

[BRIKEN](#) | [Discussion](#) | [EURICA](#) | [Experiment Log](#) | [General Log](#) | [SAMURAI](#) | [SUNFLOWER](#) | [Test and Examples](#) | [BigRIPS](#) | [User Experiments](#) | [MUST2 2010](#) | [CAITEN 2010](#) | [Isospin Diffusion 2013](#) | [Transmutation Spring 2014](#) | [Transmutation Spring 2015](#) | [Transmutation Auto](#)

RIBF123, Page 1 of 12

[New](#) | [Find](#) | [Select](#) | [CSV Import](#) | [Config](#) | [Logout](#) | [Help](#)

[Full](#) | [Summary](#) | [Threaded](#) | [Hide attachments](#)

[Goto page 1, 2, 3 ... 10, 11, 12](#)
[Next](#)
[All](#)

ID	Date	Author	Subject	Type
241	Fri Dec 2 00:16:13 2016	BRIKEN collaboration	run	

===== START =====

Date 2016/12/01  
 Start time : 19:35  
 BRIKEN run : 213  
 Daq Conf. File : 161129\_1926\_Conf\_BrikenFull.xlsx  
 DLT File name : 161201\_1935  
 AIDA run : R44\_1  
 AIDA start : 19:35  
 BigRIPS run : 1130  
 BigRIPS start : 18:56

----- Shifters: AT & AT, Liu, AA

===== Setup =====

Central fragment: 40Mg @F8

--- Degraders ---

Fixed: 5mm Al among Musics chambers + 3 mm Al in the PE Shielding between

Variable:

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

1. IN
2. IN
3. IN

===== COMMENTS =====

20:56 Beam is stopped for stripper foil change, daq is keeping running, BigRIPS file: 1131  
 21:05 Beam is back,  
 21:56 Saved ---> SyncCheckScreen20161201\_2156.png  
 23:23 Saved ---> SyncCheckScreen20161201\_2323.png  
 00:12 Saved ---> VisualScalerScreen20161202\_0010.png  
 01:38 Online saved 161201\_1935\_213\_0138.root  
 02:11 Saved ---> SyncCheckScreen20161202\_0211.png  
 02:13 Beam off.  
 02:16 Beam ON.  
 Saved ---> VisualScalerScreen20161202\_0256.png  
 03:38 Beam off.  
 03:43 Beam ON.  
 04:00 Beam Off for change of stripper foil.  
 06:01 Saved online 161201\_1935\_213\_0601.root  
 Saved ---> SyncCheckScreen20161202\_0610.png

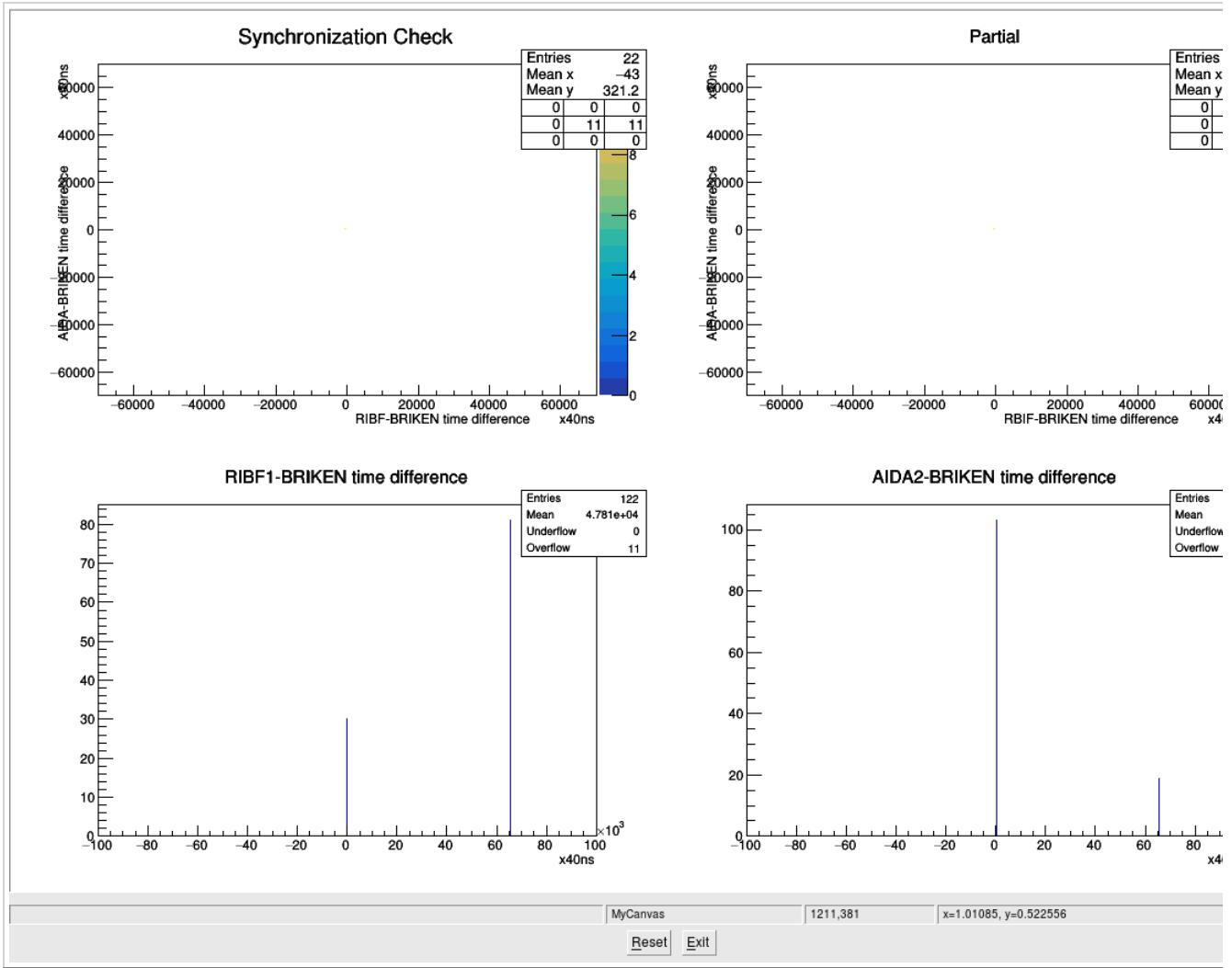
----- Rates -----

RateBRIKEN = 944.498 cps  
 RateF11R = 1421.53 cps  
 RateClovers = 636.961 cps  
 RateVPLT = 68.1139 cps  
 RateVPLB = 25.3215 cps  
 RateAIDAPL = 141.457 cps  
 RateSiT = 144.495 cps  
 RateSiB = 118.661 cps

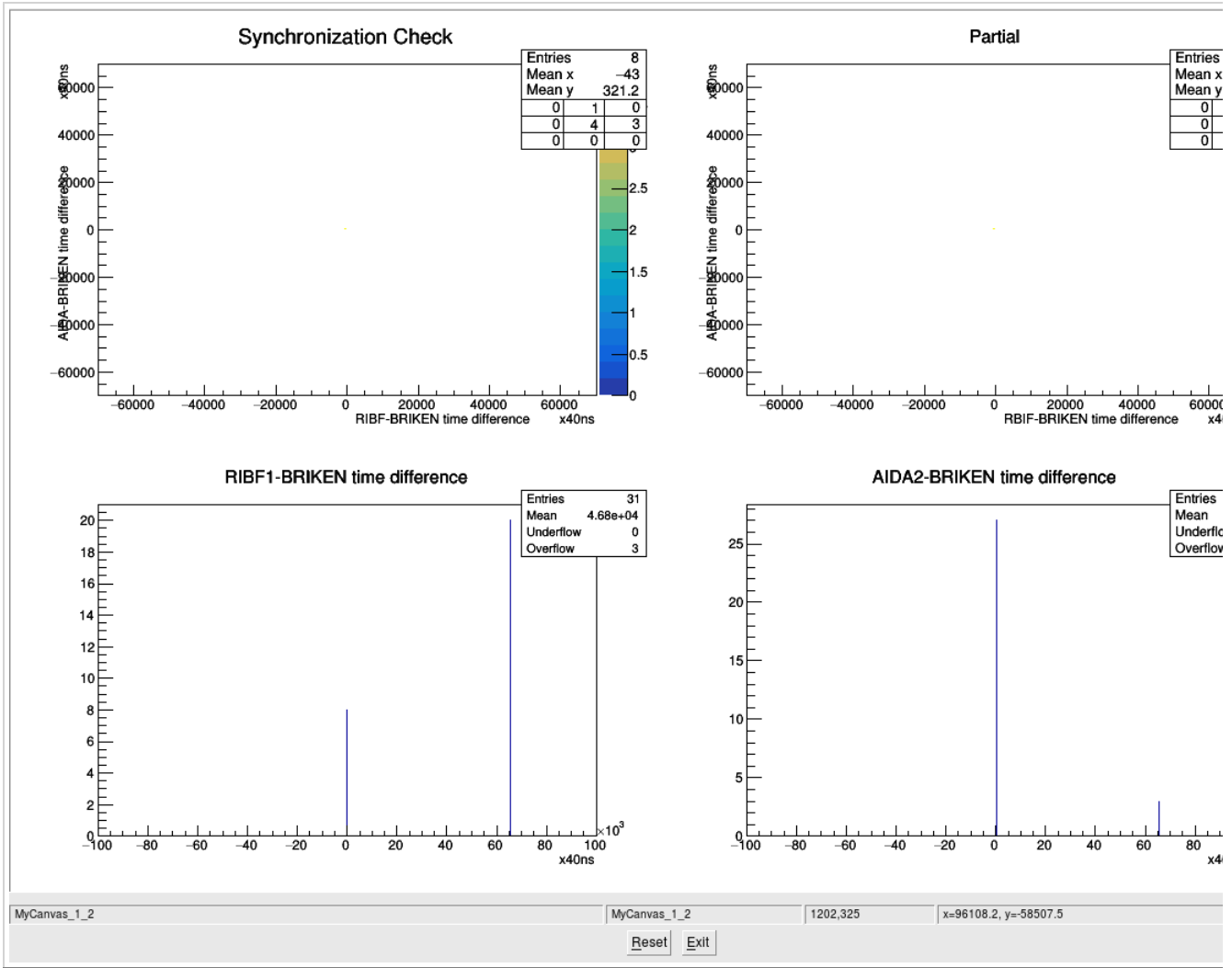
===== END =====

Date 2016/12/02  
 BRIKEN run : 226  
 BRIKEN stop : 06:25  
 ROOT online : 161201\_1935\_213\_0138.root, 161201\_1935\_213\_0601.root, 161201\_1935\_213\_0625.root  
 AIDA run : R44\_227  
 AIDA stop : 06:25  
 BigRIPS RUN : 06:02

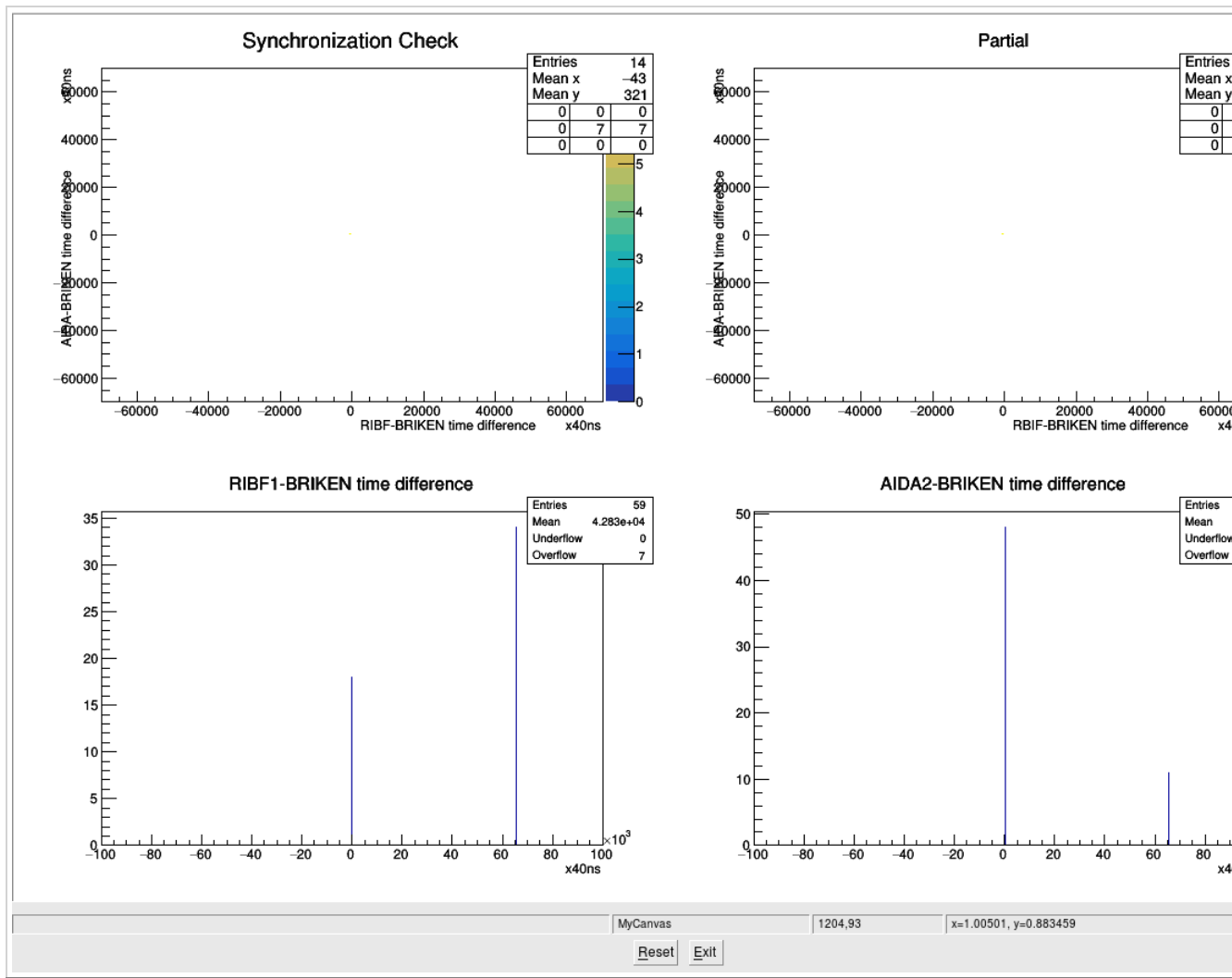
Attachment 1: [SyncCheckScreen20161201\\_2156.png](#)



Attachment 2: SyncCheckScreen20161201\_2323.png



Attachment 3: SyncCheckScreen20161202\_0211.png



Attachment 4: [VisualScalerScreen20161202\\_0256.png](#)

File Edit View History Bookmarks Tools Help

Network Camera

172.27.231.251/CgJStart?page=Single&Language=0

ELOG BRIKEN BRIKEN RIBFDAQ Pag... midas CernBox ELOG RIKEN BigRIPS parameters BigRIPS Run Summary

Top Single Multi Buffered Image Setup Internet Maintenance Support

Click here for LN2\_monitoring

240 Thu Dec 1 18:01:39 2016 BRIKEN collaboration run

```

===== START =====
Date 2016/12/01
Start time      : 17:58
BRIKEN run     : 212
Daq Conf. File : 161129_1926_Conf_BrikenFull.xlsx
DLT File name  : 161201_1758
AIDA run       : R43_64
AIDA start    : 17:58
BigRIPS run   : 1129
BigRIPS start : 17:49

-----
Shifters: AT & AT
===== Setup =====
Central fragment: 40Mg @F8
--- Degraders ---
Fixed: 5mm Al among Musics chambers + 3 mm Al in the PE Shielding between
Variable:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. IN
2. IN
3. IN

===== COMMENTS =====
17:49 ZDS back to 40Mg
17:57 Saved ---> SyncCheckScreen20161201_1757.png
18:02 Saved ---> VisualScalerScreen20161201_1802.png
18:33 Saved ---> VisualScalerScreen20161201_1833.png

----- Rates -----
RateBRIKEN      = 984.87 cps
RateF11R        = 1482.45 cps
RateClovers     = 635.439 cps
RateVPLT        = 71.1662 cps
RateVPLB        = 26.527 cps
RateAIDAPL      = 147.128 cps
RateSiT         = 149.72 cps
RateSiB         = 123.488 cps

===== END =====
Date 2016/12/01
BRIKEN run     : 212
BRIKEN stop    : 1825
ROOT online    : 161201_1758_212_1825.root
AIDA run       : R43_71
    
```

AIDA stop : 1824  
 BigRIPS RUN : 1129

Attachment 1: [VisualScalerScreen20161201\\_1833.png](#)

