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[BigRIPS](#) | [User Experiments](#) | [MUST2 2010](#) | [CAITEN 2010](#) | [Isospin Diffusion 2013](#) | [Transmutation Spring 2014](#) | [Transmutation Spring 2015](#)  
[Transmutation Autumn 2015](#) | [Transmutation Autumn 2016](#) | [RIBF123](#)

RIBF123, all entries

Logged in as "BRIKEN collaboration"

ELOG

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-- All entries --

-- Author --

-- Subject --

-- Subtext --

242 Entries

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ID	Date	Author	Subject	Type	Category	RUN Number	Beam	Energy	Target
248	Sat Dec 3 15:24:56 2016	BRIKEN collaboration	Neutron calibration			244			

```

===== START =====
Date 2016/12/03
Start time      : 14:38
BRIKEN run      : 244
Daq Conf. File  : 161201_1310_Conf_BrikenFull.xlsx
DLT File name   : 161203_1438_252Cf
  
```

```

===== COMMENTS =====
14:38 Time stamp was reset
252Cf source, placed at 22.5cm from the entrance.
  
```

```

===== END =====
Date 2016/12/03
BRIKEN run      :
BRIKEN stop     :
ROOT online     :
  
```

247	Sat Dec 3 15:23:32 2016	BRIKEN collaboration	Neutron calibration			237			
-----	-------------------------	----------------------	---------------------	--	--	-----	--	--	--

```

===== START =====
Date 2016/12/03
Start time      : 11:25
BRIKEN run      : 237
Daq Conf. File  : 161201_1310_Conf_BrikenFull.xlsx
DLT File name   : 161203_1125_252Cf
  
```

```

===== COMMENTS =====
252Cf source, placed at 22.5cm from the entrance.
  
```

WARNING: ADC WERE NOT SYNCHRONIZED!!! YOU MUST NOT USE THE STAMPS

```

===== END =====
Date 2016/12/03
BRIKEN run      : 245
BRIKEN stop     : 14:38
ROOT online     : 161203_1125_237_1438_Cf252.root
  
```

246	Fri Dec 2 18:17:35 2016	BRIKEN collaboration	Background measurement		RUN   BRIKEN	235	Background		
-----	-------------------------	----------------------	------------------------	--	--------------	-----	------------	--	--

```

===== START =====
Date 2016/12/02
Start time      : 14:35
BRIKEN run      : 235
Daq Conf. File  : 161129_1926_Conf_BrikenFull.xlsx
DLT File name   :
  
```

```

===== COMMENTS =====
The "real" background covered only the first 2 hours. After that, the zero degree tuning started.
  
```

```

===== END =====
Date 2016/12/02
BRIKEN run      : 236
BRIKEN stop     : 19:07
ROOT online     : 161202_1435_236_bck_1907_236.root
  
```

245	Fri Dec 2 13:48:56 2016	BRIKEN collaboration	Gamma calibration		Detector   BRIKEN	231			
-----	-------------------------	----------------------	-------------------	--	-------------------	-----	--	--	--

```

===== START =====
Date 2016/12/02
Start time      : 10:30
BRIKEN run      : 231
Daq Conf. File  : 161129_1926_Conf_BrikenFull.xlsx
DLT File name   : 161202_1030_152Eu_137CsSi
  
```

```

===== COMMENTS =====
137Cs gamma source placed next to Silicon detector.
  
```

12/03/16

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

#2

137Cs gamma source placed next to Silicon detector.  
152Eu gamma source placed among the clovers (centered, on the "floor" of the hole).

=====  
Date 2016/12/02  
BRIKEN run : 234  
BRIKEN stop : 13:46  
ROOT online : 161202\_1030\_152Eu\_137CsSi\_231\_1346\_234.root

=====  
Date 2016/12/02  
BRIKEN run : 234  
BRIKEN stop : 13:46  
ROOT online : 161202\_1030\_152Eu\_137CsSi\_231\_1346\_234.root

244	Fri Dec 2 10:38:08 2016	BRIKEN collaboration	Gamma calibration			230			
-----	-------------------------	----------------------	-------------------	--	--	-----	--	--	--

=====  
Date 2016/12/02  
Start time : 10:08  
BRIKEN run : 230  
Daq Conf. File : 161129\_1926\_Conf\_BrikenFull.xlsx  
DLT File name : 161202\_1008

=====  
137Cs gamma source placed next to AIDA Plastic.  
152Eu gamma source placed among the clovers.

=====  
Date 2016/12/02  
BRIKEN run : 230  
BRIKEN stop : 10:17  
ROOT online : 161202\_1008\_152Eu\_137CsVPLT\_230\_1017\_230.root

243	Fri Dec 2 09:51:32 2016	BRIKEN collaboration	Gamma calibration		Detector   BRIKEN	229	137Cs + 152Eu		
-----	-------------------------	----------------------	-------------------	--	-------------------	-----	---------------	--	--

=====  
Date 2016/12/02  
Start time : 09:35  
BRIKEN run : 229  
Daq Conf. File : 161129\_1926\_Conf\_BrikenFull.xlsx  
DLT File name : 161202\_0935

=====  
137Cs gamma source placed next to AIDA Plastic.  
152Eu gamma source placed among the clovers.

=====  
Date 2016/12/02  
BRIKEN run : 229  
BRIKEN stop : 09:50  
ROOT online : 161202\_0935\_152Eu\_137Cs\_229\_0950\_229.root

242	Fri Dec 2 09:10:46 2016	BRIKEN collaboration	run		RUN   BRIKEN	227	40Mg		
-----	-------------------------	----------------------	-----	--	--------------	-----	------	--	--

=====  
Date 2016/12/02  
Start time : 07:46  
BRIKEN run : 227  
Daq Conf. File : 161129\_1926\_Conf\_BrikenFull.xlsx  
DLT File name : 161202\_0746  
AIDA run : R45\_0  
AIDA start : 07:43  
BigRIPS run : 1144  
BigRIPS start : 07:02

-----  
Shifters:  
=====  
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

=====  
Saved ---> SyncCheckScreen20161202\_0745.png

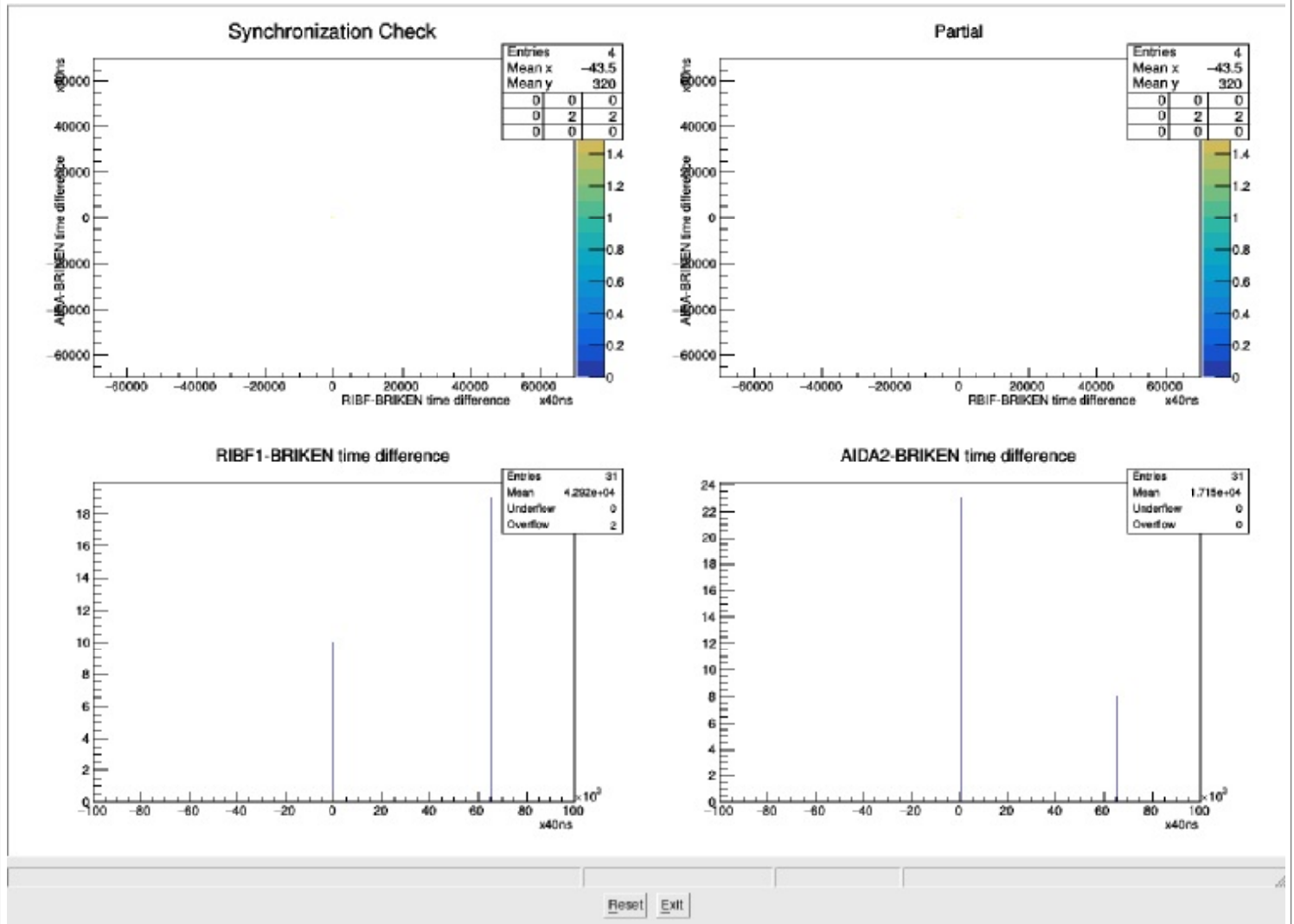
----- Rates -----  
RateBRIKEN = 866.668 cps  
RateF11R = 1305.67 cps  
RateClovers = 593.099 cps

