:18 2016	Hoshino Suharu	measurement from 174 596058Ni F5Cwedge10mm F7empty F11C6mm			176	596058Ni		F5Cwedge10mm F7empty F11C6mm
----	-------------------------	-------------------	---	--	--	-----	----------	--	------------------------------------

d03&gt; start

## Run information

Run name : radiioff  
 Run number : 176  
 Run status : START  
 Start date : 06-Nov-16 07:21:04  
 Header : F11 >> C 6mm F5 continue

d03&gt; stop

Ender :

## Run information

Run name : radiioff  
 Run number : 176  
 Run status : IDLE  
 Start date : 06-Nov-16 07:21:04  
 Stop date : 06-Nov-16 08:07:10  
 Header : F11 >> C 6mm F5 continue  
 Ender :

## Last event number

EFN Nickname EVTN  
 21 ccnet01 5325213  
 22 ccnet02 5325213  
 23 ccnet03 5325213  
 25 ccnet05 5325213  
 26 ccnet06 5325213  
 27 ccnet07 5325213  
 28 ccnet08 5325213  
 71 F3VME 5325213  
 82 sva02 5325213  
 83 sva03 5325213

10	Sun Nov 6 08:45:37 2016	Hoshino Suharu	measurement from 174 596058Ni F5Cwedge10mm F7empty F11empty			175	596058Ni		F5Cwedge10mm F7empty F11empty
----	-------------------------	-------------------	--	--	--	-----	----------	--	-------------------------------------

03&gt; start

## Run information

Run name : radiioff  
 Run number : 175  
 Run status : START

```
Run status : START
Start date : 06-Nov-16 07:06:16
Header    : F11 >> Empty F5 continue
```

```
d03> stop
```

```
Ender :
```

```
Run information
```

```
Run name   : radiioff
Run number : 175
Run status : IDLE
Start date : 06-Nov-16 07:06:16
Stop date  : 06-Nov-16 07:20:25
Header     : F11 >> Empty F5 continue
```

```
Ender
```

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```
Last event number
```

```
EFN Nickname EVTN
```

```
21 ccnet01 1626431
22 ccnet02 1626431
23 ccnet03 1626431
25 ccnet05 1626431
26 ccnet06 1626431
27 ccnet07 1626431
28 ccnet08 1626431
71 F3VME   1626431
82 sva02   1626431
83 sva03   1626431
```

9	Sun Nov 6 08:44:56 2016	Hoshino Suharu	measurement from 174 596058Ni F5Cwedge10mm F7empty F11C3.5mm			174	596058Ni		F5Cwedge10mm F7empty F11C3.5mm
---	-------------------------	-------------------	---	--	--	-----	----------	--	--------------------------------------

```
d03> start
```

```
Run information
```

```
Run name   : radiioff
Run number : 174
Run status : START
Start date : 06-Nov-16 06:25:16
Header     : F5 C wedge F11 c 3.5mm
```

```
d03> stop
```

```
Ender :
```

```
Run information
```

```
Run name   : radiioff
Run number : 174
Run status : IDLE
Start date : 06-Nov-16 06:25:16
Stop date  : 06-Nov-16 07:05:34
Header     : F5 C wedge F11 c 3.5mm
Ender     :
```

```
Last event number
```

```
EFN Nickname EVTN
```

```
21 ccnet01 4478885
22 ccnet02 4478885
23 ccnet03 4478885
25 ccnet05 4478885
26 ccnet06 4478885
27 ccnet07 4478885
28 ccnet08 4478885
71 F3VME   4478885
82 sva02   4478885
83 sva03   4478885
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8	Sun Nov 6 08:42:45 2016	Hoshino Suharu	tuning 59,60,58Ni F5Cwedge10mm F7empty F11C3.5mm			173	59,60,58Ni		F5Cwedge10mm F7empty F11C3.5mm
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