239	Thu Dec 1 17:19:16 2016	BRIKEN collaboration	run
-----	-------------------------	----------------------	-----

```

===== START =====
Date 2016/12/01
Start time : 17:14
BRIKEN run : 211
Daq Conf. File : 161129_1926_Conf_BrikenFull.xlsx
DLT File name : 161201_1714
AIDA run : R42_55
AIDA start : 17:16
BigRIPS run : 1128
BigRIPS start : 16:43

-----
Shifters: AT & AT
===== Setup =====
Central fragment: 41A1 @F8
--- Degraders ---
Fixed: 5mm Al among Musics chambers + 3 mm Al in the PE Shielding between
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 =====
17:10 Variable degrader modified or this run.
17:17 SyncCheckScreen20161201_1717.png
17:20 Saved scalers VisualScalerScreen20161201_1720.png
There is a higher rate than before.
17:50 Stop the acquisition for change ZDS configuration back to 40Mg.

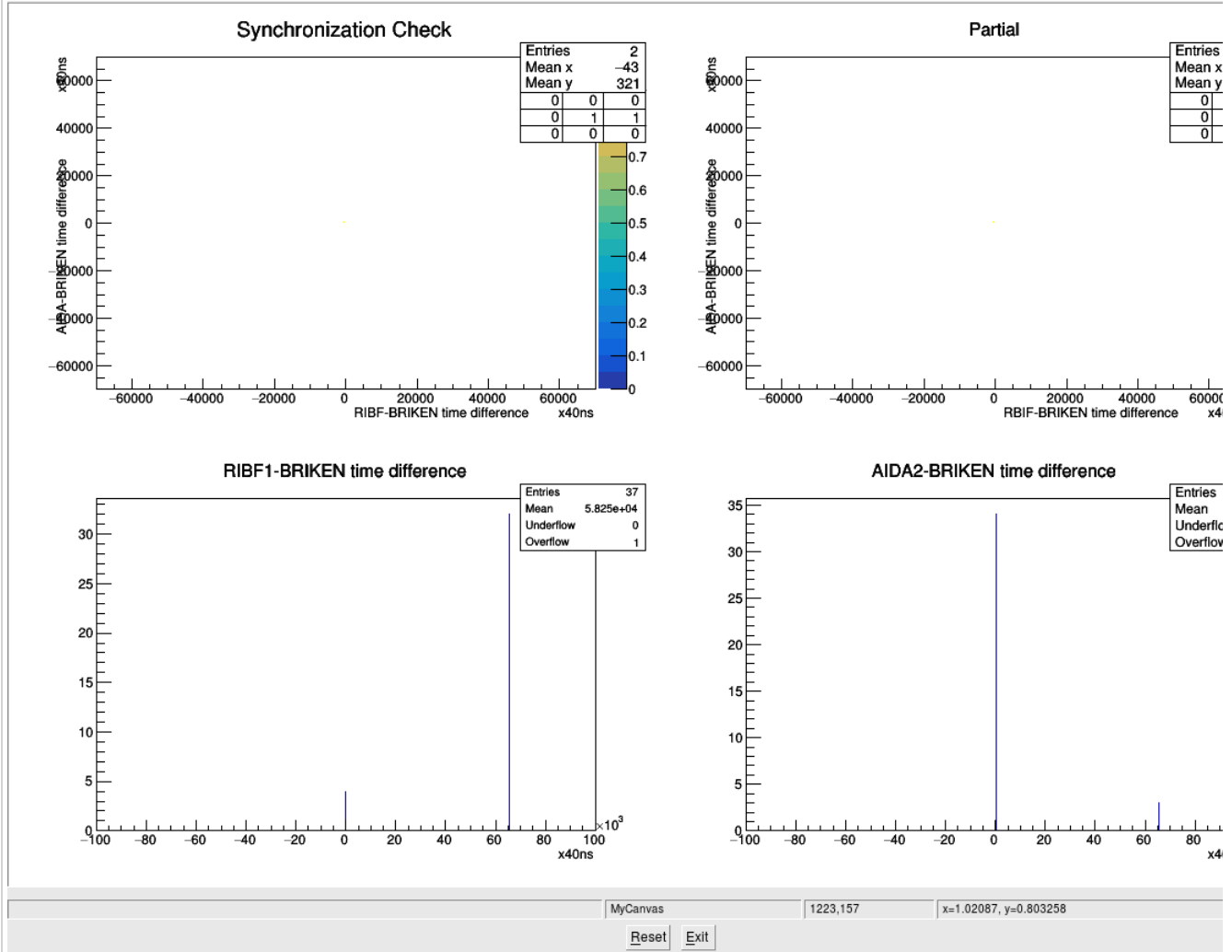
----- Rates -----

RateBRIKEN = 148.174 cps
RateF11R = 379.623 cps
RateClovers = 222.34 cps
RateVPLT = 16.9723 cps
RateVPLB = 7.50521 cps
    
```

RateAIDAPL = 23.8624 cps  
 RateSiT = 45.752 cps  
 RateSiB = 39.8115 cps

=====  
 END  
 Date 2016/12/01  
 BRIKEN run : 211  
 BRIKEN stop : 17:49  
 ROOT online : 161201\_1714\_211\_1752.root  
 AIDA run : R43\_64  
 AIDA stop : 17:52  
 BigRIPS RUN : 1149 (17:49)

Attachment 1: [SyncCheckScreen20161201\\_1717.png](#)



Attachment 2: [VisualScalerScreen20161201\\_1720.png](#)

File Edit View History Bookmarks Tools Help

Network Camera

172.27.231.251/CgJStart?page=Single&Language=0

ELOG BRIKEN BRIKEN RIBFDAQ Pag... midas CernBox ELOG RIKEN BigRIPS parameters BigRIPS Run Summary

Top Single Multi Buffered Image Setup Internet Maintenance Support

Click here for LN2\_monitoring

In case of no audio, please click here.  
<http://panasonic.biz/netsys/netwcam/support/info.html>  
 Running in IPv4 mode.

Attachment 3: [161201\\_1714\\_211\\_1752\\_Rings.png](#)

161201\_1714\_211\_1752\_Rings.png

238	Thu Dec 1 16:28:20 2016	BRIKEN collaboration	run
-----	-------------------------	----------------------	-----

```

===== START =====
Date 2016/12/01
Start time      : 15:52
BRIKEN run     : 209
Daq Conf. File : 161129_1926_Conf_BrikenFull.xlsx
DLT File name  : 161201_1551
AIDA run      : R43_32
AIDA start    : 15:52
BigRIPS run   : 1127
BigRIPS start : 15:26

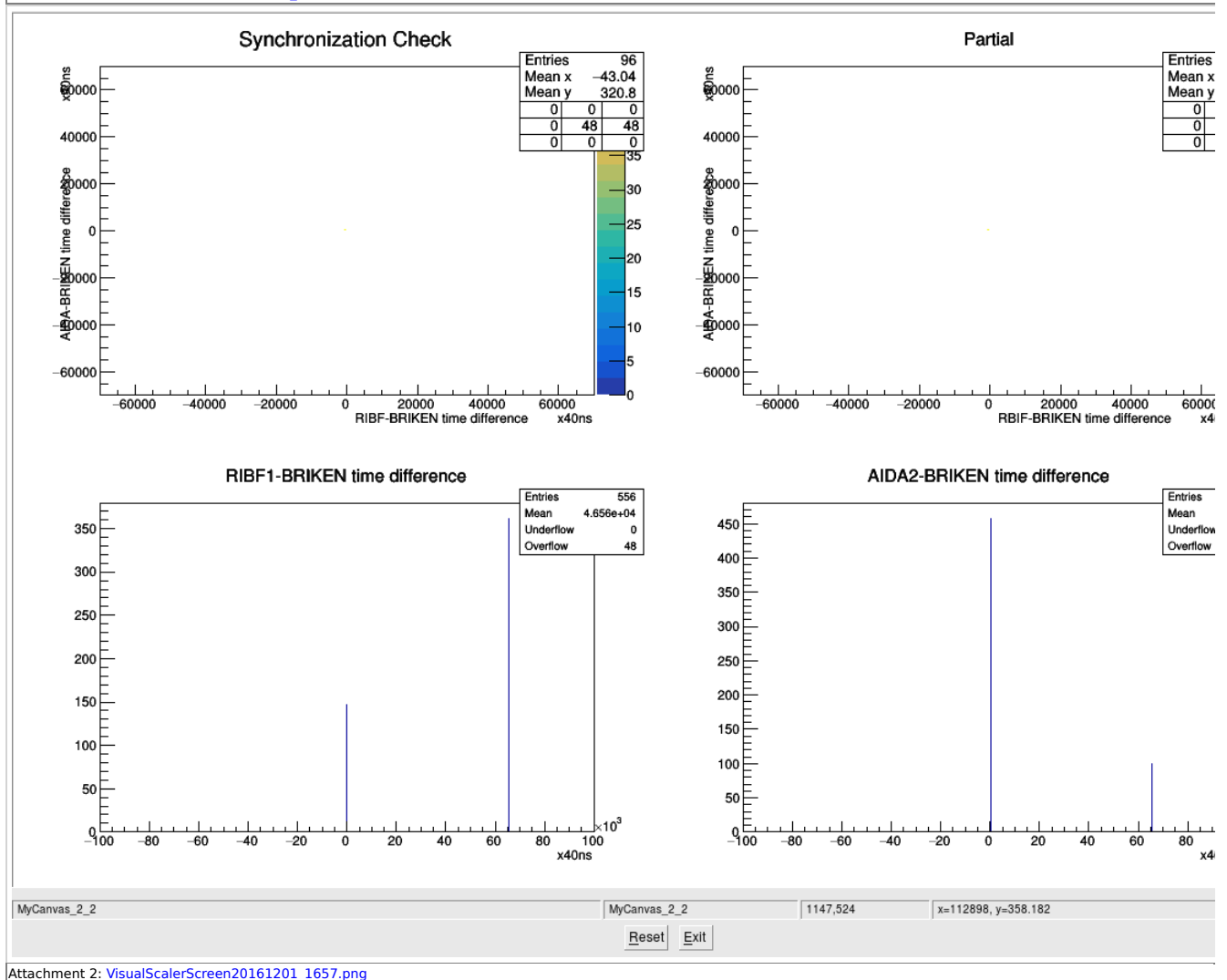
-----
Shifters:
===== Setup =====
Central fragment: 41Al @F8
--- Degraders ---
Fixed: 5mm Al among Musics chambers + 3 mm Al in the PE Shielding between
Variable:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. IN
2. IN
3. IN

===== COMMENTS =====
15:22 Change in Zero degree configuration, from this run 41Al centered in ZDS
16:23 Beam off
16:43 beam on
16:57 Check scalars. VisualScalerScreen20161201_1657.png saved!
17:09 The acquisition is stopped to change degrader
----- Rates -----

===== END =====
Date 2016/12/01
BRIKEN run   :
BRIKEN stop  :
ROOT online  :
AIDA run     : R
AIDA stop    :
BigRIPS RUN  :
    
```



Attachment 1: SyncCheckScreen20161201\_1615.png



Attachment 2: VisualScalerScreen20161201\_1657.png

File Edit View History Bookmarks Tools Help

Network Camera

172.27.231.251/CgJStart?page=Single&Language=0

ELOG BRIKEN BRIKEN RIBFDAQ Pag... midas CernBox ELOG RIKEN BigRIPS parameters BigRIPS Run Summary

Top Single Multi Buffered Image Setup Internet Maintenance Support

Click here for LN2\_monitoring

237 Thu Dec 1 13:36:11 2016 BRIKEN collaboration run

```

===== START =====
Date 2016/11/30
Start time      : 13:29
BRIKEN run     : 205
Daq Conf. File :
DLT File name  : 161201_1329
AIDA run      : R43_3
AIDA start    : 13:29
BigRIPS run   : 1125
BigRIPS start : 13:21

-----
Shifters: CG AT
===== Setup =====
Central fragment: 41A1 @F8
--- Degraders ---
Fixed: 5mm Al among Musics chambers + 3 mm Al in the PE Shielding between
Variable:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. IN
2. IN
3. IN

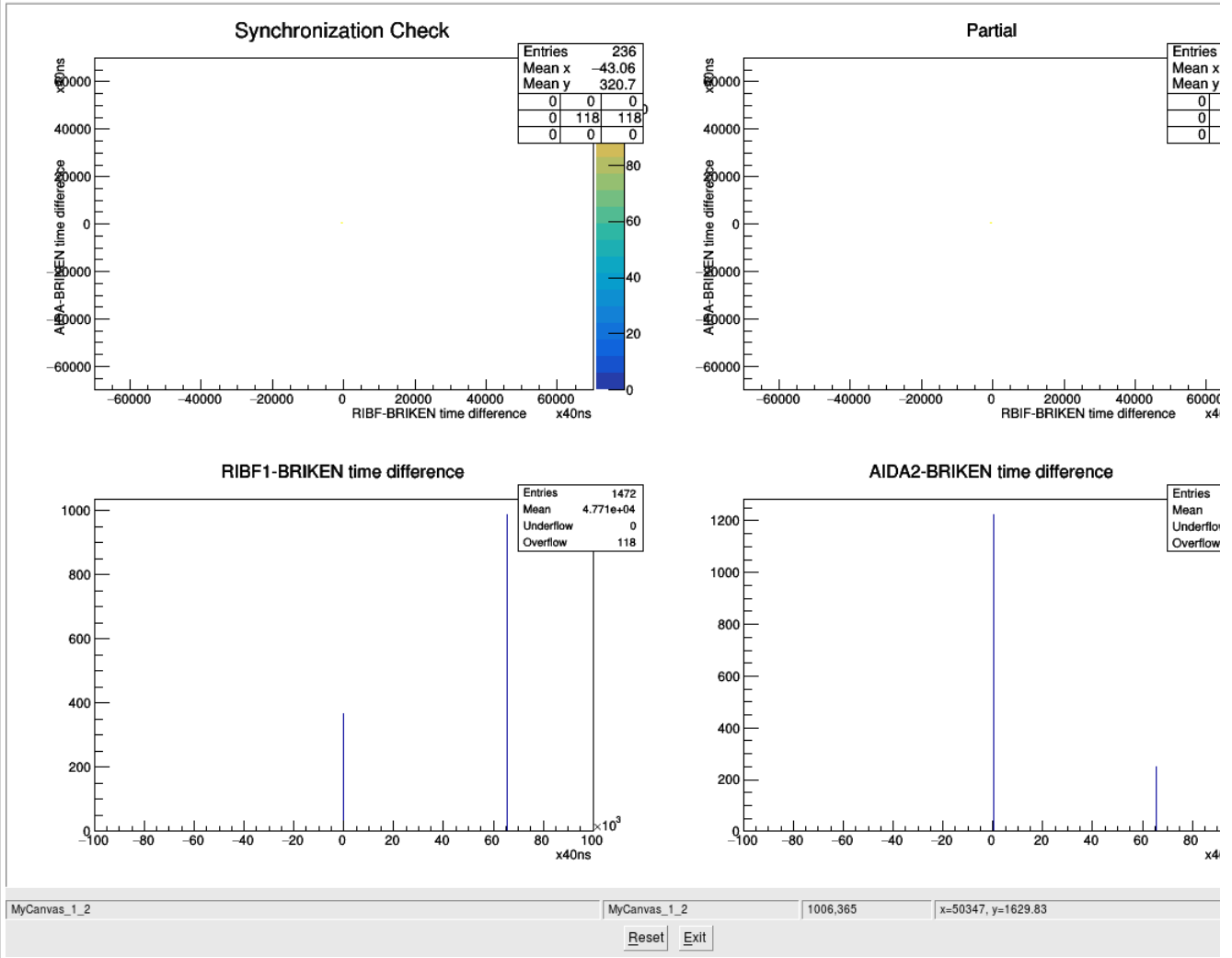
===== COMMENTS =====
13:38 SyncCheckScreen20161201_1338.png

15:10
----- Rates -----
RateBRIKEN      = 908.034 cps
RateF11R        = 1371.04 cps
RateClovers     = 608.977 cps
RateVPLT        = 65.7051 cps
RateVPLB        = 24.4566 cps
RateAIDAPL      = 141.471 cps
RateSiT         = 139.176 cps
RateSiB         = 113.648 cps

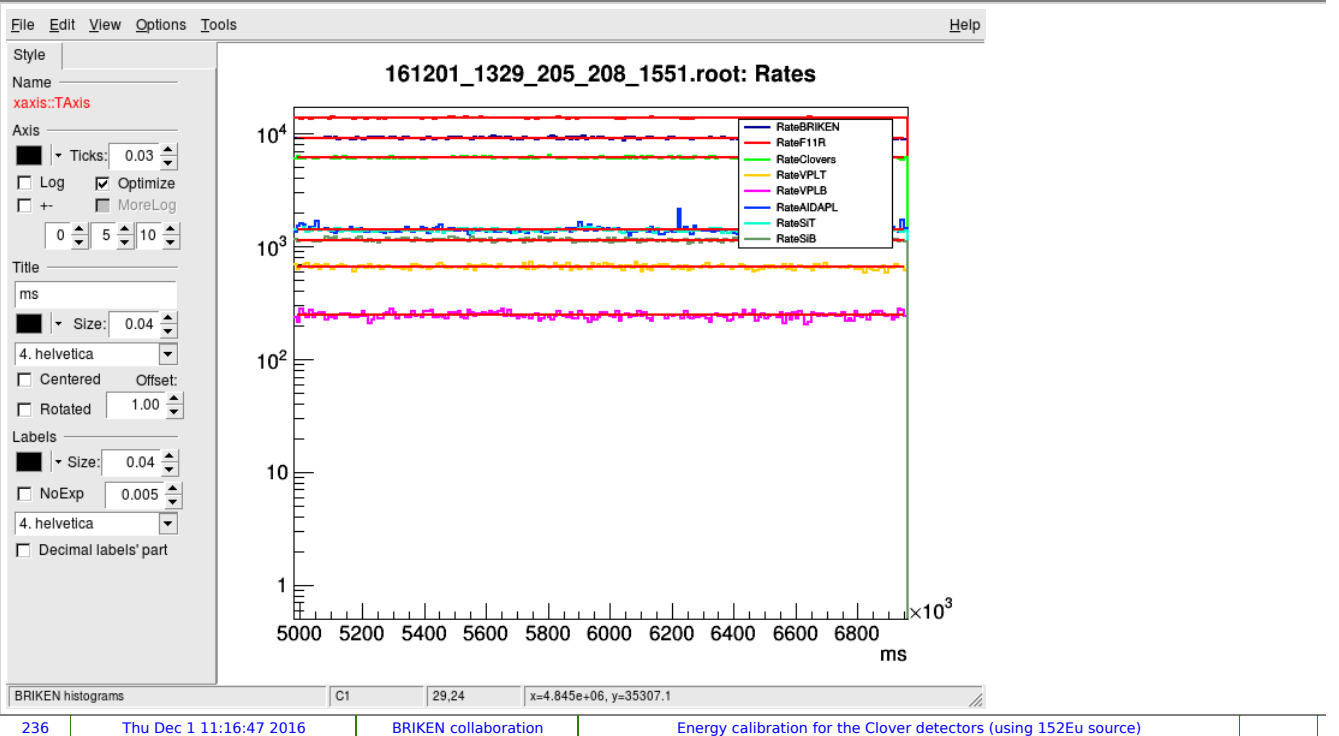
===== END =====
Date 2016/12/01
BRIKEN run     : 208
BRIKEN stop    : 15:51
ROOT online    : 161201_1329_205_208_1551.root
AIDA run       : 43_26
    
```