12/03/16 <http://ribf-exp.riken.jp/elog/RIBF123/page?mode=full> #3

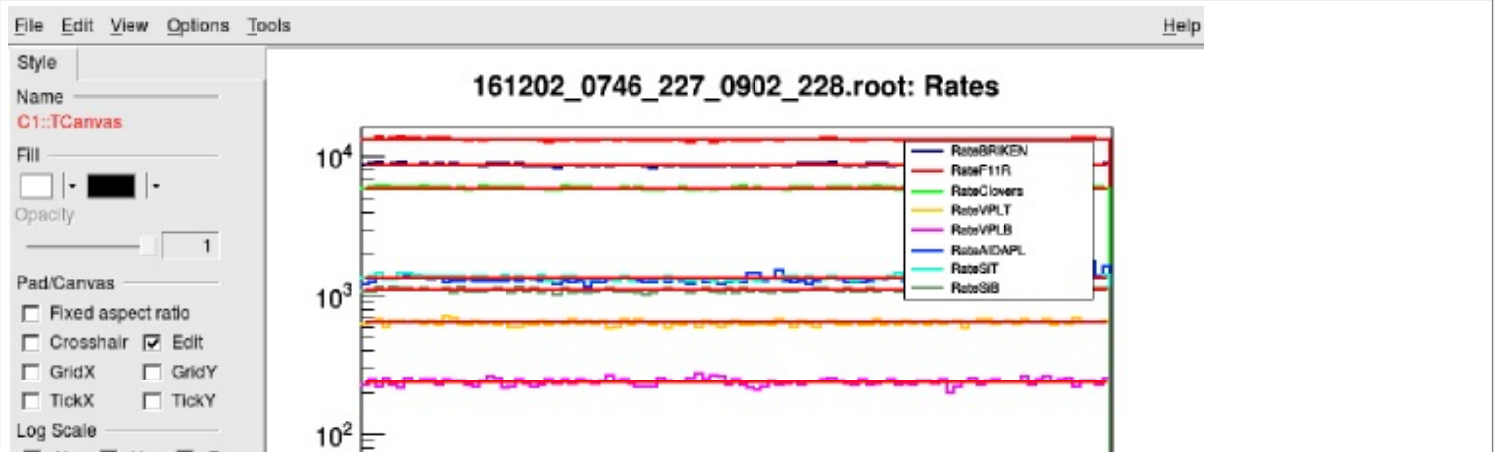
RateClovers = 593.099 cps  
 RateVPLT = 63.1554 cps  
 RateVPLB = 23.5979 cps  
 RateAIDAPL = 131.878 cps  
 RateSiT = 133.02 cps  
 RateSiB = 108.444 cps

=====  
 Date 2016/12/01  
 BRIKEN run : 228  
 BRIKEN stop : 09:02  
 ROOT online : 161202\_0746\_227\_0902\_228.root  
 AIDA run : R45\_18  
 AIDA stop : 09:02  
 BigRIPS RUN : 1145

Attachment 1: SyncCheckScreen20161202\_0745.png



Attachment 2: SyncCheckScreen20161202\_0910.png



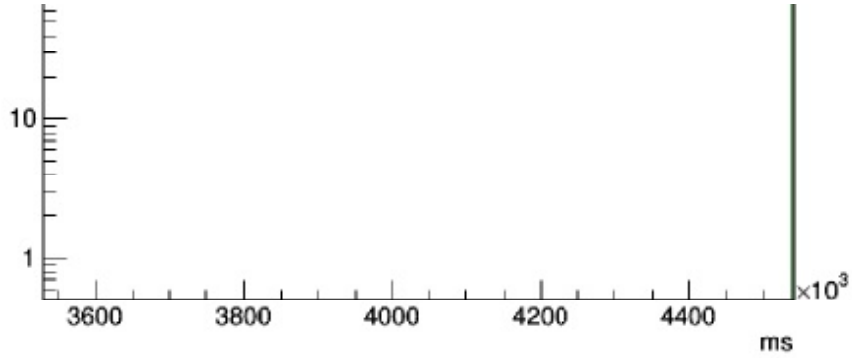
Border Mode

Sunken border

No border

Raised border

Size: 2



Pad graphics frame TFrame 354,352 x=4,10428e+06, y=11,2652

241	Fri Dec 2 00:16:13 2016	BRIKEN collaboration	run			213			
-----	-------------------------	----------------------	-----	--	--	-----	--	--	--

```
===== 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
```

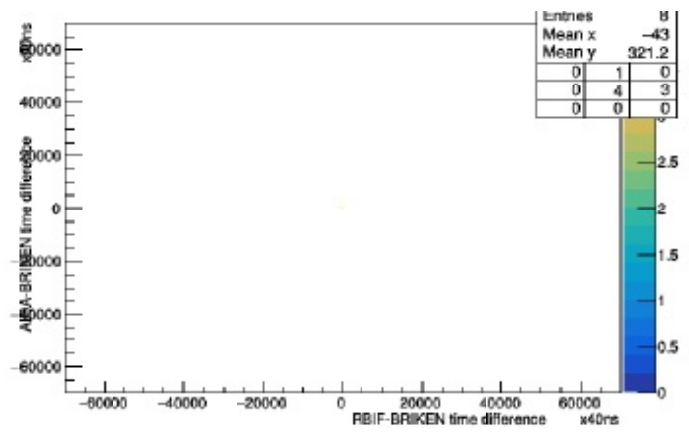
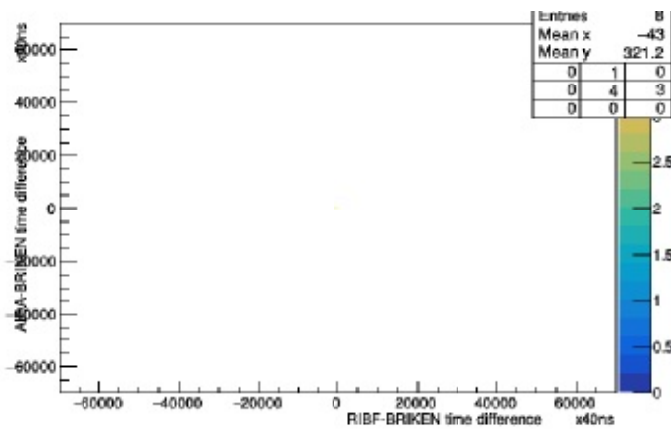
```
----- Rates -----
RateBRIKEN = 944.498 cps
RateF11R = 1421.53 cps
RateClovers = 636.961 cps
RateVPLT = 68.1139 cps
RateVPLB = 25.3215 cps
RateAIDAPL = 141.457 cps
RateSiT = 144.495 cps
RateSiB = 118.661 cps
```

```
===== 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
```

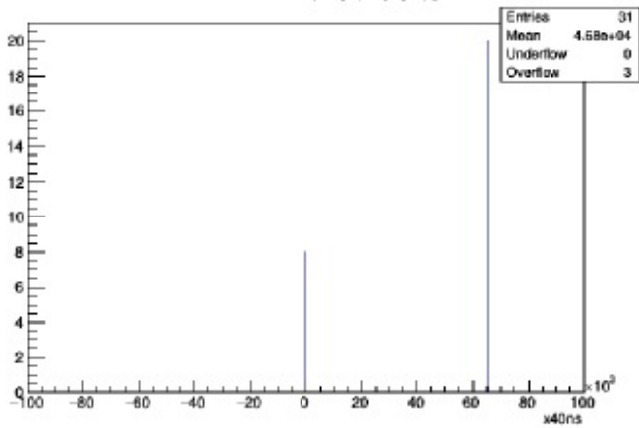
Attachment 1: [SyncCheckScreen20161201\\_2156.png](#)

[SyncCheckScreen20161201\\_2156.png](#)