AIDA stop : 15:24  
 BigRIPS RUN : 1126

Attachment 1: [SyncCheckScreen20161201\\_1338.png](#)



Attachment 2: [SyncCheckScreen20161201\\_1604.png](#)



236 Thu Dec 11 11:16:47 2016 BRIKEN collaboration Energy calibration for the Clover detectors (using 152Eu source)

Calibration using 152Eu source, see: <http://ribf-exp.riken.jp/elog/RIBF123/226>

```
Name Offset Gain
D4Black 0.20722 0.00158
D4Red 0.95595 0.000658107
D4Green 0.90833 0.00153
D4Blue 0.52225 0.00155
G7Black 0.4225 0.000703529
G7Red 0.82803 0.000681375
G7Green 0.86214 0.000667106
G7Blue 0.85175 0.000695161
```

235	Thu Dec 1 10:40:51 2016	BRIKEN collaboration	run
-----	-------------------------	----------------------	-----

```

===== START =====
Date 2016/11/30
Start time      : 10:03
BRIKEN run      : 201
Daq Conf. File  : 161129_1926_Conf_BrikenFull.xlsx
DLT File name   : 161201_1003
AIDA run        : R42_28
AIDA start      : 10:03
BigRIPS run     : 1118
BigRIPS start   : 10:08

-----
Shifters:  CG AT
===== Setup =====
Central fragment: 41Al @F8
--- Degraders ---
Fixed: 5mm Al among Musics chambers + 3 mm Al in the PE Shielding between
Variable:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. IN
2. IN
3. IN

===== COMMENTS =====
10:44 Synchronization: SyncCheckScreen20161201_1044.png
10:45 Scalers: similar as before
11:38 Online saved 161201_1003_201_1138_202.root
11:54 Synchronization: SyncCheckScreen20161201_1154.png
12:47 AIDA daq crash, acquisition is stopped

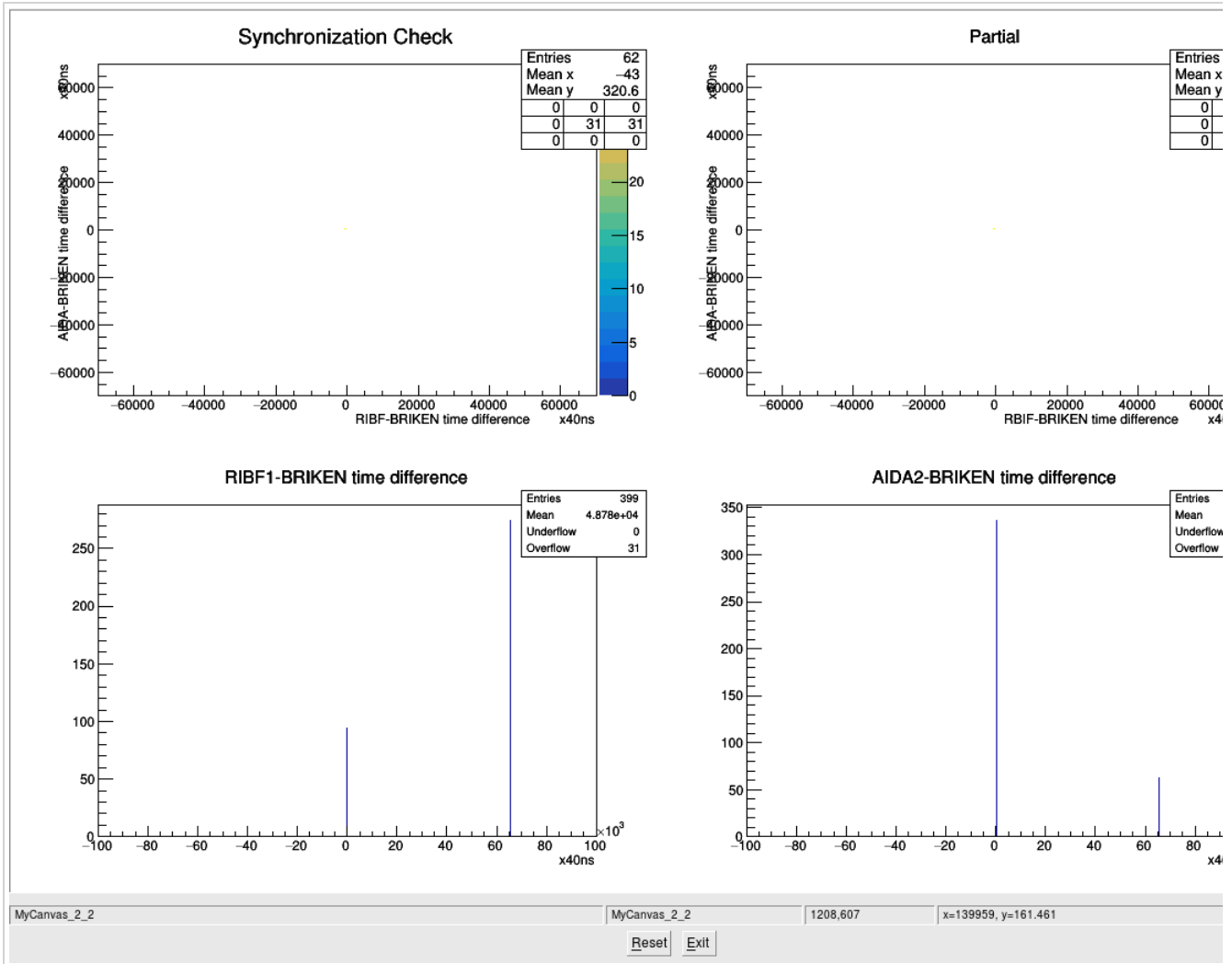
----- Rates -----

RateBRIKEN      = 964.014 cps
RateF11R        = 1453.64 cps
RateClovers     = 632.851 cps
RateVPLT        = 69.4289 cps
RateVPLB        = 25.8206 cps
RateAIDAPL      = 147.718 cps
RateSiT         = 147.961 cps
RateSiB         = 121.058 cps

===== END =====
Date 2016/12/01
BRIKEN run      : 204
BRIKEN stop     : 12:45
ROOT online     : 161201_0747_198_200_1003.root, 161201_1003_201_1138_202.root, 161201_1003_201_1249_204.root
AIDA run        : R42_68
AIDA stop       : 12:42
BigRIPS RUN     : 1024

Attachment 1: SyncCheckScreen20161201\_1044.png

```



Attachment 2: SyncCheckScreen20161201\_1045.png



234	Thu Dec 1 08:02:30 2016	BRIKEN collaboration	New measurement
-----	-------------------------	----------------------	-----------------

```

===== START =====
Date 2016/11/30
Start time      : 7:47
BRIKEN run     : 197
Daq Conf. File : 161129_1926_Conf_BrikenFull.xlsx
DLT File name  : 161201_0747
    
```

```
AIDA run      : R42_1
AIDA start    : 7:47
BigRIPS run   : 1118
BigRIPS start : 06:54
```

```
-----
Shifters:  CG 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. IN
2. IN
3. IN
```

```
===== COMMENTS =====
```

Synchronization reset:

Send Sync Pulse:Thu Dec 1 2016 07:45:50

8:03 Synchronization checked SyncCheckScreen20161201\_0803.png, still two peaks and overflow.

8:24 Scaler checked:

```
F11: 61 cps
VPLT: 91 cps
VPLB: 65 cps
SiT: 278 cps
SiB: 289 cps
AIDAPL: 138 cps
F11 & (VPLT | VPLB ): 10 cps
F11 & AIDAPL: 4 cps
```

```
----- Rates -----
```

```
RateBRIKEN   = 931.216 cps
RateF11R     = 1345.14 cps
RateClovers  = 634.307 cps
RateVPLT     = 58.4549 cps
RateVPLB     = 19.9605 cps
RateAIDAPL   = 137.108 cps
RateSiT      = 144.824 cps
RateSiB      = 116.926 cps
```

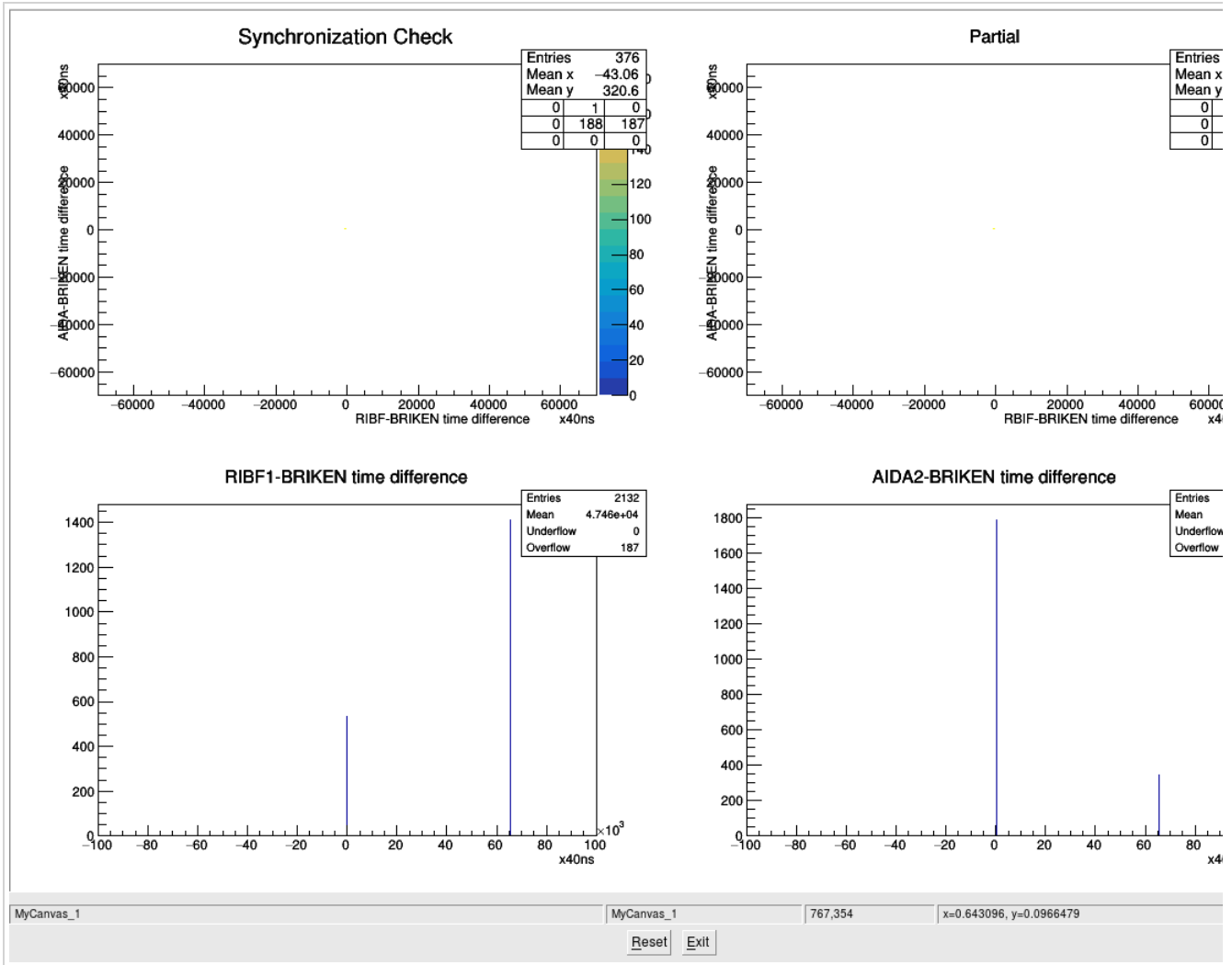
```
===== END =====
```

Date 2016/12/01

```
BRIKEN run   : 200
BRIKEN stop  : 10:03
ROOT online  : 161201_0747_198_200_1003.root
AIDA run     : 42_28
AIDA stop    : no-stop
BigRIPS RUN  : 1121
```

---

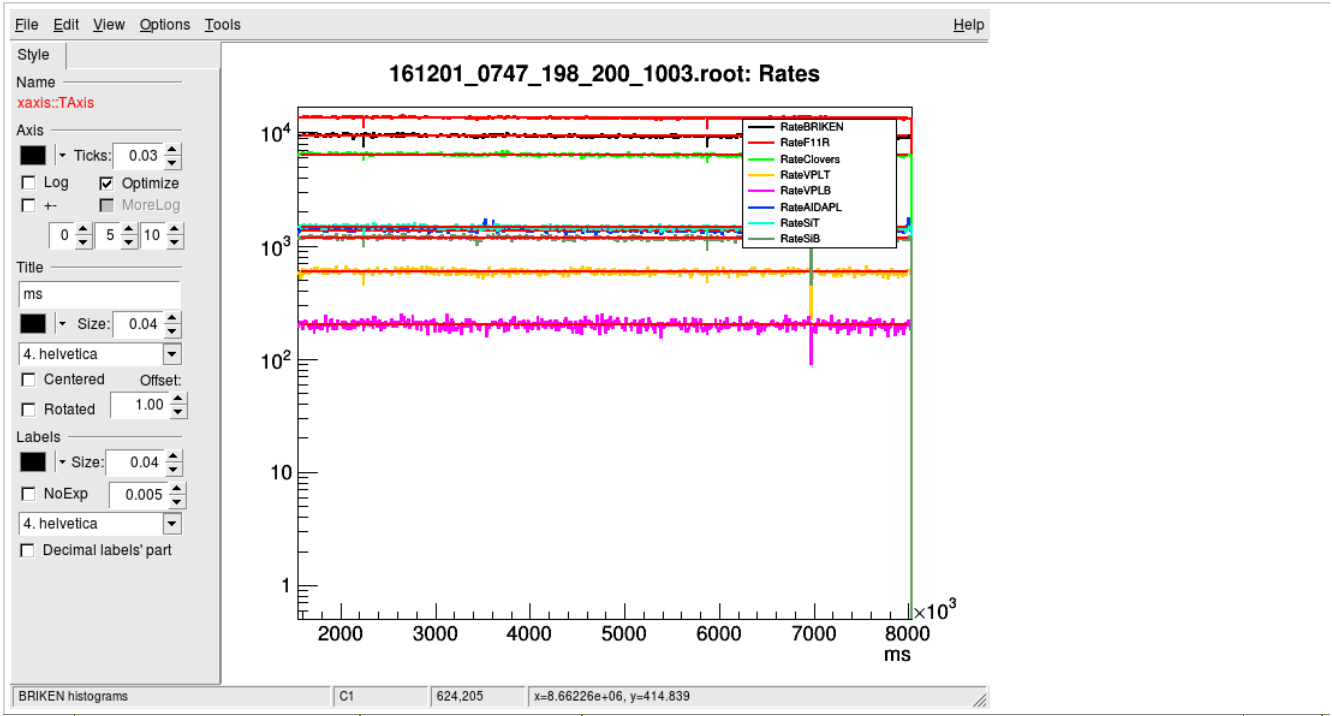
Attachment 1: [SyncCheckScreen20161201\\_0803.png](#)