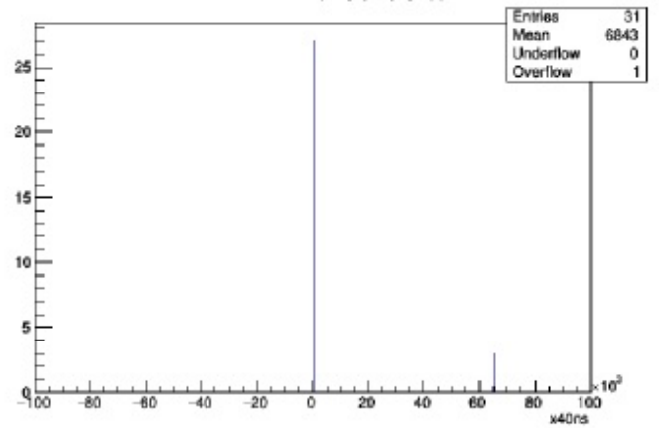
Attachment 2: [SyncCheckScreen20161201\\_2323.png](#)



RIBF1-BRIKEN time difference



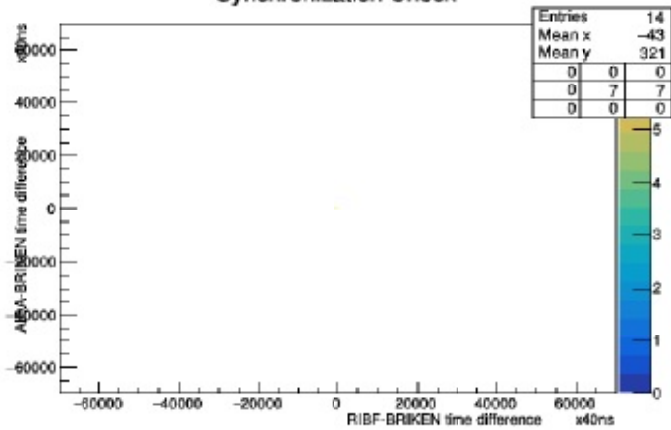
AIDA2-BRIKEN time difference



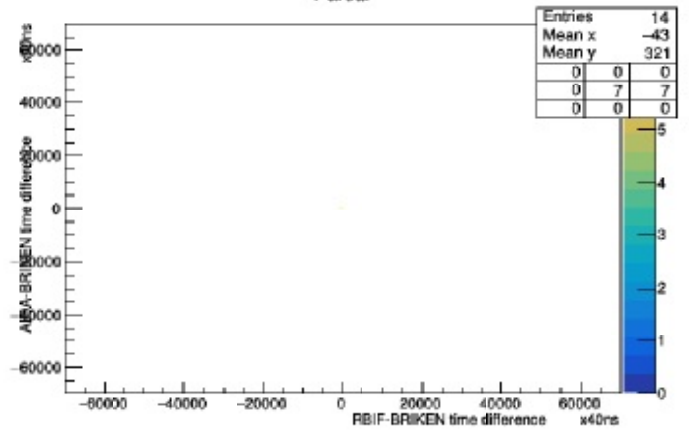
MyCanvas\_1\_2 MyCanvas\_1\_2 1202,325 x=96108.2, y=-58507.5  
Reset Exit

Attachment 3: SyncCheckScreen20161202\_0211.png

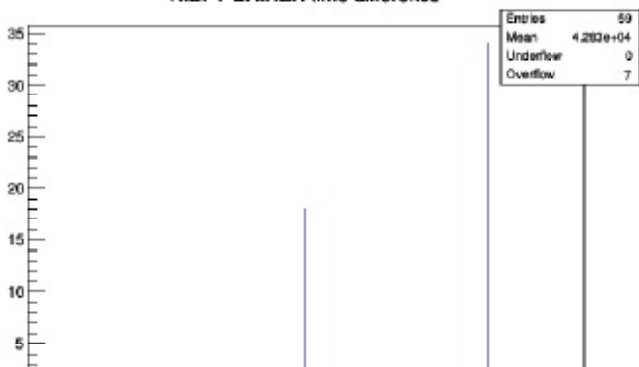
Synchronization Check



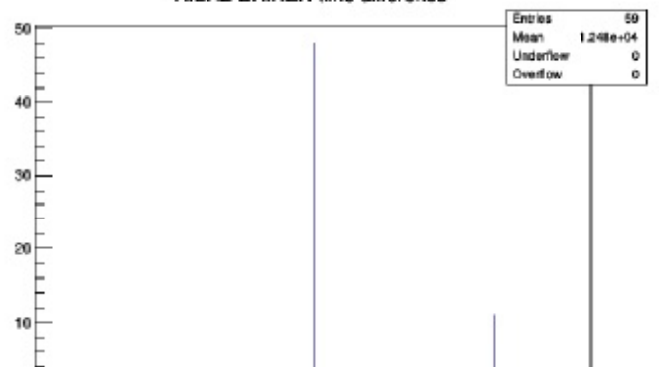
Partial

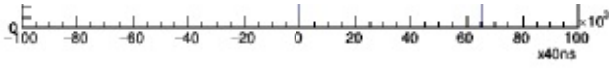


RIBF1-BRIKEN time difference



AIDA2-BRIKEN time difference





MyCanvas 1204.93 x=1.00001, y=0.883459

Reset Exit

Attachment 4: VisualScalerScreen20161202\_0256.png

File Edit View History Bookmarks Tools Help

Network Camera x

172.27.231.251/CgiStart?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

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Scan

Pen/Tilt Range

Zoom

Focus

Preset

Program

Brightness

Backlight

White Balance

Output

Refresh Rate

Resolution

Image Quality

In case of no audio, please click [here](#).  
<http://panasonic.biz/netvsai/networkcam/support/info.html>  
 Running in IPv4 mode.

240	Thu Dec 1 18:01:39 2016	BRIKEN collaboration	run			212	40Mg		
-----	-------------------------	----------------------	-----	--	--	-----	------	--	--



```

===== 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

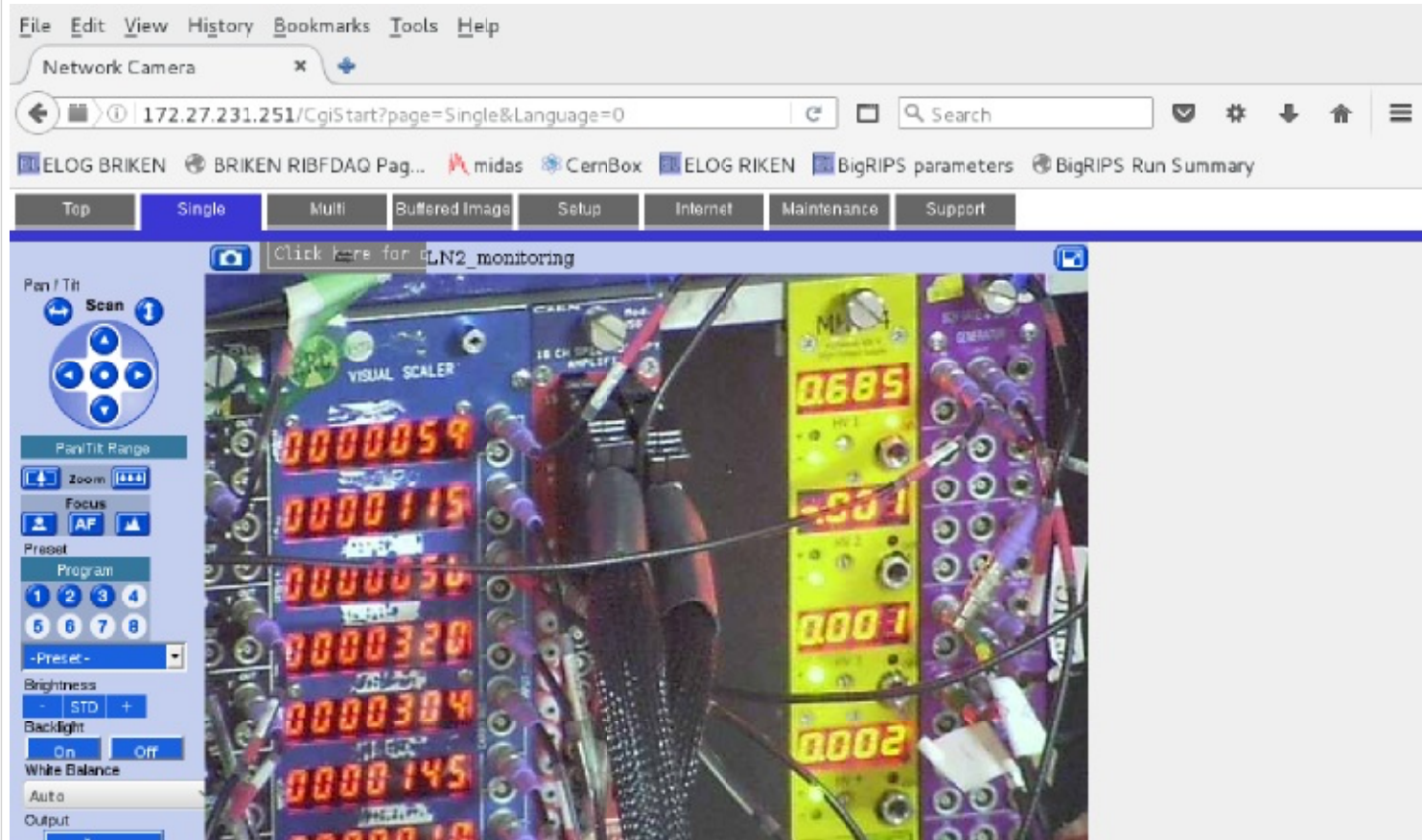
===== COMMENTS =====
17:49 ZDS back to 40Mg
17:57 Saved ----> SyncCheckScreen20161201_1757.png
18:02 Saved ----> VisualScalerScreen20161201_1802.png
18:33 Saved ----> VisualScalerScreen20161201_1833.png

----- 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](#)



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

239	Thu Dec 1 17:19:16 2016	BRIKEN collaboration	run		RUN   BRIKEN	211	41Al	
-----	-------------------------	----------------------	-----	--	--------------	-----	------	--

```

===== 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: 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. 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.
    
```

```

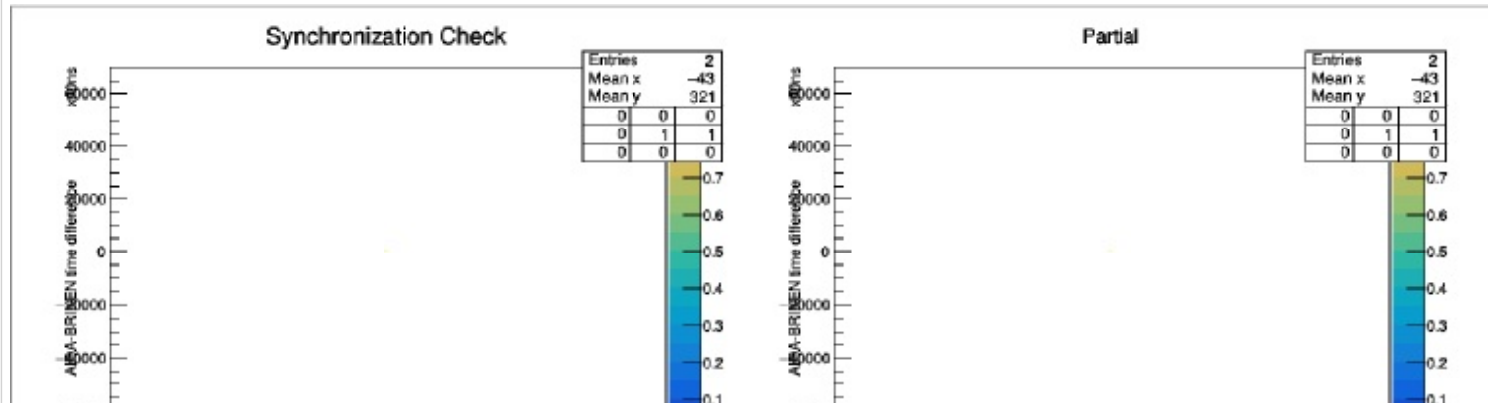
----- Rates -----

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
    
```

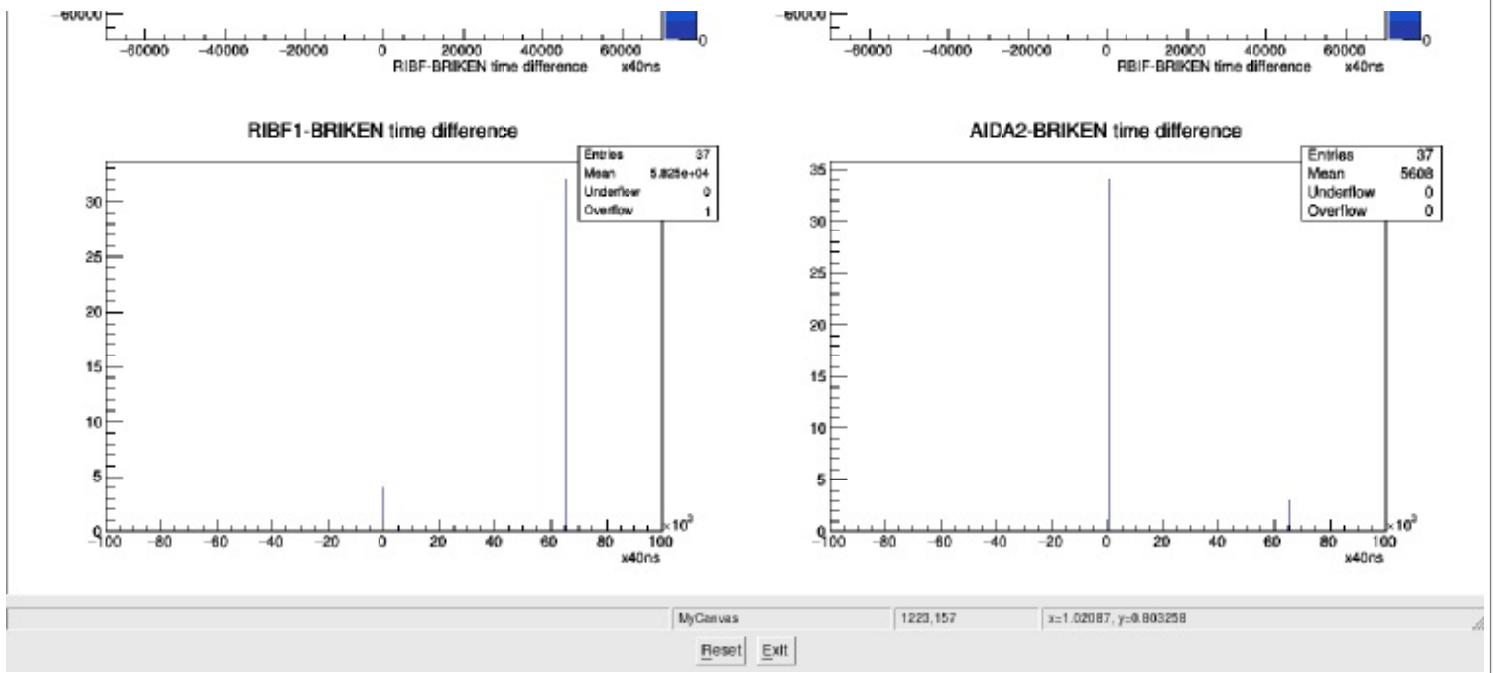
```

===== 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 x

172.27.231.251/CgiStart?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

Pen / Tit Scan

Part/Tilt Range

Zoom

Focus AF

Preset

Program 1 2 3 4 5 6 7 8

Brightness - STD +

Backlight On Off

White Balance Auto

Output 51.6 7-

Refresh Rate MJPEG

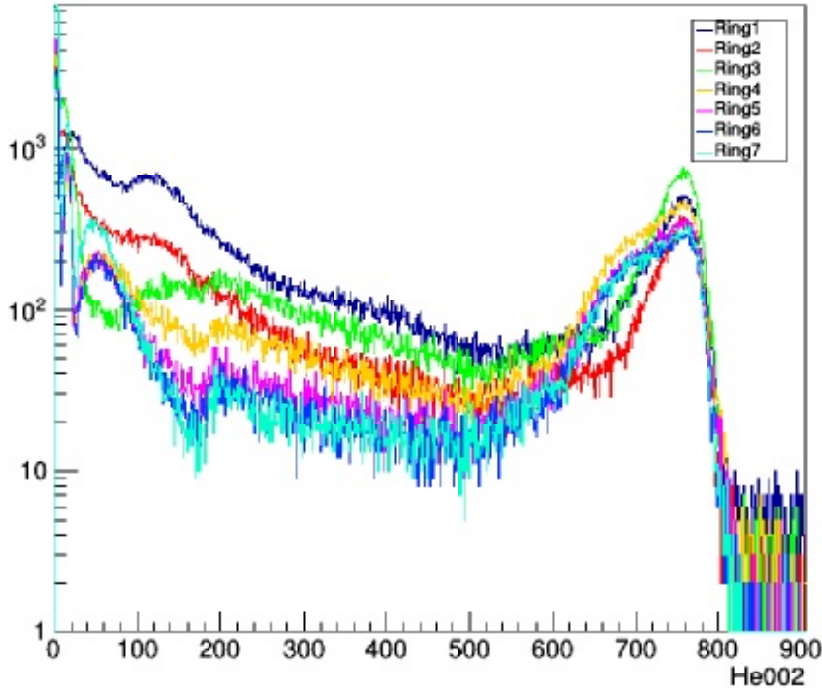
Resolution 640x480

Image Quality Favor Clarity

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

Attachment 3: 161201\_1714\_211\_1752\_Rings.png

### 161201\_1714\_211\_1752.root: Rings



238	Thu Dec 1 16:28:20 2016	BRIKEN collaboration	run	RUN   BRIKEN	209		
-----	-------------------------	----------------------	-----	--------------	-----	--	--