Attachment 2: 161201\_0824\_Scaler.png



Attachment 3: SyncCheckScreen20161201\_1028.png



233      Wed Nov 30 19:16:35 2016      BRIKEN collaboration      run

```

===== START =====
Date 2016/11/30
Start time   : 19:42
BRIKEN run   : 183
Daq Conf. File : 161129_1926_Conf_BrikenFull.xlsx
DLT File name : 161130_1942
AIDA run     : R41_2
AIDA start   : 19:42
BigRIPS run  : 1107
BigRIPS start : 19:30

-----
Shifters: AT TD
===== 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. IN
2. IN
3. IN

===== COMMENTS =====
Synchronization reset:
Send Sync Pulse:Wed Nov 30 2016 19:33:41
Send Sync Pulse:Wed Nov 30 2016 19:36:05
19:40 Synchronization checked SyncCheckScreen20161130_1940.png, still two peaks and overflow.
21:22 Synchronization checked SyncCheckScreen20161130_2121.png
      Online saved 161130_1942_183_2123.root
21:26 Beam Off
21:43 Beam ON
21:45 VisualScalerScreen20161130_2145.png saved!
23:03 Synchronization checked SyncCheckScreen20161130_2302.png
23:18 Online saved 161130_1942_183_2318.root

2016/12/01
00:42 Online saved 161130_1942_183_0043.root
00:46 checked SyncCheckScreen20161201_0046.png

----- Rates -----
At 21:23
RateBRIKEN   = 989.561 cps
RateF11R     = 1431.46 cps
RateClovers  = 658.729 cps
RateVPLT     = 62.2068 cps
RateVPLB     = 21.2823 cps
RateAIDAPL   = 148.946 cps
RateSiT      = 153.915 cps
RateSiB      = 125.243 cps

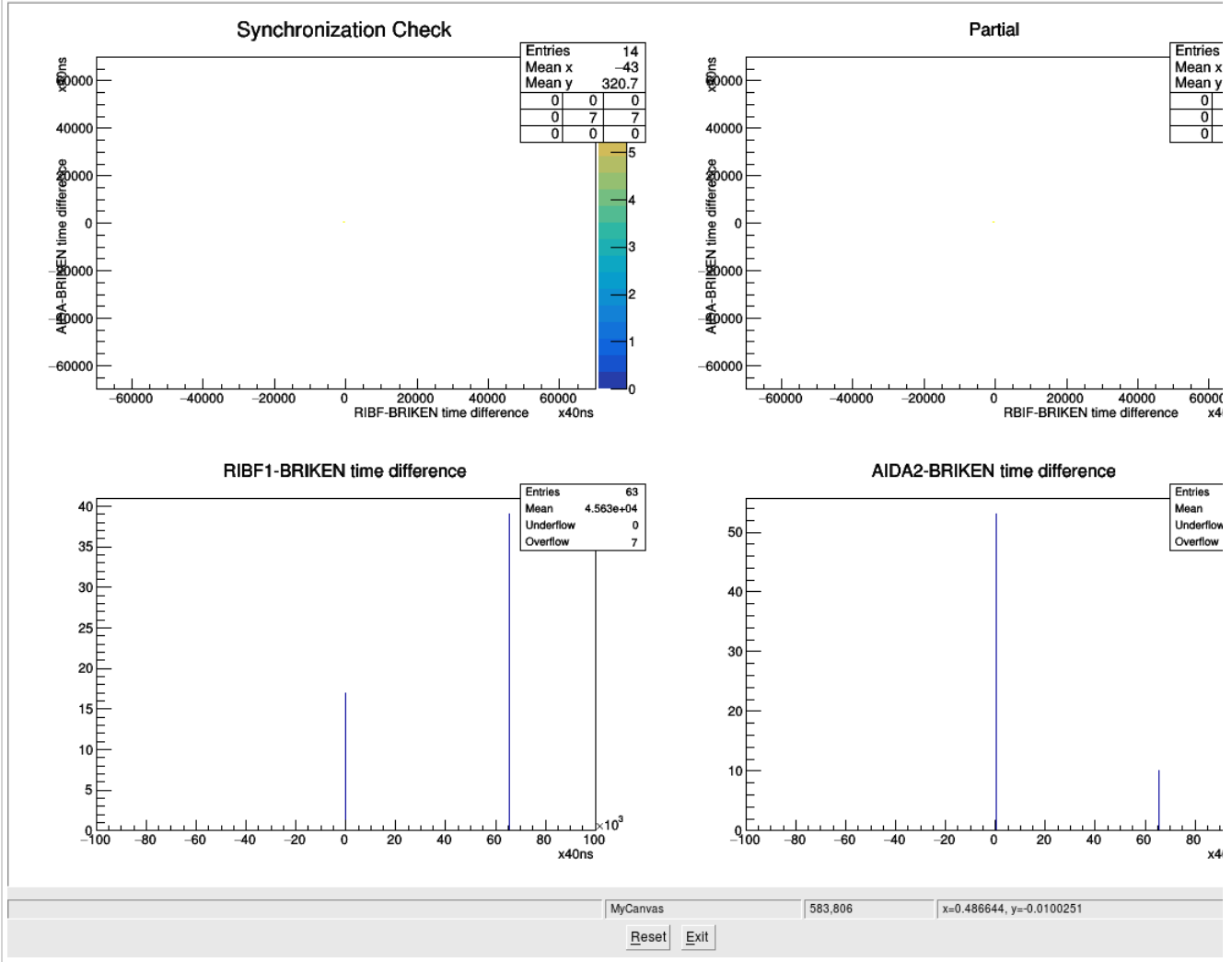
6:26 AIDA & BRIKEN stop (LN refilling)
----- Rates -----
RateBRIKEN   = 998.64 cps
RateF11R     = 1440.91 cps
RateClovers  = 672.712 cps
RateVPLT     = 62.6999 cps
RateVPLB     = 21.3961 cps
RateAIDAPL   = 147.352 cps
    
```



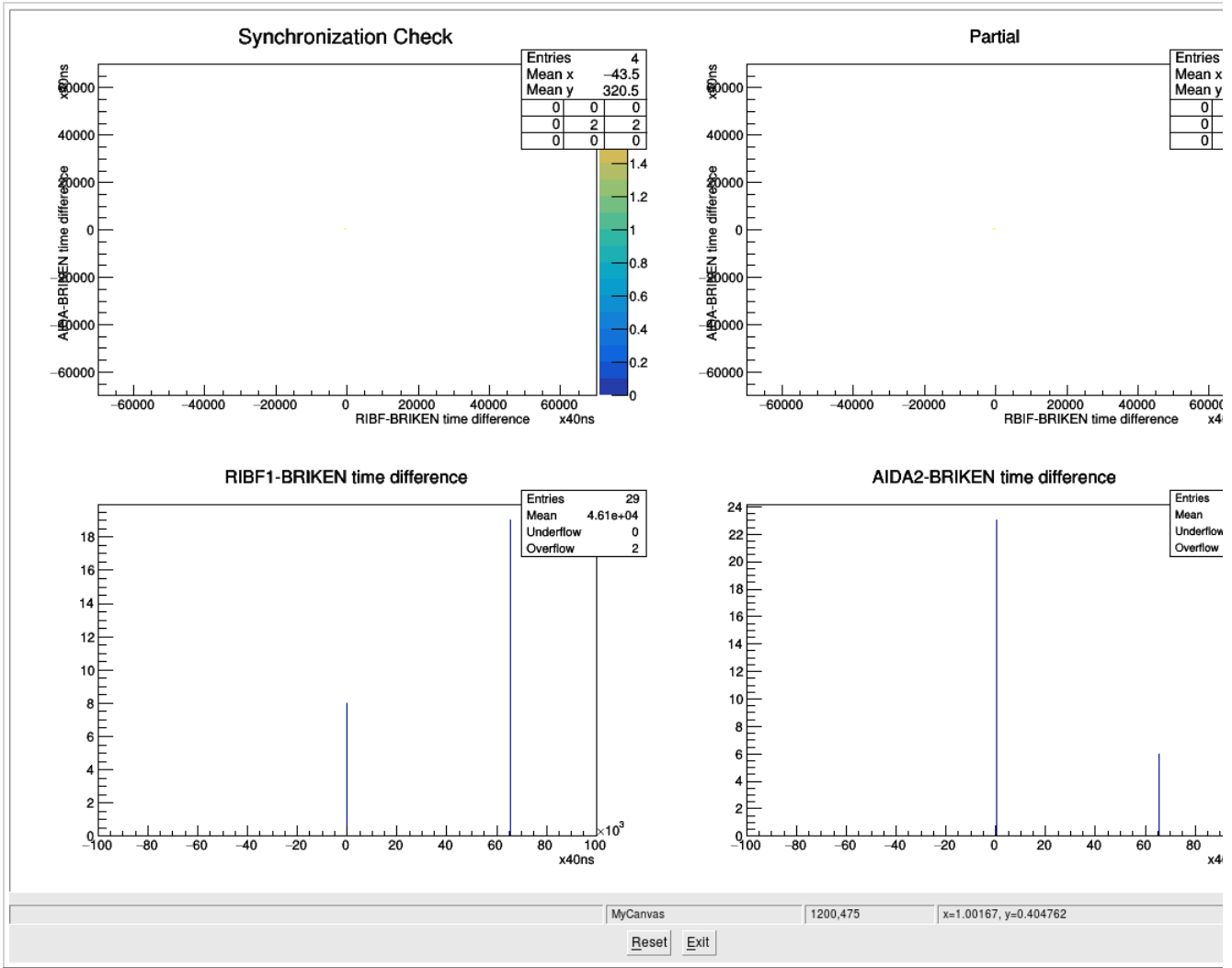
RateSiT = 154.733 cps  
 RateSiB = 125.008 cps

=====  
 Date 2016/12/01  
 BRIKEN run : 197  
 BRIKEN stop : 06:26  
 ROOT online : 161130\_1942\_183\_197\_0626.root  
 AIDA run : R41\_126  
 AIDA stop : 06:26  
 BigRIPS RUN : 1117

Attachment 1: [SyncCheckScreen20161130\\_1940.png](#)



Attachment 2: [SyncCheckScreen20161130\\_2121.png](#)



Attachment 3: [VisualScalerScreen20161130\\_2145.png](#)

File Edit View History Bookmarks Tools Help


Network Camera x

172.27.231.251/CgiStart?page=Single&Resolutic Search

ELOG BRIKEN BRIKEN RIBFDAQ Pag... midas CernBox ELOG RIKEN BigRIPS parameters

Top Single Multi Buffered Image Setup Internet Maintenance Support

LN2\_monitoring



Pan / Tilt Scan

Pan/Tilt Range

Zoom

Focus AF

Preset Program 1 2 3 4 5 6 7 8 -Preset-

Brightness - STD +

Backlight On Off

White Balance Auto

Output

Refresh Rate MPEG-4

Resolution 640x480

Streaming Method Auto

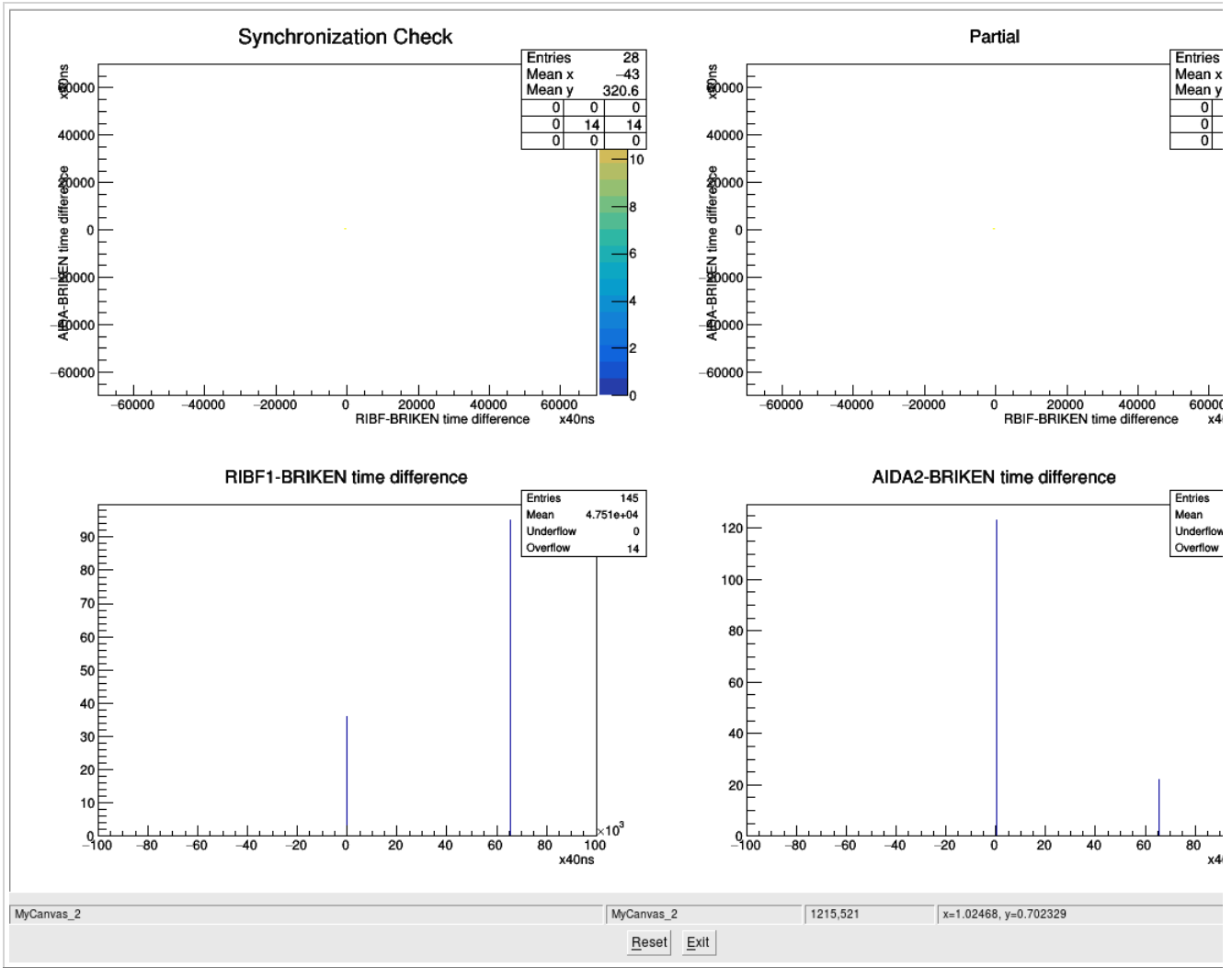
In case of no audio, please click here.  
<http://panasonic.biz/netsys/netwcam/support/info.html>

Running in IPv4 mode.

Attachment 4: [SyncCheckScreen20161130\\_2302.png](#)

[SyncCheckScreen20161130\\_2302.png](#)

Attachment 5: [SyncCheckScreen20161201\\_0046.png](#)



```

232 | Wed Nov 30 16:31:56 2016 | BRIKEN collaboration | run
===== START =====
Date 2016/11/30
Start time : 16:26
BRIKEN run : 180
Daq Conf. File : 161129_1926_Conf_BrikenFull.xlsx
DLT File name : 161130_1626
AIDA run : R39_37
AIDA start : 16:26
BigRIPS run : 1103
BigRIPS start : 16:06:35h

-----
Shifters: DK, TD, VP, 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. In
2. In
3. In

===== COMMENTS =====
16:26 Now all degraders in!
16:49 Synchronization checked (see attached png)
17:16 Rates checking (see attached png)

----- Rates -----
Current File: 161130_1626_1716.root

RateBRIKEN = 1050.32 cps
RateF11R = 1581.44 cps
RateClovers = 674.422 cps
RateVPLT = 65.0127 cps
RateVPLB = 21.915 cps
RateAIDAPL = 164.285 cps
RateSiT = 165.637 cps
RateSiB = 134.638 cps

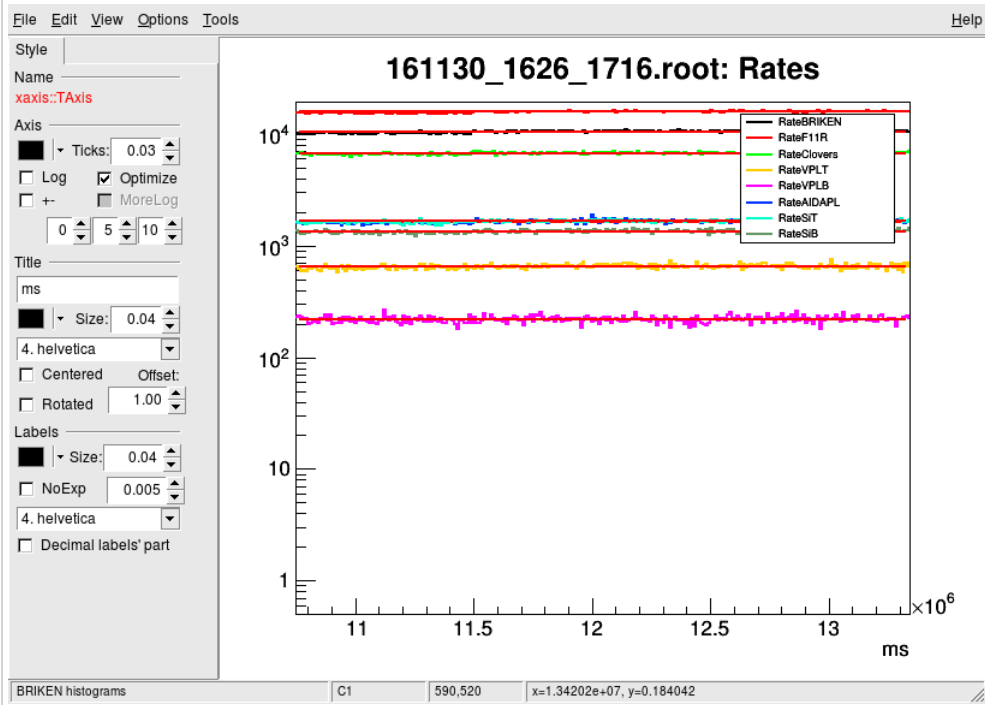
===== END =====
    
```

Date 2016/11/30  
 BRIKEN run : 172  
 BRIKEN stop : 18:21  
 ROOT online : 161130\_1626\_1836.root  
 AIDA run : R39\_60  
 AIDA stop : 18:21  
 BigRIPS RUN : 1105

Attachment 1: [SyncCheckScreen20161130\\_1649.png](#)

SyncCheckScreen20161130\_1649.png

Attachment 2: [SyncCheckScreen20161130\\_1718.png](#)



Attachment 3: [VisualScalersScreen20161130\\_1822.png](#)