=====  
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 scalers. VisualScalerScreen20161201_1657.png saved!
17:09 The acquisition is stopped to change degrader
----- Rates -----

```

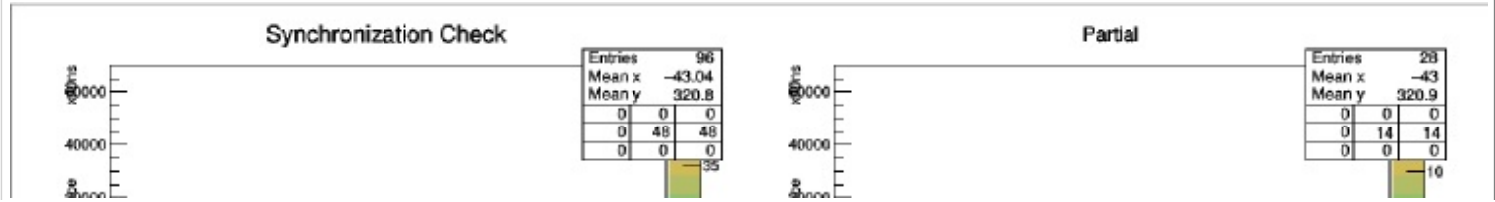
=====  
END  
=====

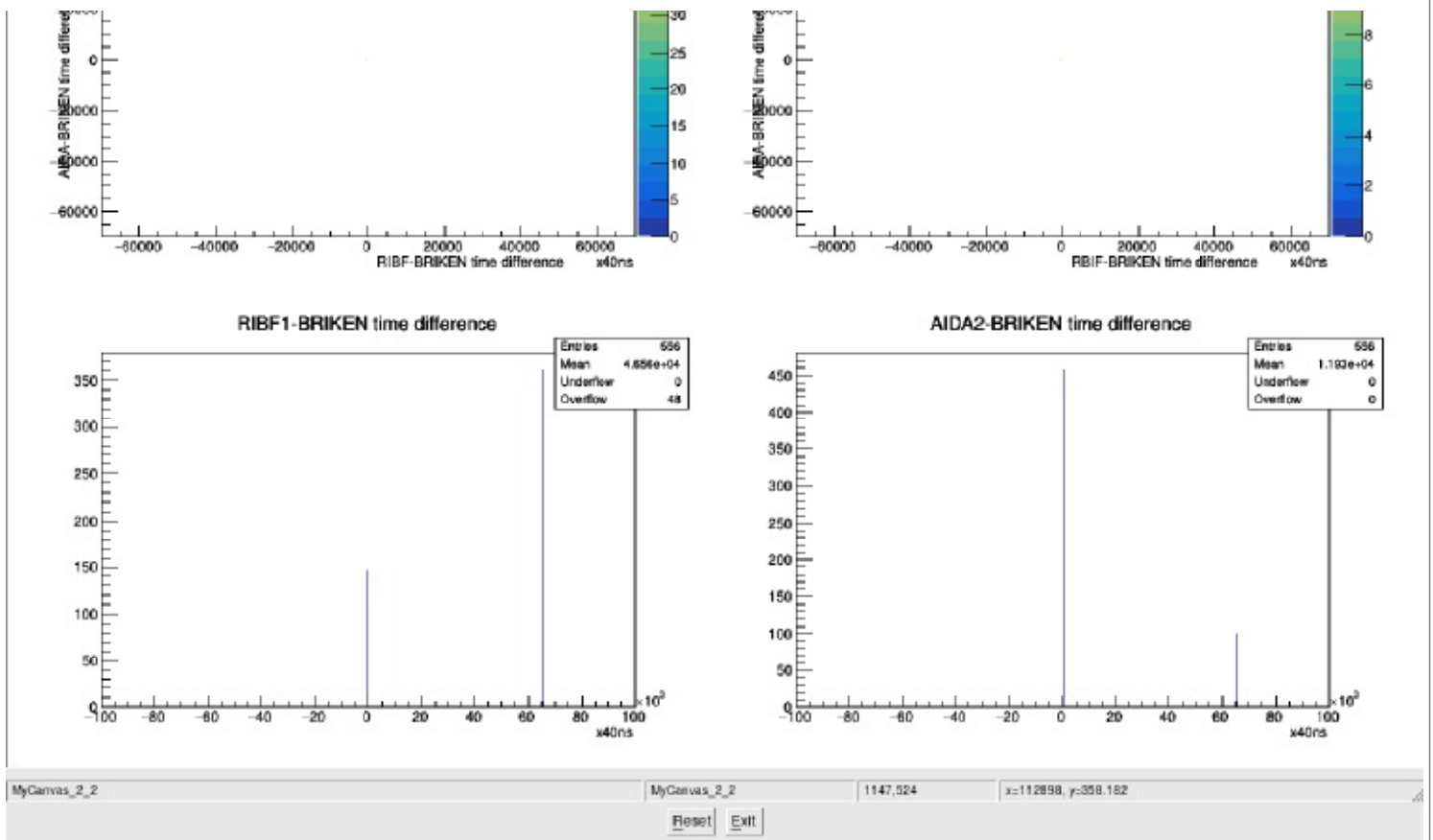
```

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

The screenshot shows a web browser interface for a network camera. The address bar shows the URL: [172.27.231.251/CgiStart?page=Single&Language=0](http://172.27.231.251/CgiStart?page=Single&Language=0). The browser tabs include "ELOG BRIKEN", "BRIKEN RIBFDAQ Pag...", "midas", "CernBox", "ELOG RIKEN", "BigRIPS parameters", and "BigRIPS Run Summary".

The interface has a menu bar with "Top", "Single", "Multi", "Buffered Image", "Setup", "Internet", "Maintenance", and "Support". Below the menu is a "Click here for LN2 monitoring" link.

On the left side, there is a control panel for "Pen / Tit" with a "Scan" button and a directional pad. Below that are sections for "Pan/Tilt Range", "Zoom", "Focus", "Preset", "Program", "Brightness", "Backlight", "White Balance", "Output", "Refresh Rate", and "Resolution".

The main area shows a live video feed of the "VISUAL SCALER" equipment. The equipment has several red digital displays showing values like "0000090", "0000062", "0000030", "0000062", "0000044", "0000027", "0000007", and "0000002". There are also yellow and purple control panels with buttons and knobs.

At the bottom of the video feed, there is a text box: "In case of no audio, please click here." and a link: <http://parasonic.biz/netsvs/networkcom/support/info.html>



Image Quality Running in IPv4 mode.

Favor Clarity

237	Thu Dec 1 13:36:11 2016	BRIKEN collaboration	run		RUN   BRIKEN	205-208		
-----	-------------------------	----------------------	-----	--	--------------	---------	--	--

```

===== 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: 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 =====
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

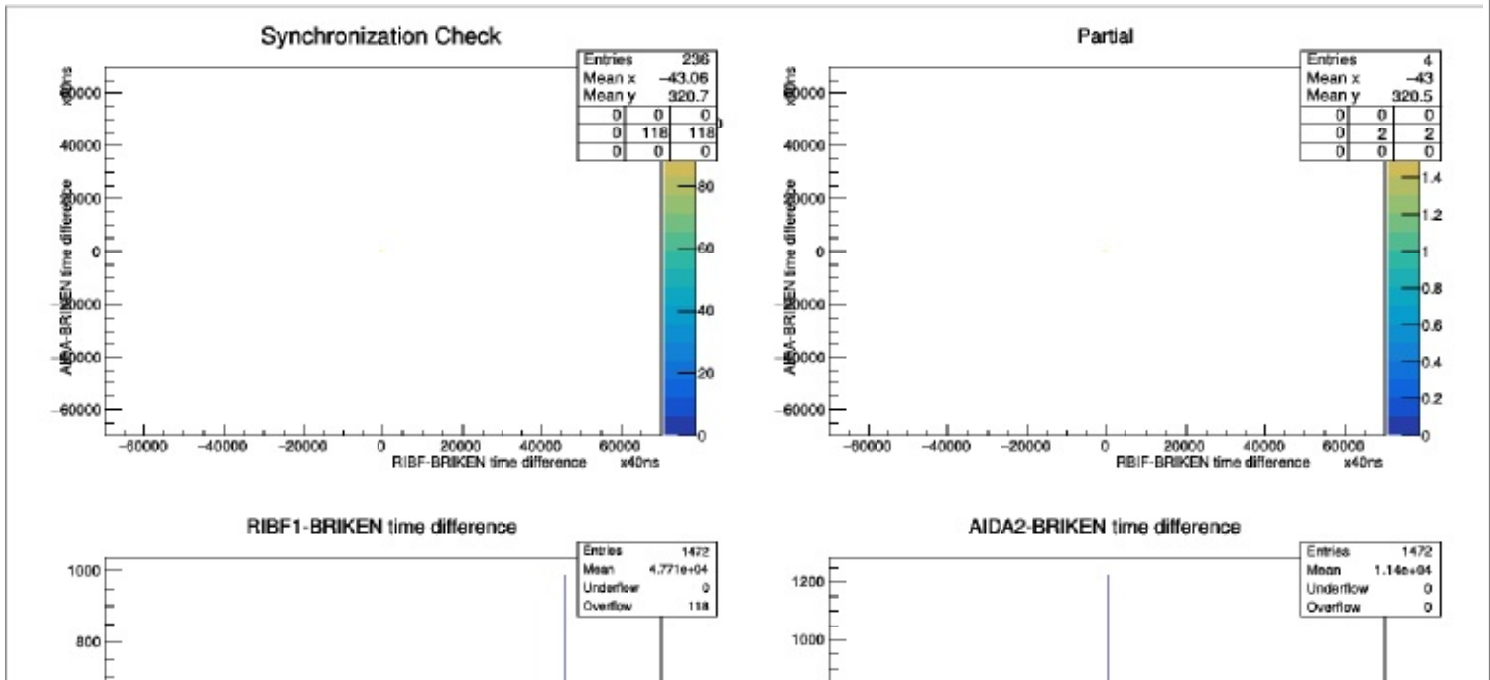
```

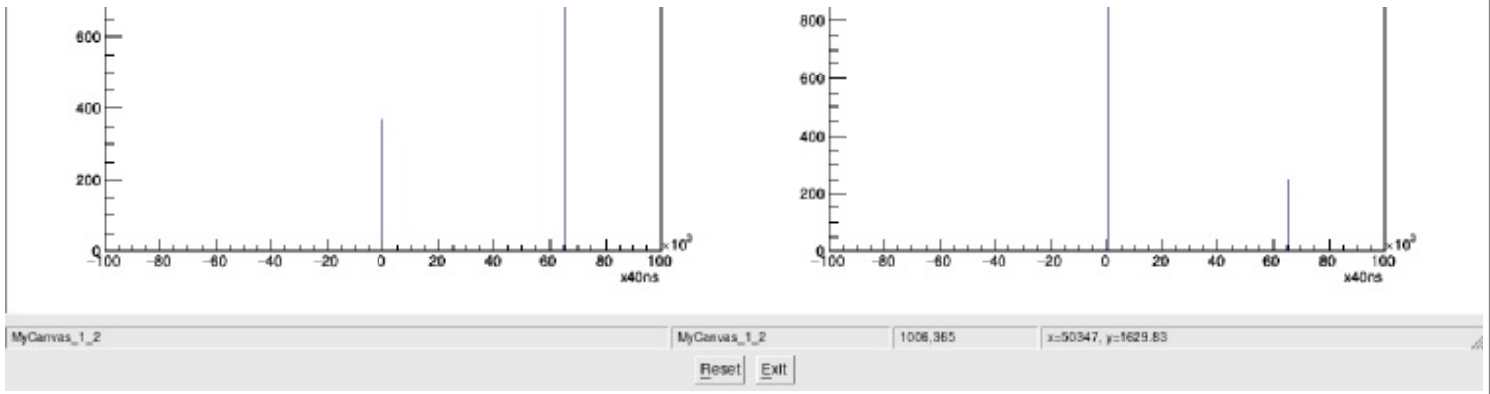
```

===== 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

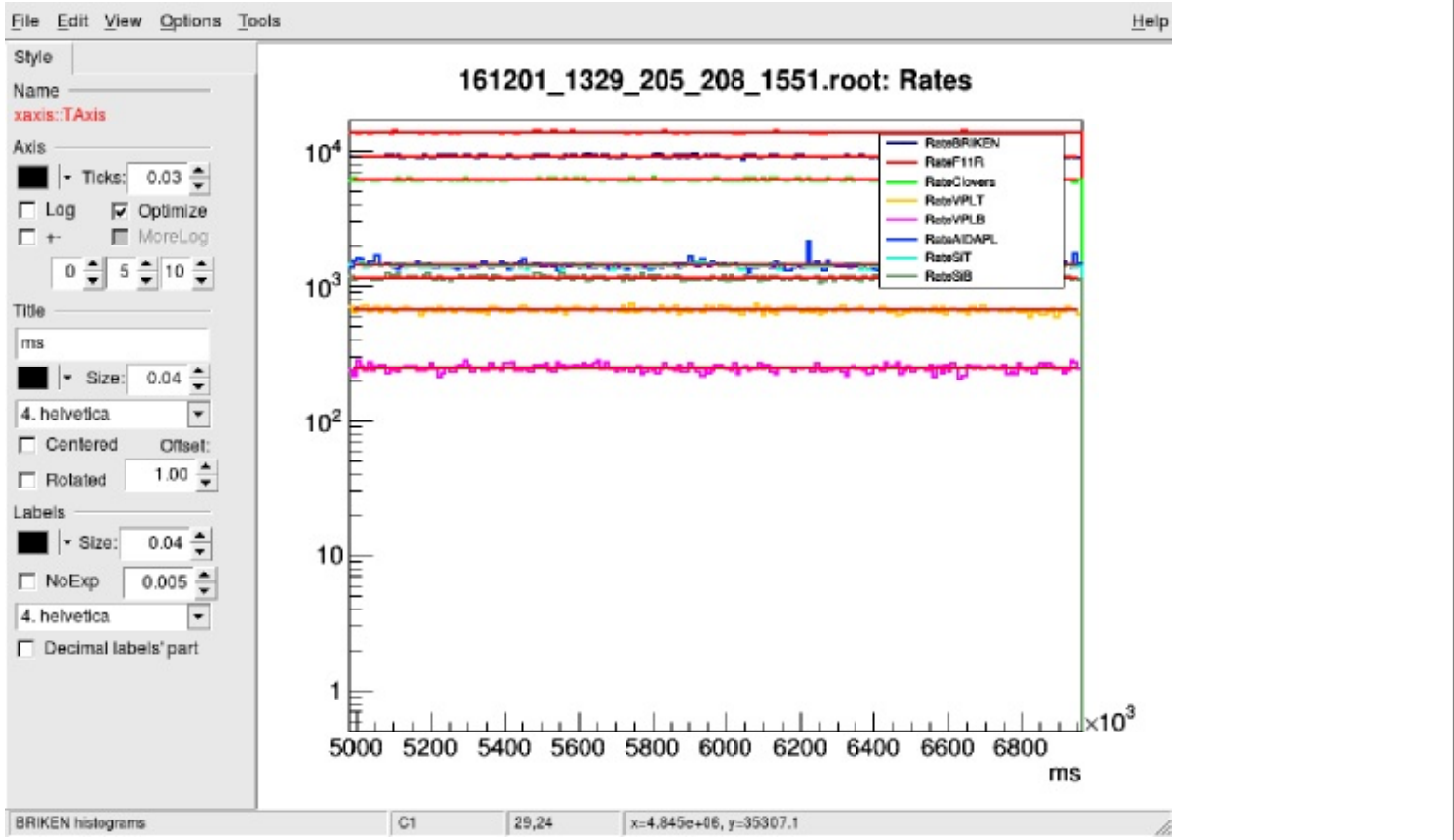
```

Attachment 1: SyncCheckScreen20161201\_1338.png





Attachment 2: SyncCheckScreen20161201\_1604.png



236	Thu Dec 1 11:16:47 2016	BRIKEN collaboration	Energy calibration for the Clover detectors (using 152Eu source)	BRIKEN				
-----	-------------------------	----------------------	--	--------	--	--	--	--