File Edit View History Bookmarks Tools Help

Network Camera x +

172.27.231.251/CgiStart?page=Single&Resolutic Search

ELOG BRIKEN BRIKEN RIBFDAQ Pag... midas CernBox ELOG RIKEN BigRIPS parameters

Top Single Multi Buffered Image Setup Internet Maintenance Support

LN2\_monitoring

Pan / Tilt Scan

Pan/Tilt Range

Zoom Focus AF

Preset Program 1 2 3 4 5 6 7 8

Brightness - STD +

Backlight On Off


White Balance Auto

Output

Refresh Rate MPEG-4

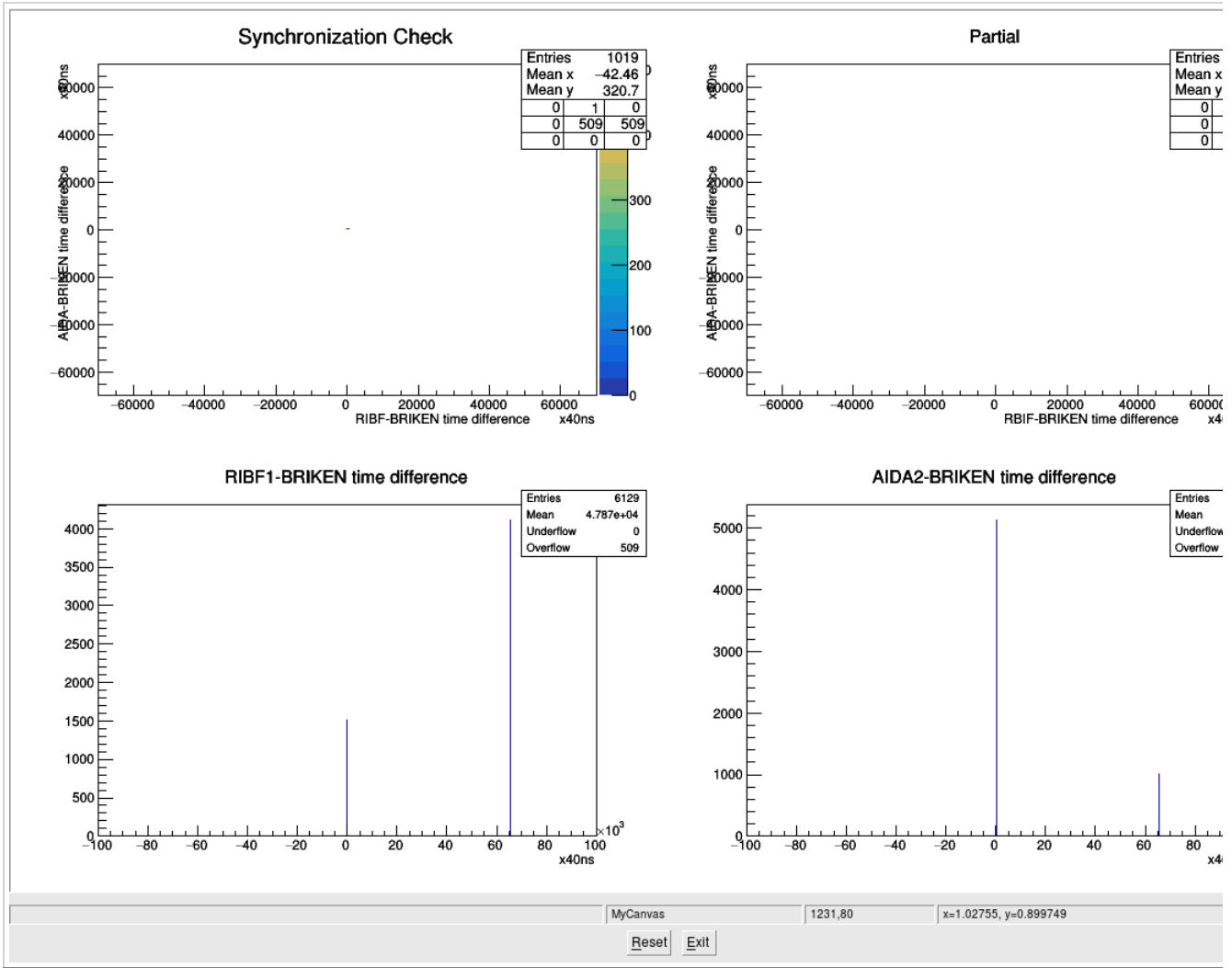
Resolution 640x480

Streaming Method Auto



In case of no audio, please click here.  
<http://panasonic.biz/netsys/networkcam/support/info.html>  
Running in IPv4 mode.

Attachment 4: SyncCheckScreen20161130\_1827.png



```

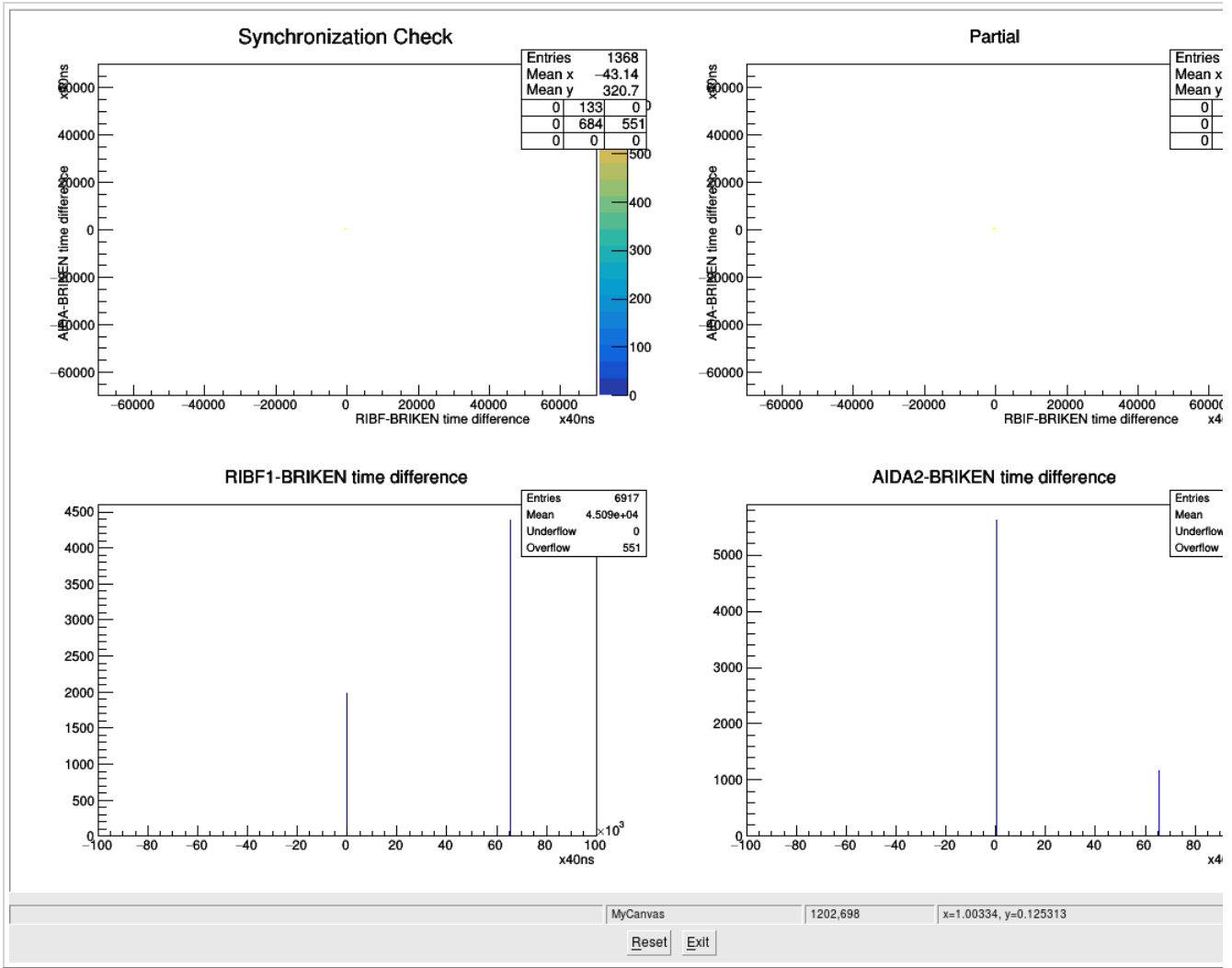
231 Wed Nov 30 15:34:08 2016 BRIKEN collaboration run
===== START =====
Date 2016/11/30
Start time : 15:30
BRIKEN run : 178
Daq Conf. File : 161129_1926_Conf_BrikenFull.xlsx
DLT File name : 161130_1530_178.dlt
AIDA run : R39_25
AIDA start : 15:30
BigRIPS run : 1102
BigRIPS start : 15:24:52

-----
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. In
2. Out!!! (Should bw in but it wasn't)
3. In

===== COMMENTS =====
15:30 As we are implanting too far we increased the thickness of the degrader (All in) for this new run.
16:24 We realized the degrader 2 was not in. File stopped and new run...
Synchronization was as usual (see attached file)
----- Rates -----

===== END =====
Date 2016/11/30
BRIKEN run : 179
BRIKEN stop : 1624
ROOT online : No root file saved
AIDA run : R39_36
AIDA stop : Not stopped
BigRIPS RUN : 1103
    
```

Attachment 1: SyncCheckScreen20161130\_1629.png



230 | Wed Nov 30 13:42:16 2016 | BRIKEN collaboration | run

```

===== START =====
Date 2016/11/30
Start time      : 13:33
BRIKEN run     : 175
Daq Conf. File : 161129_1926_Conf_BrikenFull.xlsx
DLT File name  : 161130_1333
AIDA run      : R39_2
AIDA start    : 13:33
BigRIPS run   : 1099
BigRIPS start : 12:47

-----
Shifters: AT TD
===== 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. IN
2. OUT
3. IN

===== COMMENTS =====
Send Sync Pulse:Wed Nov 30 2016 13:23:02
Send Sync Pulse:Wed Nov 30 2016 13:25:20
Send Sync Pulse:Wed Nov 30 2016 13:29:45
13:25 Variable degrader has been modified.
13:41 Overflow values are observed in SyncMonitor! SyncCheckScreen20161130_1341.png saved
13:50 VisualScalerScreen20161130_1349.png Saved
14:06 Online histogram cleared, not previously done by mistake.
14:12 Beam off for stripper foils change.
14:24 Beam is back.
15:22 Synchronization checked (see attached file). Same spikes as seen normally.
15:24 Check rates (see attached png)
15:27 Stop the run. We'll increase the thickness of the degrader.

----- Rates -----
Current File: 161130_1333_1524.root

RateBRIKEN      = 1054.73 cps
RateF11R        = 1573.97 cps
RateClovers     = 672.207 cps
    
```



```

RateVPLT      = 60.9332 cps
RateVPLB      = 19.8493 cps
RateAIDAPL    = 160.521 cps
RateSiT       = 166.159 cps
RateSiB       = 134.547 cps
    
```

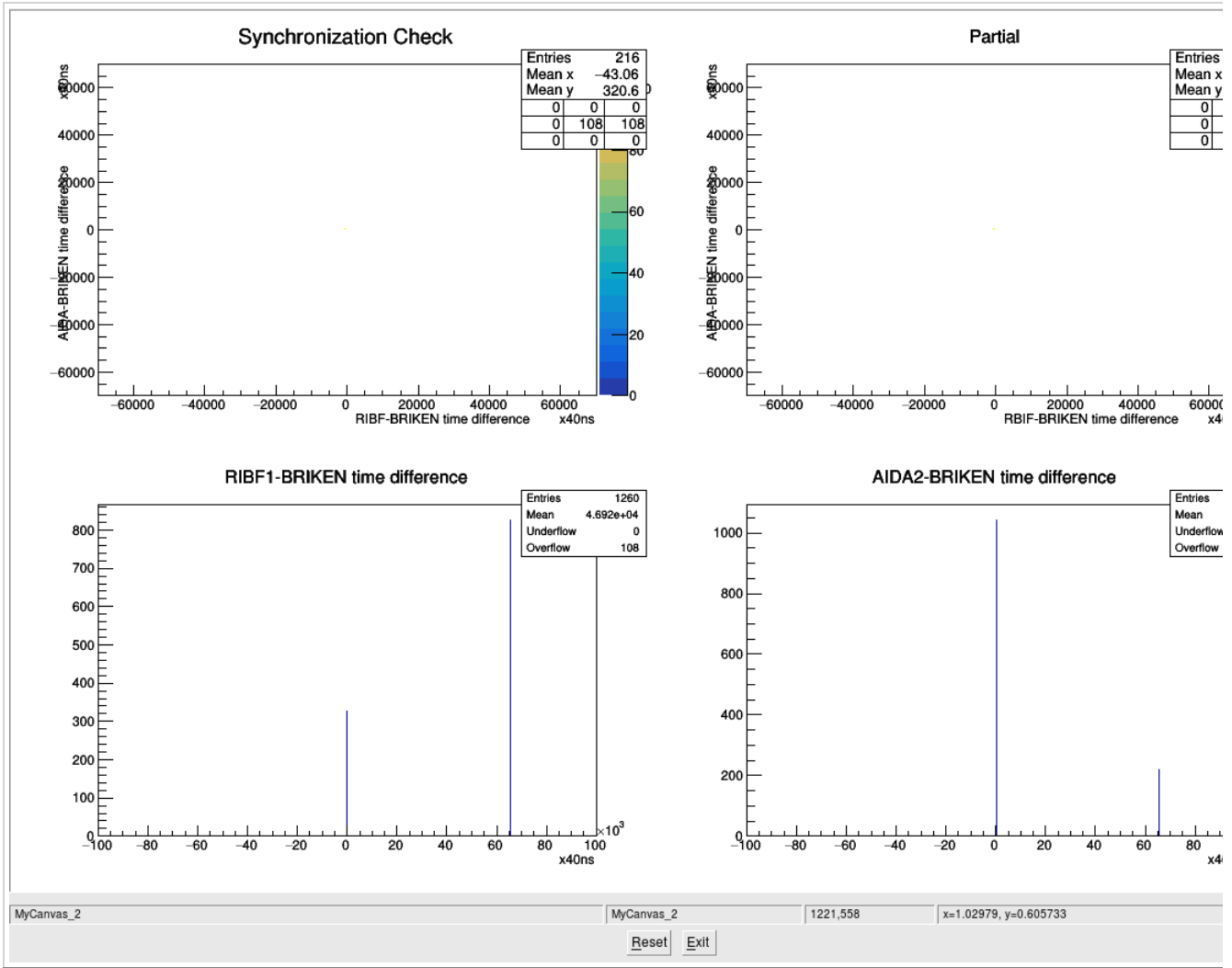
```

=====  END  =====
Date 2016/11/30
BRIKEN run      : 177
BRIKEN stop    : 15:27
ROOT online    : 161130_1333_1524.root
AIDA run       : R39_25
AIDA stop      : 15:27
BigRIPS RUN    : 1102
    
```

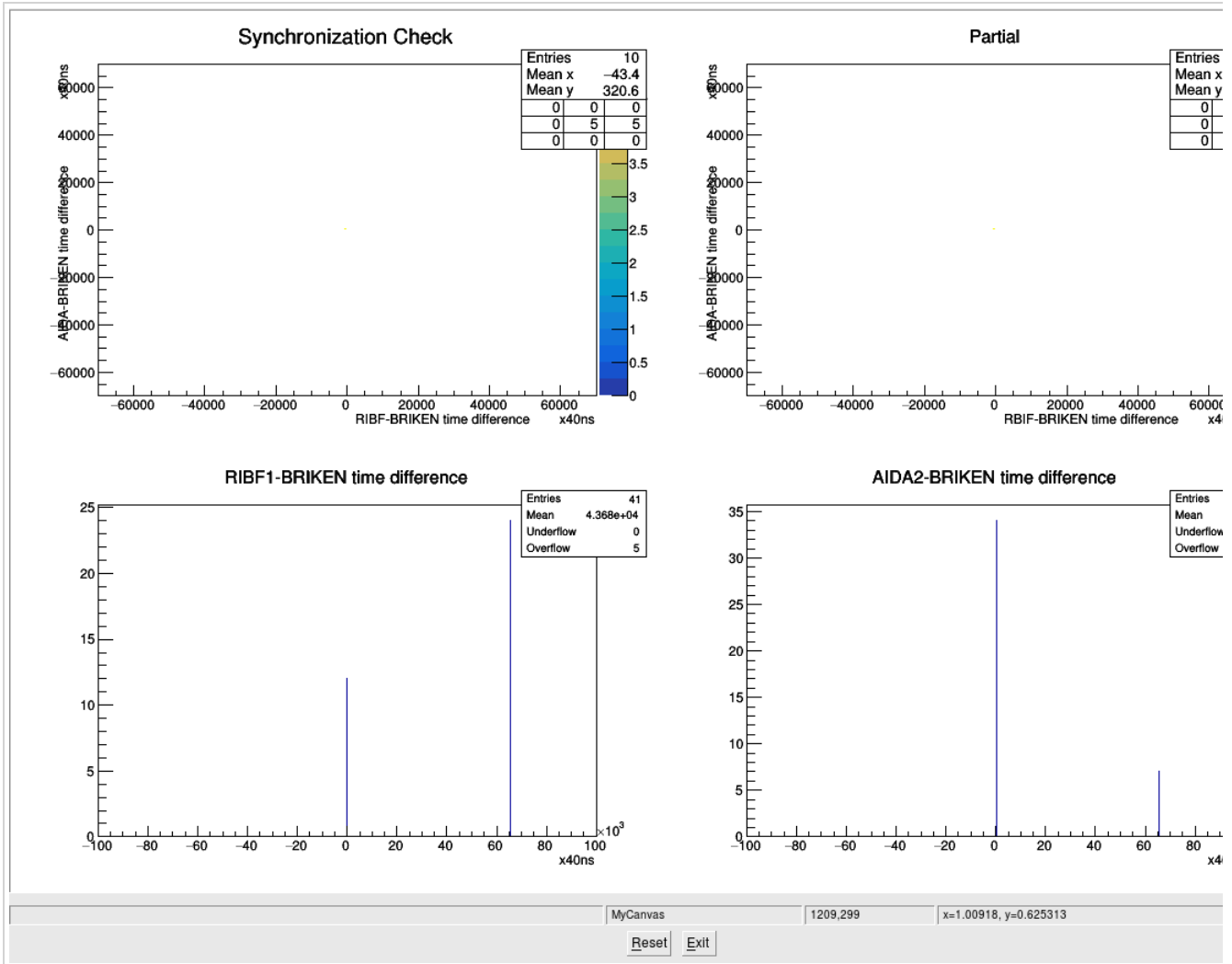
Attachment 1: [VisualScalerScreen20161130\\_1349.png](#)

The screenshot displays a web browser window with a network camera interface. The browser's address bar shows the URL: `172.27.231.251/CgiStart?page=Single&Resolutic`. The page title is "LN2\_monitoring". On the left side, there is a control panel with various settings: "Pan / Tilt" with a "Scan" button and directional arrows; "Pan/Tilt Range" with "Zoom" and "Focus" buttons; "Preset" with a "Program" dropdown and buttons 1-8; "Brightness" with "STD" and "+" buttons; "Backlight" with "On" and "Off" buttons; "White Balance" with an "Auto" button; "Output" with buttons for "Σ J • r" and "7-"; "Refresh Rate" with a "MPEG-4" dropdown; "Resolution" with a "640x480" dropdown; and "Streaming Method" with an "Auto" dropdown. The main video feed shows a rack of electronic equipment. The equipment includes a "VISUAL SCALER" with several red digital readouts (DMMs) displaying values: 0000059, 0000098, 0000070, 0000302, 0000342, 0000188, and 0000005. To the right of the scaler are yellow and purple modules with DMMs showing values like 0669, -53.1, 000.1, and 0002. The interface also includes a "Refresh Rate" dropdown set to "MPEG-4", a "Resolution" dropdown set to "640x480", and a "Streaming Method" dropdown set to "Auto". Below the video feed, there is a note: "In case of no audio, please click here." followed by a link: <http://panasonic.biz/netsys/networkcam/support/info.html>. Below the link, it says "Running in IPv4 mode."

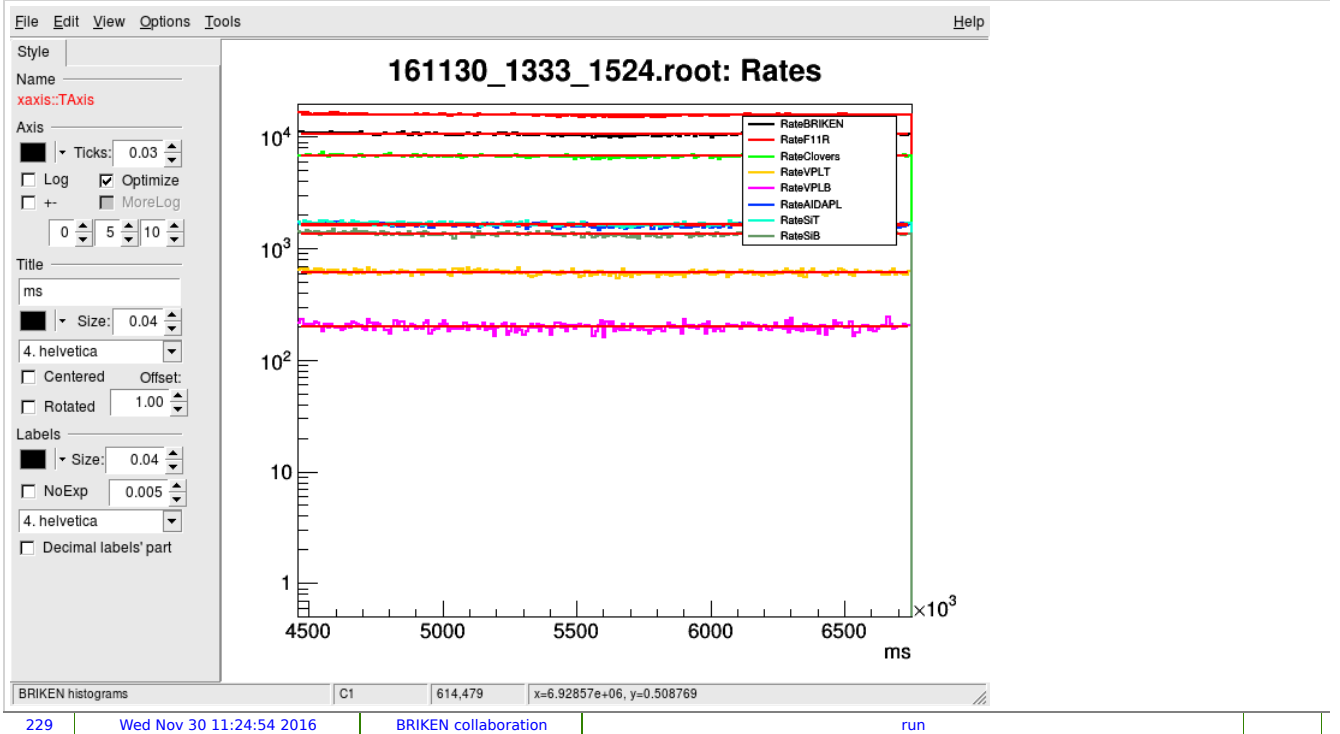
Attachment 2: [SyncCheckScreen20161130\\_1341.png](#)



Attachment 3: [SyncCheckScreen20161130\\_1521.png](#)



Attachment 4: SyncCheckScreen20161130\_1526.png



```

===== START =====
Date 2016/11/30
Start time   : 11:20
BRIKEN run   : 172
Daq Conf. File : 161129_1926_Conf_BrikenFull.xlsx
DLT File name : 161130_1120_172.dlt
AIDA run     : R38_14
    
```

```
AIDA start      : 11:20
BigRIPS run     : 1097
BigRIPS start   : 10:38:47h
```

```
-----
Shifters: AA, TD, VP, RCF, ATS
```

```
===== 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 =====
```

```
11:20 After many checks of synchronization at 11:10 we could see the spills with SyncCheck script.
```

```
11:43 Synchronization checked (see attached figure)
```

```
11:59 High counting rates are observed after the beam stop (~ x10 higher). It should be related to the change of the target from this morning. VisualScalerScreen20161130_1158.png saved!
```

```
12:30 Rates checked (see attached png)
```

```
13:20 Run is stopped to modify degrader configuration.
```

```
13:25 Synchronization should be checked, overflow values are observed.
```

```
----- Rates -----
```

```
Current File: 161130_1120_1230.root
```

```
RateBRIKEN      = 998.34 cps
RateF11R        = 1480.97 cps
RateClovers     = 631.299 cps
RateVPLT        = 55.4698 cps
RateVPLB        = 18.558 cps
RateAIDAPL      = 148.932 cps
RateSiT         = 156.575 cps
RateSiB         = 126.66 cps
```

```
===== END =====
```

```
Date 2016/11/30
```

```
BRIKEN run      : 174
```

```
BRIKEN stop     : 13:20
```

```
ROOT online    : 161130_1120_1230.root, 161130_1120_1320.root
```

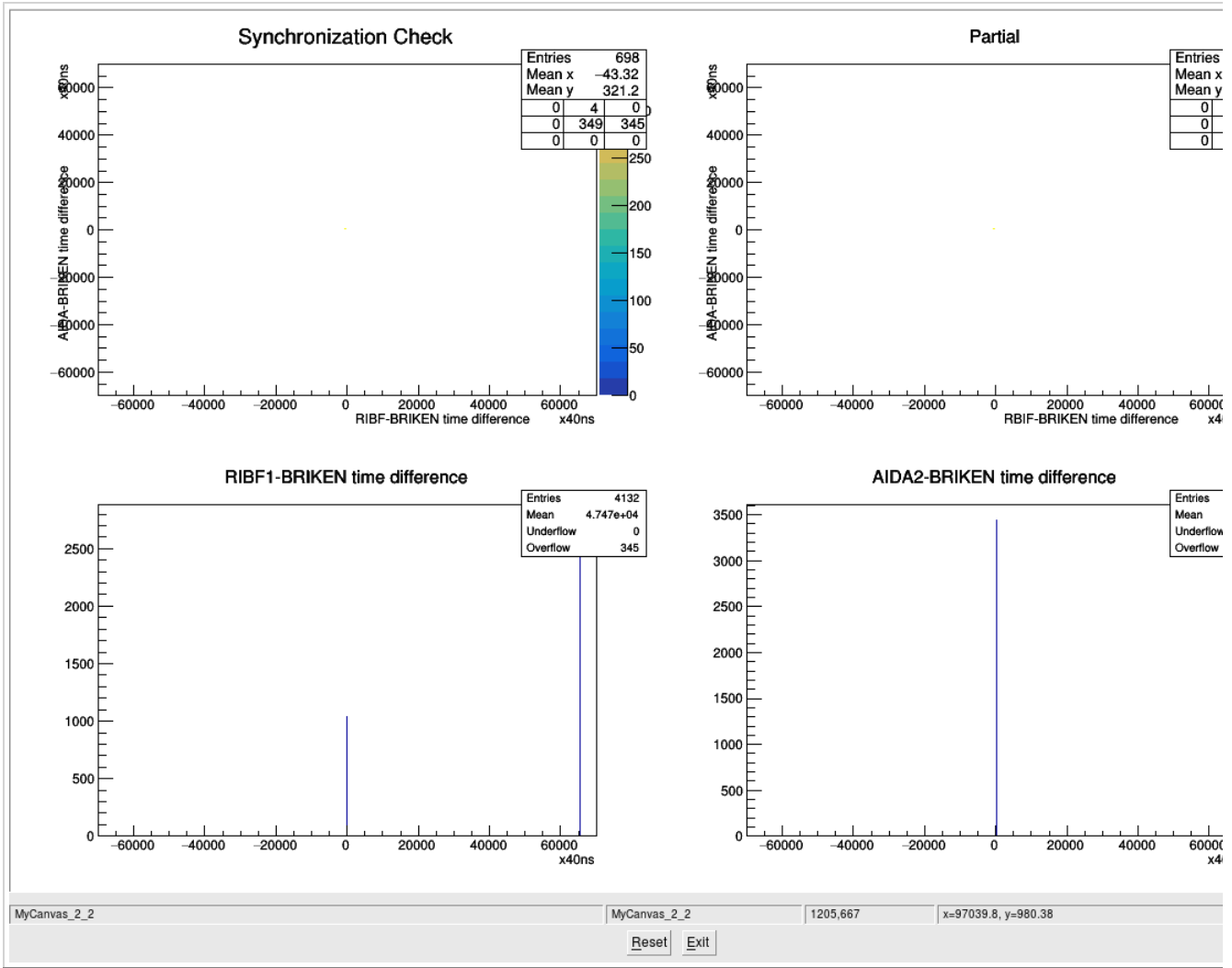
```
AIDA run       : R38_35
```

```
AIDA stop      : 13:20
```

```
BigRIPS RUN    : 1099
```

---

Attachment 1: [SyncCheckScreen20161130\\_1143.png](#)



Attachment 2: [VisualScalerScreen20161130\\_1158.png](#)

File Edit View History Bookmarks Tools Help

Network Camera

172.27.231.251/CgiStart?page=Single&Resolutic

ELOG BRIKEN BRIKEN RIBFDAQ Pag... midas CernBox ELOG RIKEN BigRIPS parameters

Top Single Multi Buffered Image Setup Internet Maintenance Support

LN2\_monitoring

Pan / Tilt

Scan

Pan/Tilt Range

Zoom

Focus

AF

Preset

Program

1 2 3 4

5 6 7 8

-Preset-

Brightness

STD

Backlight

On Off

White Balance

Auto

Output

Refresh Rate

MPEG-4

Resolution

640x480

Streaming Method

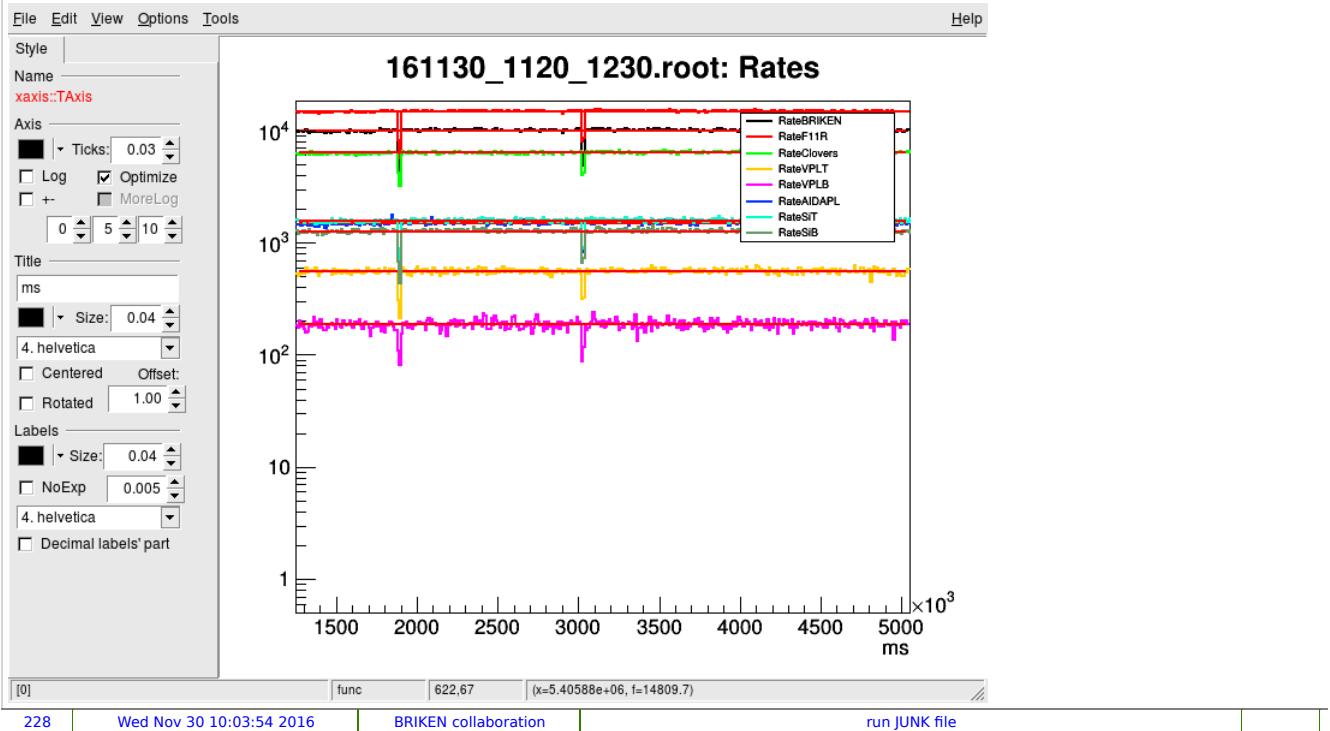
Auto

In case of no audio, please click here.

<http://panasonic.biz/netsys/networkcam/support/info.html>

Running in IPv4 mode.

Attachment 3: SyncCheckScreen20161130\_1233.png



```

===== START =====
Date 2016/11/30
Start time : 10:04
BRIKEN run : 171
Daq Conf. File : 161129_1926_Conf_BrikenFull.xlsx
DLT File name : 161130_1004_171.dlt
AIDA run : NO
AIDA start : NO
BigRIPS run : 1096
BigRIPS start : 09:36:52h
    
```

```

-----
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

===== COMMENTS =====
10:04 Start run together with AIDA with BIGRIB run 1096 (Beam back after STQ2 problem fixed).
10:09 We sent several Sync pulses in order to synchronize with AIDA.
10:14 Still synchronization problems. Stop run and we restart the sync with AIDA/BigRIPS according to the
instructions.

----- Rates -----

===== END =====
Date 2016/11/30
BRIKEN run : 171
BRIKEN stop : 10:14
ROOT online : 161130_1004_1014.root
AIDA run : NO
AIDA stop : NO
BigRIPS RUN : 1096

```

227	Wed Nov 30 09:49:17 2016	BRIKEN collaboration	run JUNK file
-----	--------------------------	----------------------	---------------

```

===== START =====
Date 2016/11/30
Start time : 09:42
BRIKEN run : 170
Daq Conf. File : 161129_1926_Conf_BrikenFull.xlsx
DLT File name : 161130_0942_170.dlt
AIDA run : NO
AIDA start : NO
BigRIPS run : 1096
BigRIPS start : 09:36:52h

-----
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

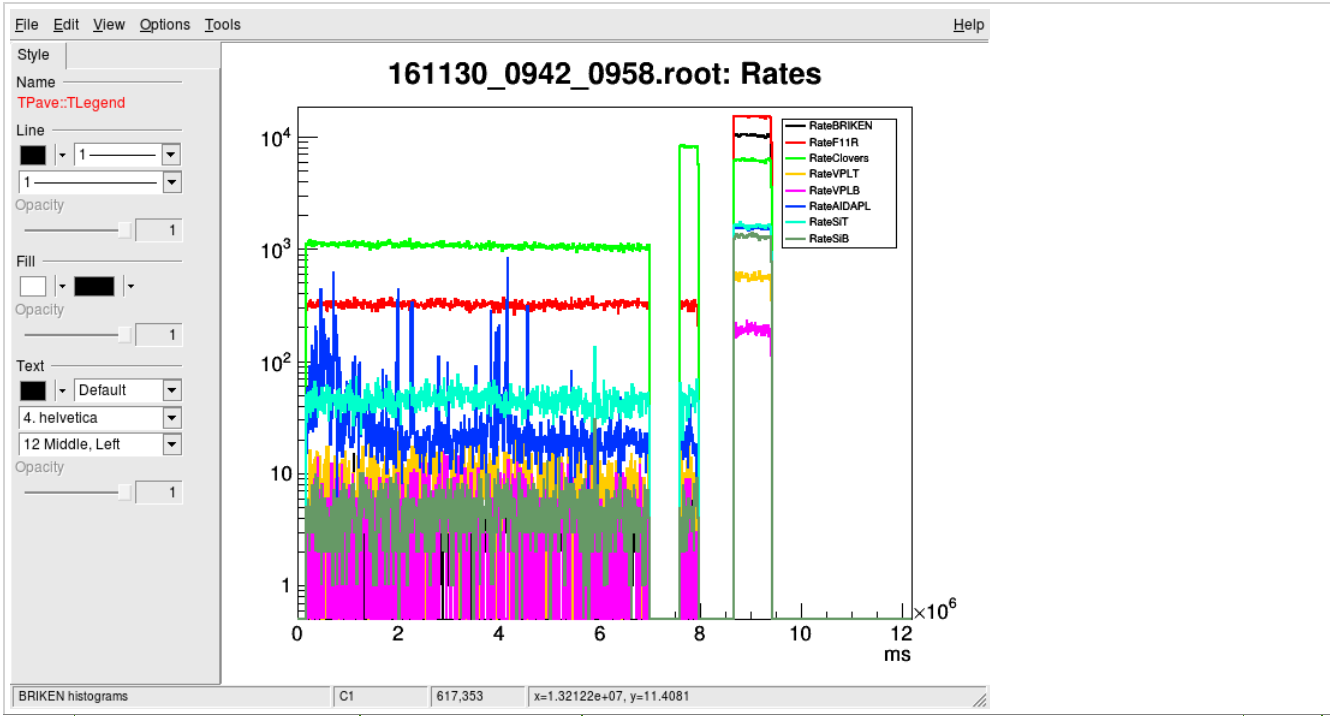
===== COMMENTS =====
09:45 Beam back after STQ2 problem fixed. We are able to measure again.
Nobody from AIDA is here at the moment, Phong is trying to start a run.
09:55 Tom arrived and start AIDA run
09:58 Run stopped to start with AIDA and check the synchronization
(histograms not clear from previous root online with 152Eu as shown in attached screenshot of rates. Not useful
run).

----- Rates -----

===== END =====
Date 2016/11/30
BRIKEN run : 170
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
-----	--------------------------	----------------------	-----