Calibration using 152Eu source, see:  
<http://ribf-exp.riken.jp/eelog/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	RUN   BRIKEN	201-204			
-----	-------------------------	----------------------	-----	--------------	---------	--	--	--

```

===== 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

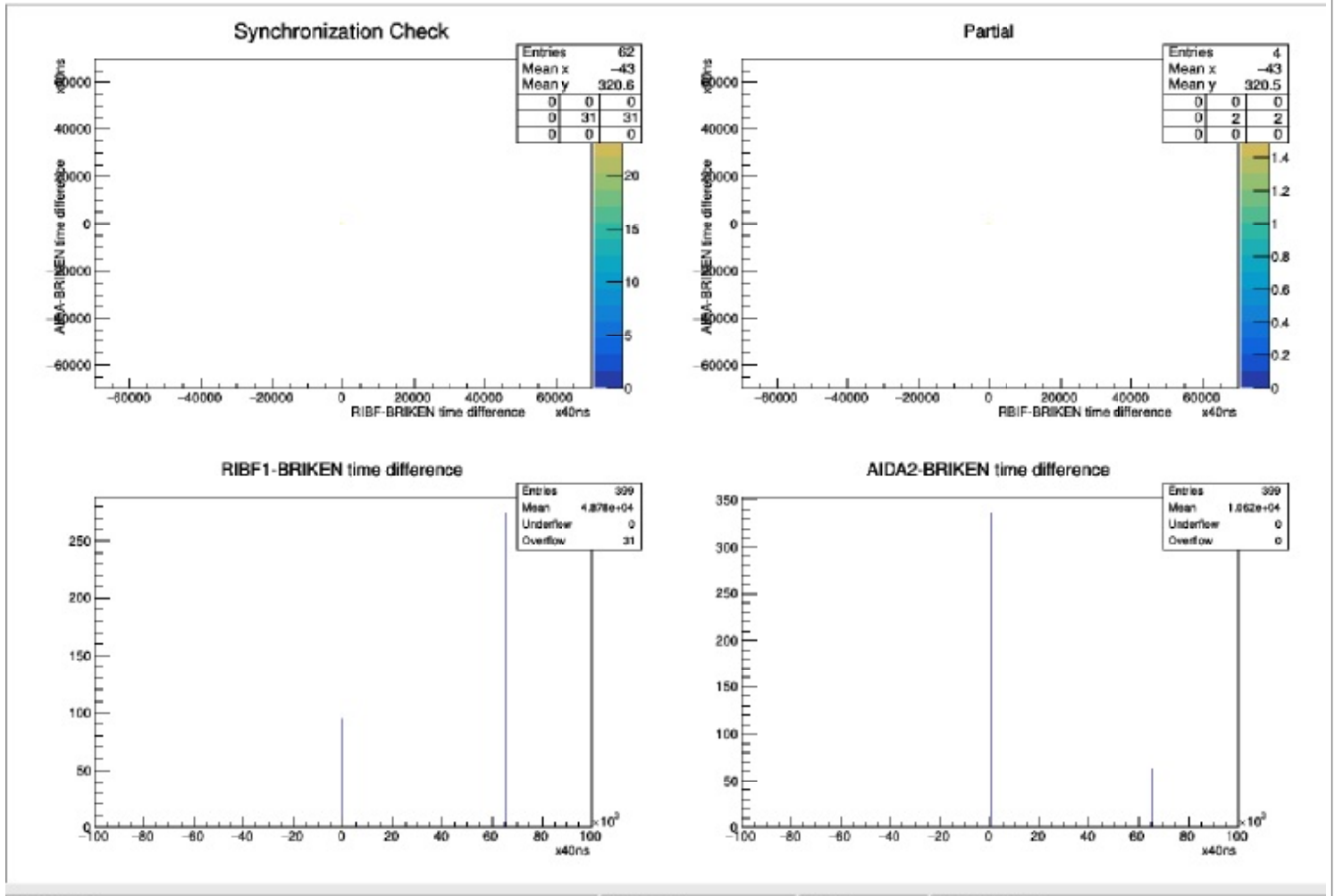
----- Rates -----

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			197			
-----	-------------------------	-------------------------	--------------------	--	--	-----	--	--	--

```

===== 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: 41A1 @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

```