```

===== 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
-----	--------------------------	----------------------	-----

```

===== 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

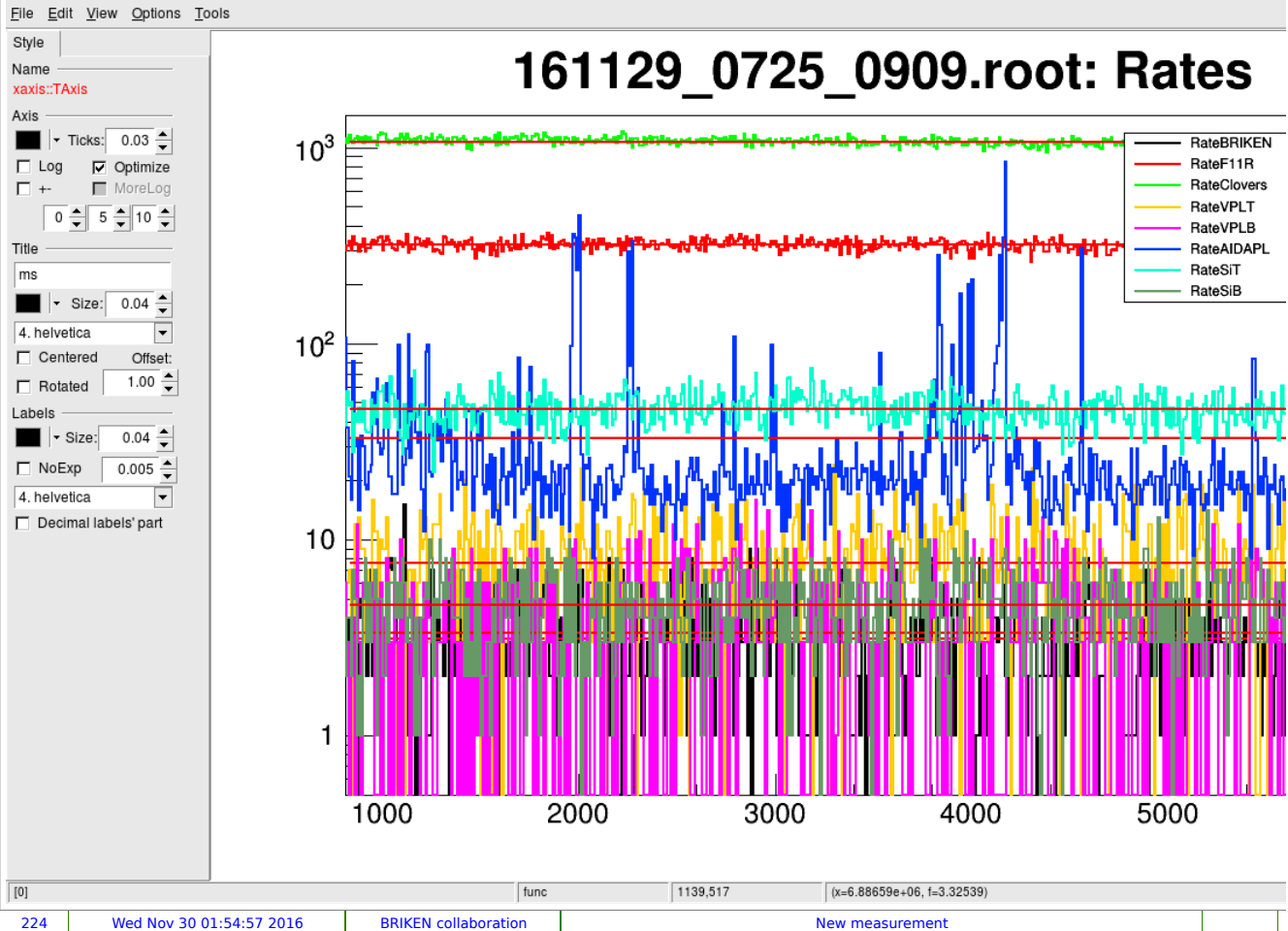
RateBRIKEN    = 0.312064 cps
RateF11R      = 31.9559 cps
RateClovers   = 106.656 cps
RateVPLT      = 0.760326 cps
RateVPLB      = 0.332539 cps
RateAIDAPL    = 3.27038 cps
    
```



RateSiT = 4.61188 cps  
 RateSiB = 0.465082 cps

=====  
 END  
 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](#)



[0] func 1139,517 (x=6.88659e+06, f=3.32539)

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

=====  
 START  
 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  
 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.

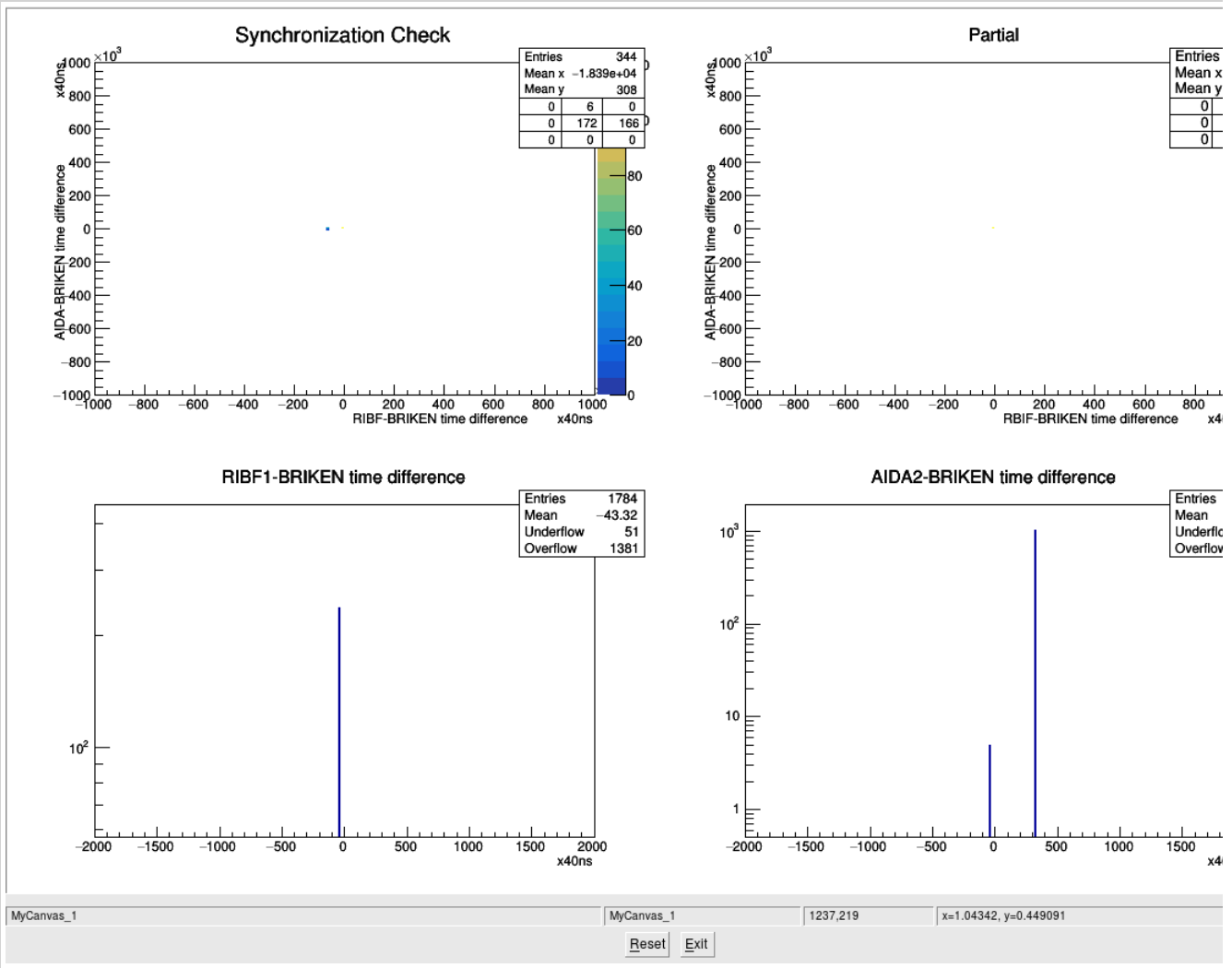
```
02:39 Beam off
03:35 Beam on. The neutron rate increased dramatically!!!!!!!!!!!!
03:52 Online saved 161130_0146_164_0352.root
----- Rates (3:53) -----
RateBRIKEN      = 1048.99 cps
RateF11R        = 1552.92 cps
RateClovers     = 644.567 cps
RateVPLT        = 58.1526 cps
RateVPLB        = 19.275 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).

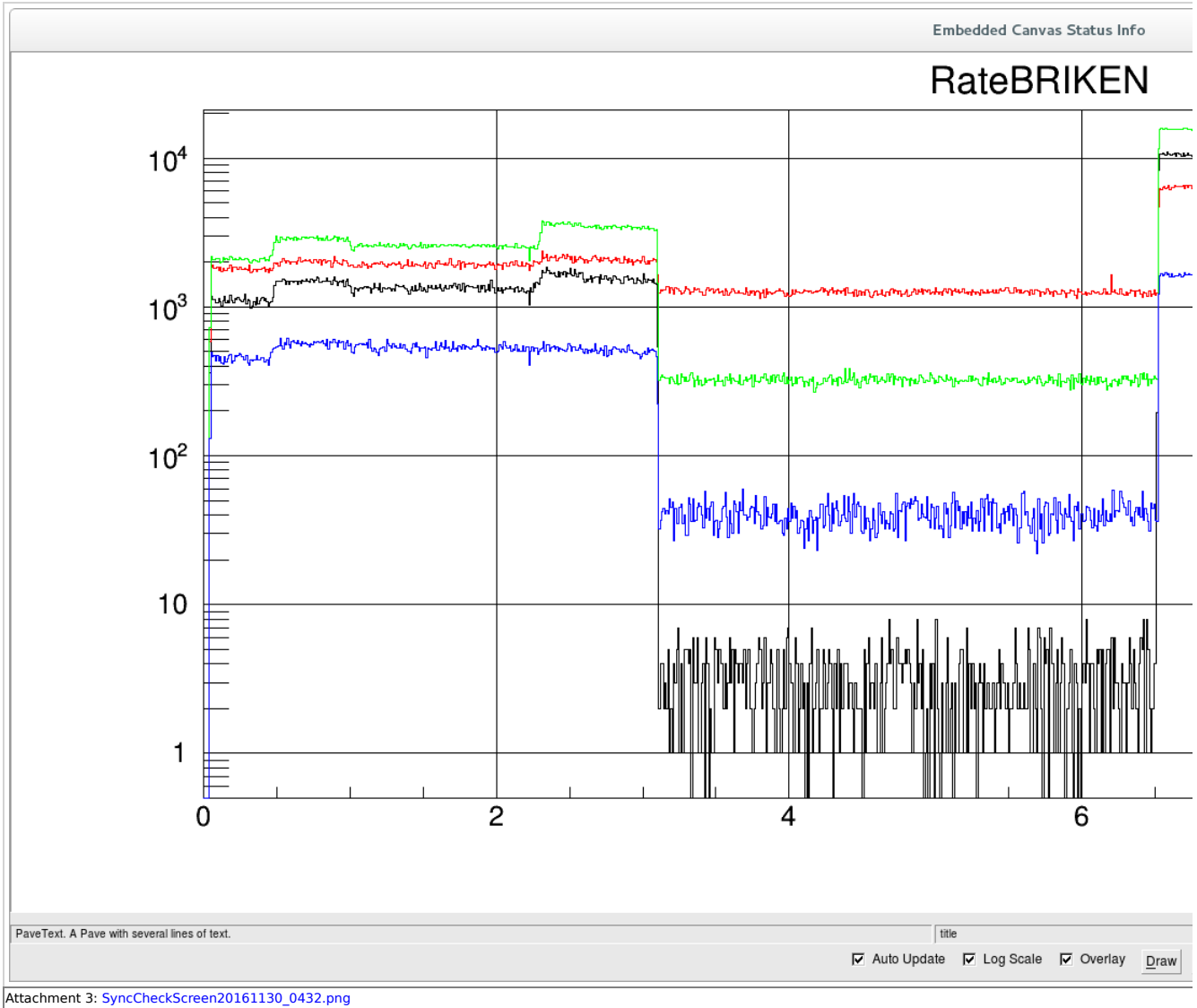
```
04:32 Saved SyncCheckScreen20161130_0432.png
04:35 Beam Off
04:51 Online Saved 161130_0146_164_0451.root, it seems that the gamma-like component in rings 1 and 2
      has increased a lot!
05:59 Synchronization checked! Saved SyncCheckScreen20161130_0558.png
06:22 Acquisition stopped. There are problems with the accelerator facility, one magnet has broken. The beam
      stop can be hours or maybe one day... :|
```

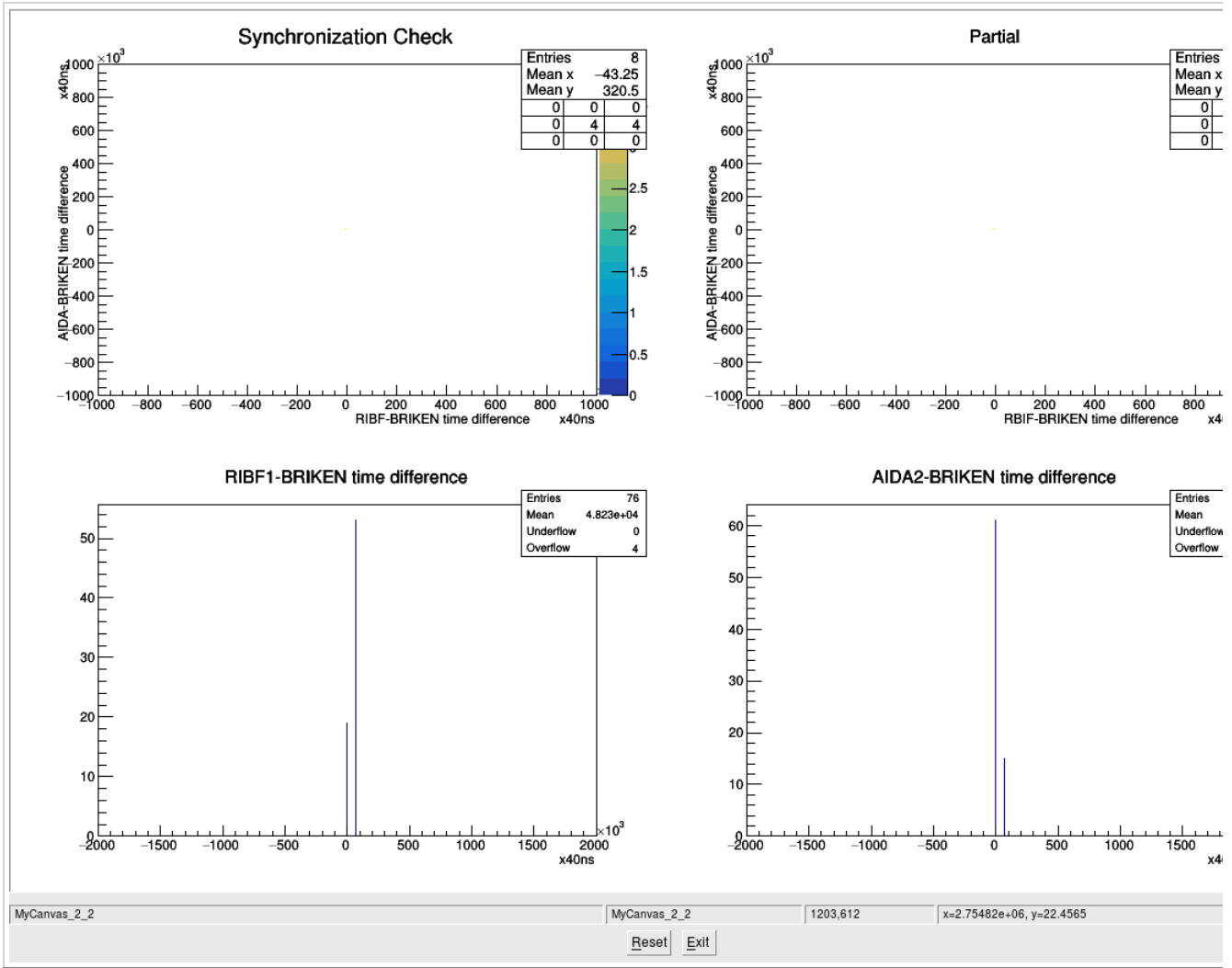
```
===== END =====
Date 2016/11/30
BRIKEN run      : 166
BRIKEN stop     : 06:19
ROOT online    : 161130_0146_164_0352.root, 161130_0146_164_0451.root, 161130_0146_164_0619.root
AIDA run       : R36_55
AIDA stop      : 06:12
BigRIPS RUN    : 1095 (Stopped at 04:35 because of BigRips error)
```

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



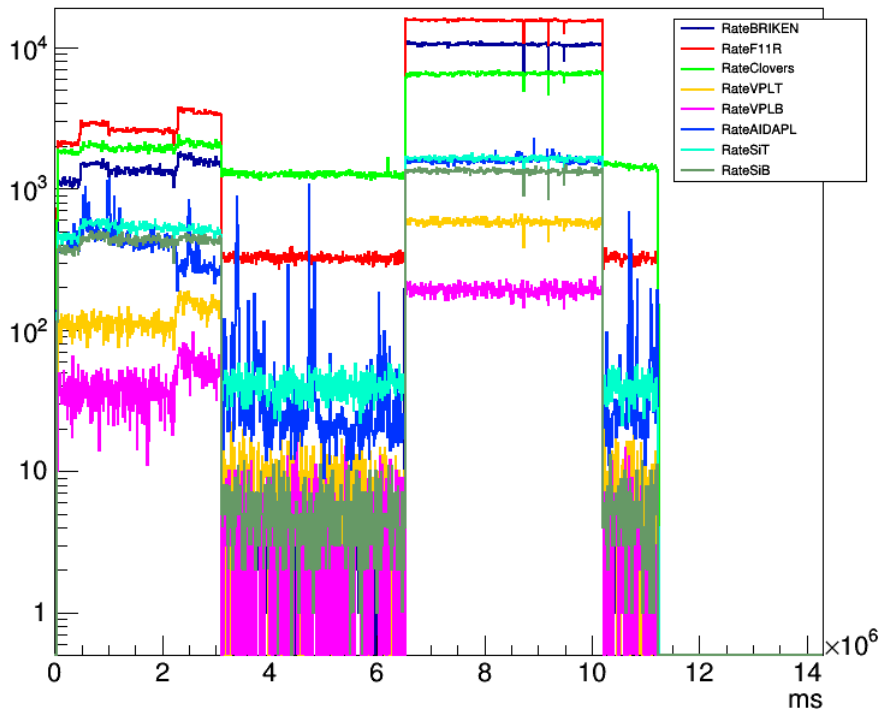
Attachment 2: [161130\\_0407rates.png](#)





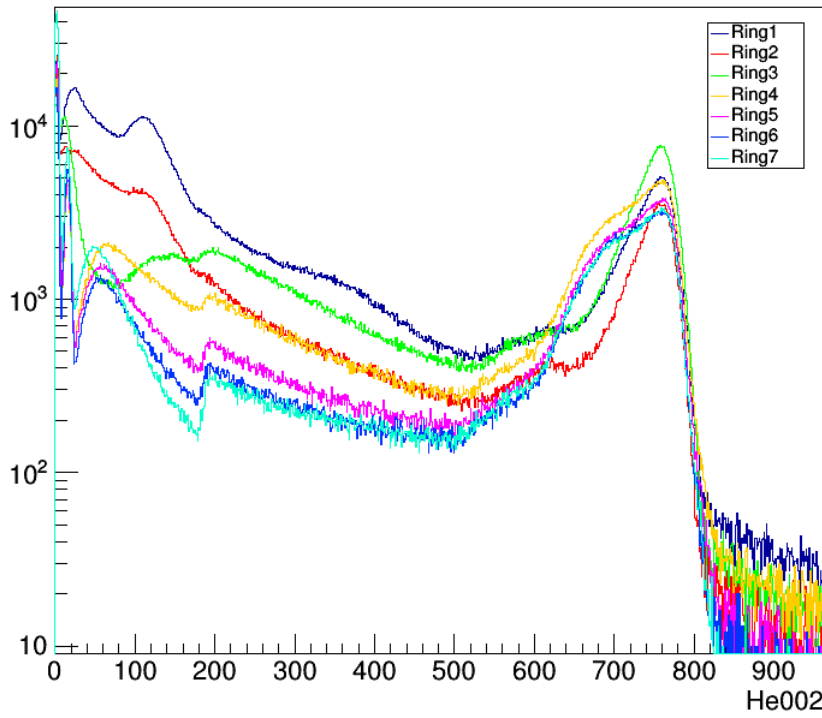
Attachment 4: 161129\_0146\_164\_0451\_Rates.png

### 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](#)

#### Synchronization Check

Entries	0
Mean x	0
Mean y	0
	0
	0
	0

#### Partial

Entries	0
Mean x	0
Mean y	0
	0
	0
	0

#### RIBF1-BRIKEN time difference

Entries	97
Mean	6.554e+04
Underflow	0
Overflow	0

#### AIDA2-BRIKEN time difference

Entries	
Mean	
Underflow	
Overflow	

MyCanvas      1198,648      x=1, y=0.18797

223	Wed Nov 30 00:46:34 2016	BRIKEN collaboration	Gamma calibration
-----	--------------------------	----------------------	-------------------

```

===== 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
-----	--------------------------	----------------------	-----

```

===== 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

```

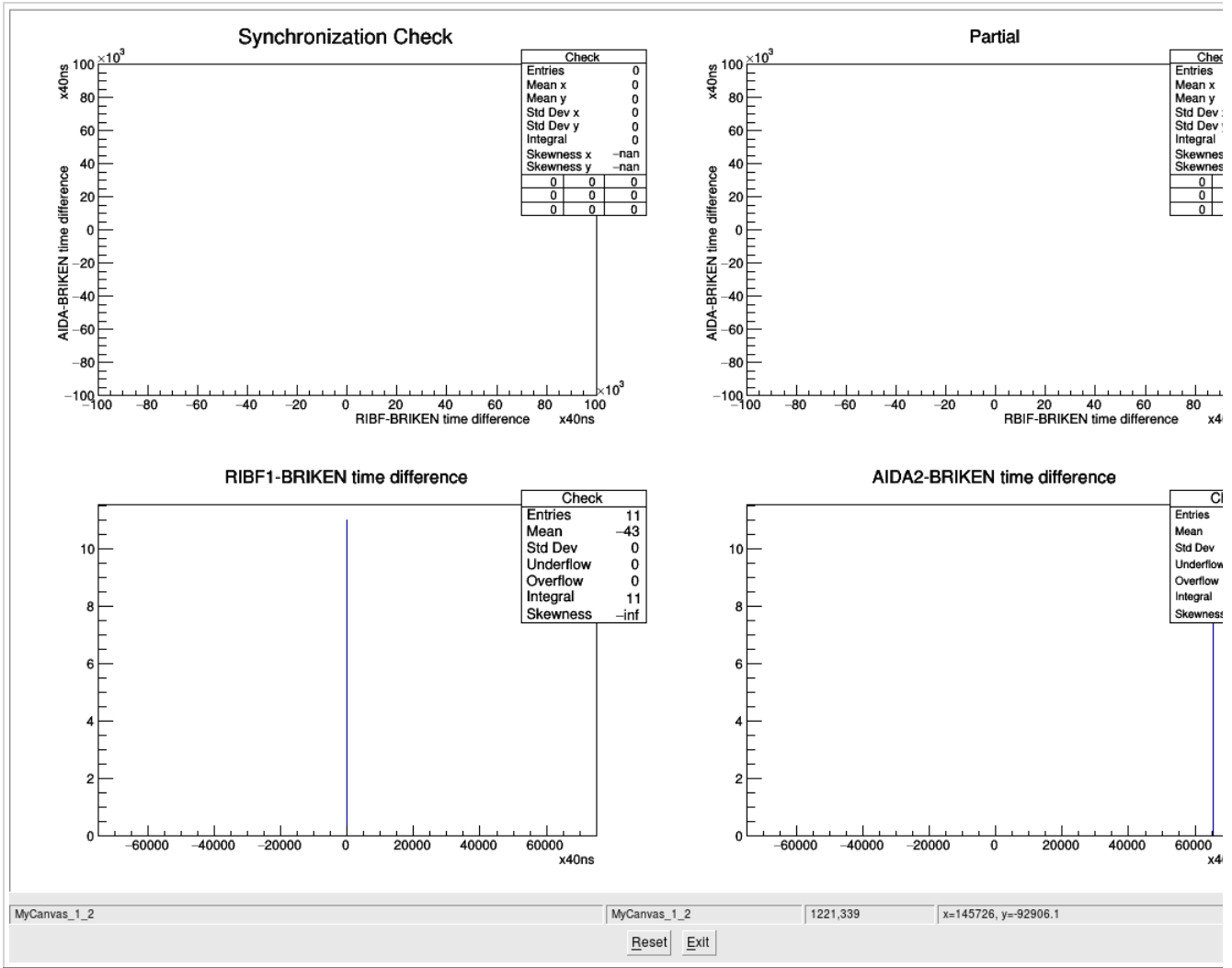
===== END =====

```

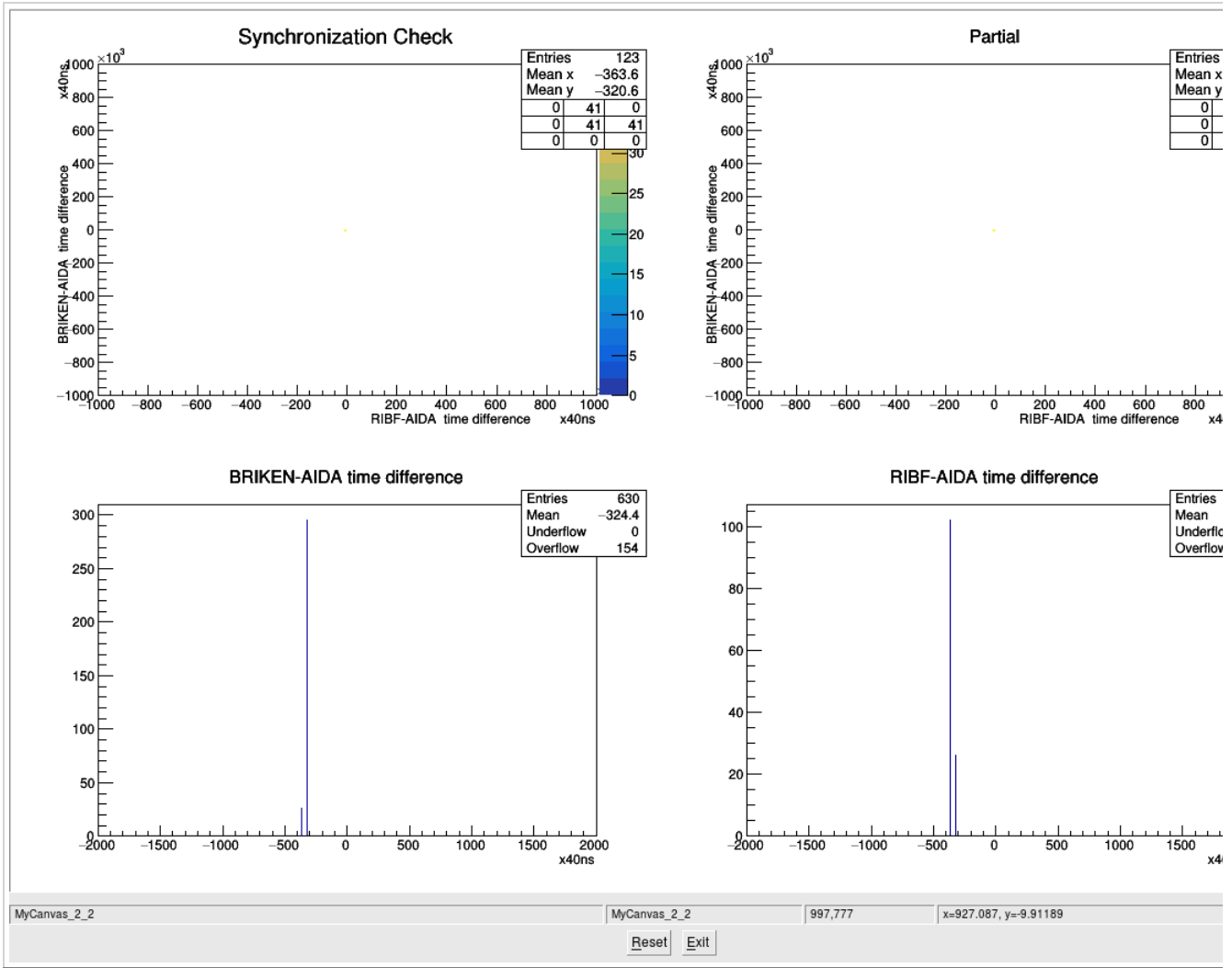
Date 2016/11/30
BRIKEN run   : 159
BRIKEN stop   : 00:11
ROOT online  : 161129_1951_155_159_0011.root
AIDA run     : 35_62
AIDA stop    : 00:11
BigRIPS RUN  : 1088

```

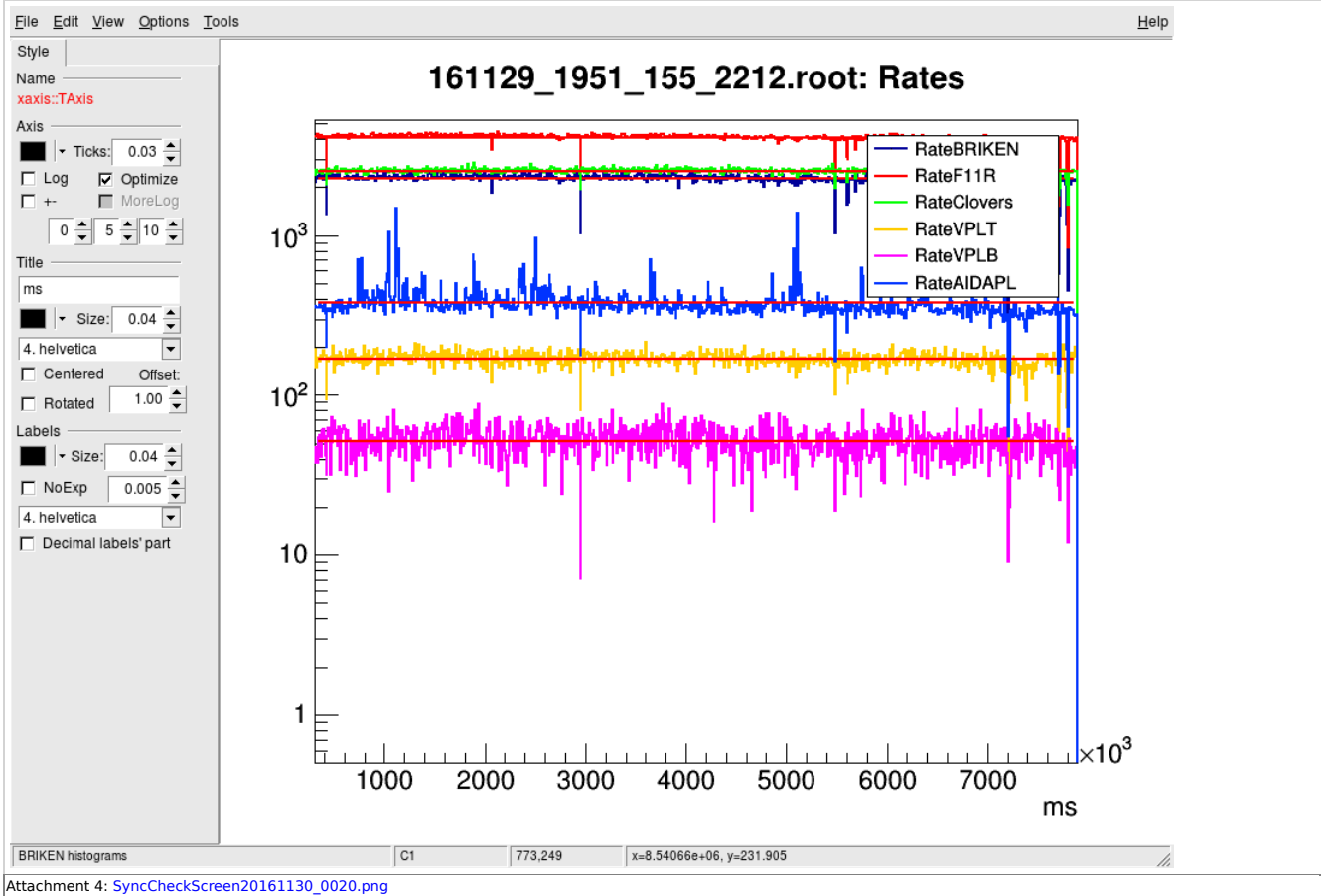
Attachment 1: [SyncCheckScreen20161129\\_1950.png](#)



Attachment 2: SyncCheckScreen20161129\_2206.png



Attachment 3: SyncCheckScreen20161129\_2228.png



Attachment 4: SyncCheckScreen20161130\_0020.png