```

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

```

```

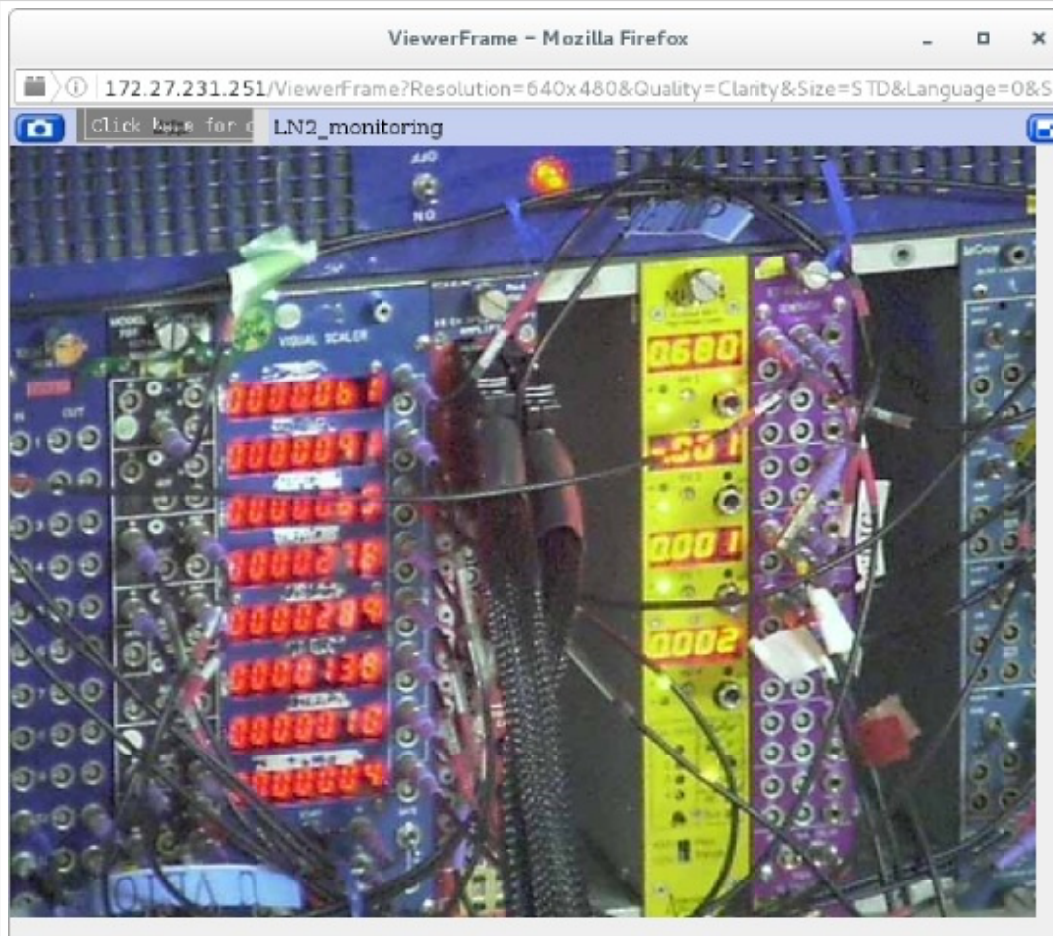
===== END =====
Date 2016/12/01
BRIKEN run    : 200
BRIKEN stop   : 10:03
ROOT online   : 161201_0747_198_200_1003.root
AIDA run      : 42_28
AIDA stop     : no-stop
BigRIPS RUN   : 1121

```

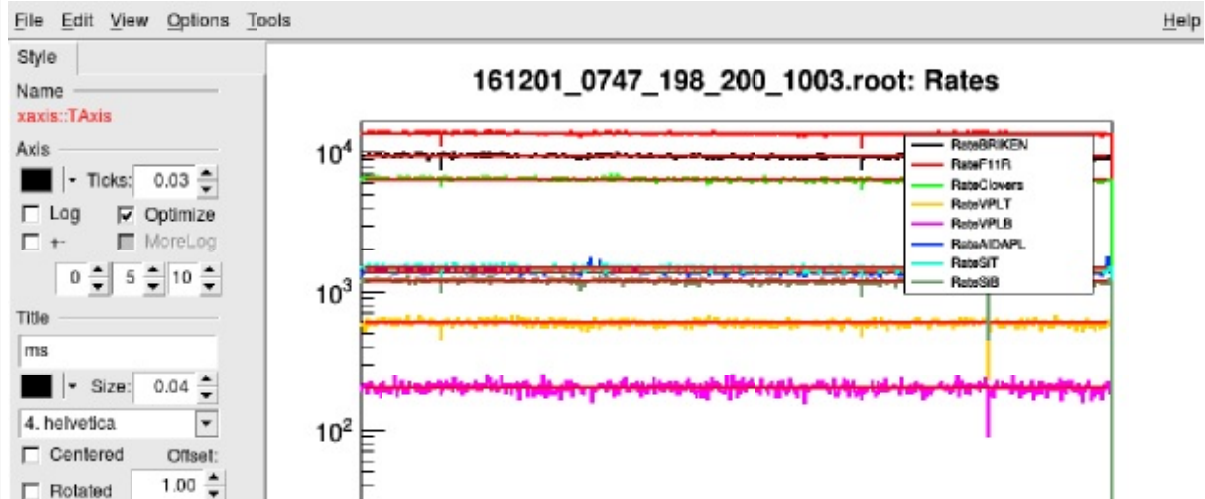
Attachment 1: SyncCheckScreen20161201\_0803.png

SyncCheckScreen20161201\_0803.png

Attachment 2: 161201\_0824\_Scaler.png



Attachment 3: SyncCheckScreen20161201\_1028.png



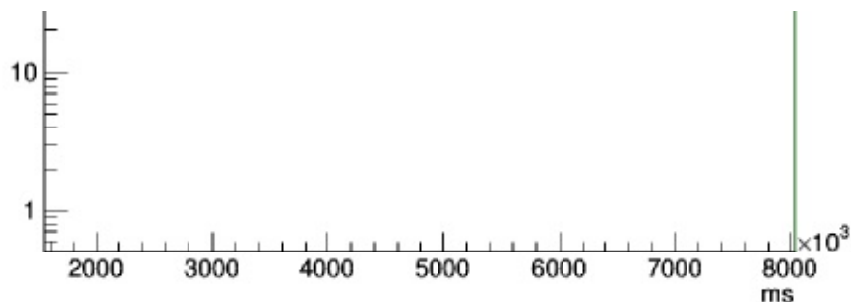
Labels

Size: 0.04

NoExp: 0.005

4. helvetica

Decimal labels' part



BRIKEN histograms C1 824,205 x=8.66226e+06, y=414.839

233	Wed Nov 30 19:16:35 2016	BRIKEN collaboration	run		RUN   BRIKEN	183			
-----	--------------------------	----------------------	-----	--	--------------	-----	--	--	--

===== 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)

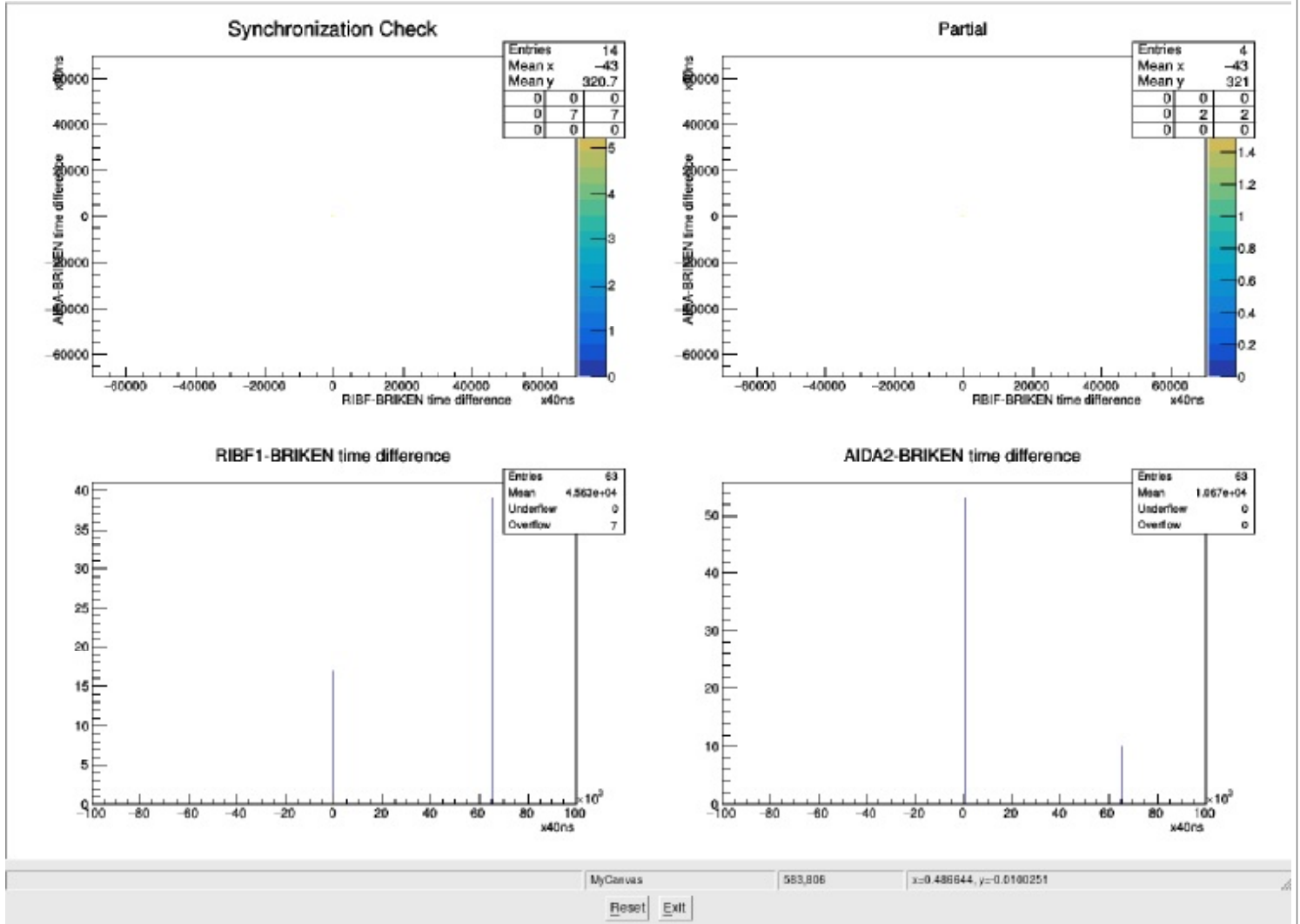
----- Rates -----  
 RateBRIKEN = 998.64 cps  
 RateF11R = 1440.91 cps  
 RateClovers = 672.712 cps  
 RateVPLT = 62.6999 cps  
 RateVPLB = 21.3961 cps  
 RateAIDAPL = 147.352 cps  
 RateSiT = 154.733 cps  
 RateSiB = 125.008 cps

===== END =====

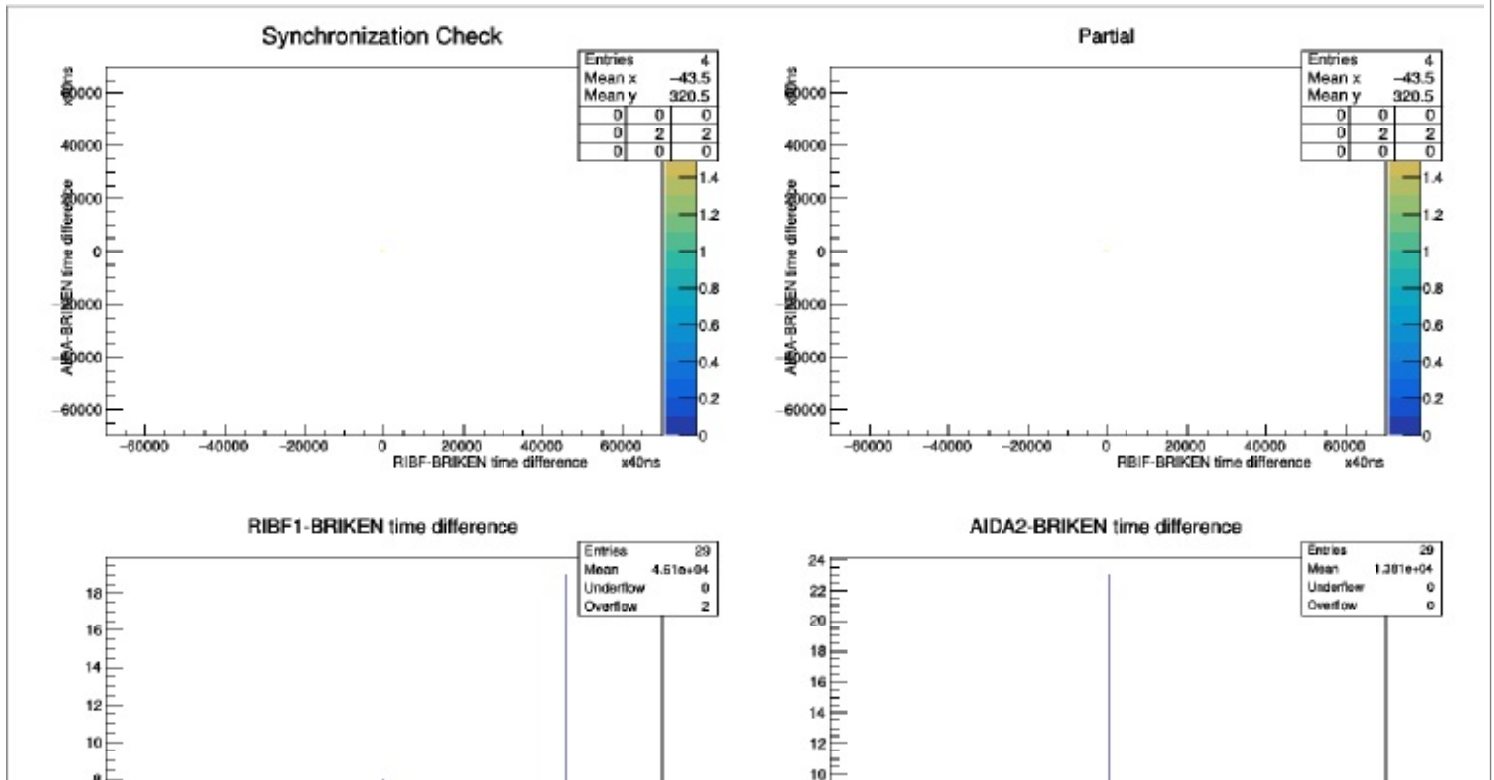
Date 2016/12/01  
 BRIKEN run : 197  
 BRIKEN stop : 06:26  
 ROOT online : 161130\_1942\_183\_197\_0626.root  
 AIDA run : R41\_126  
 AIDA stop : 06:26



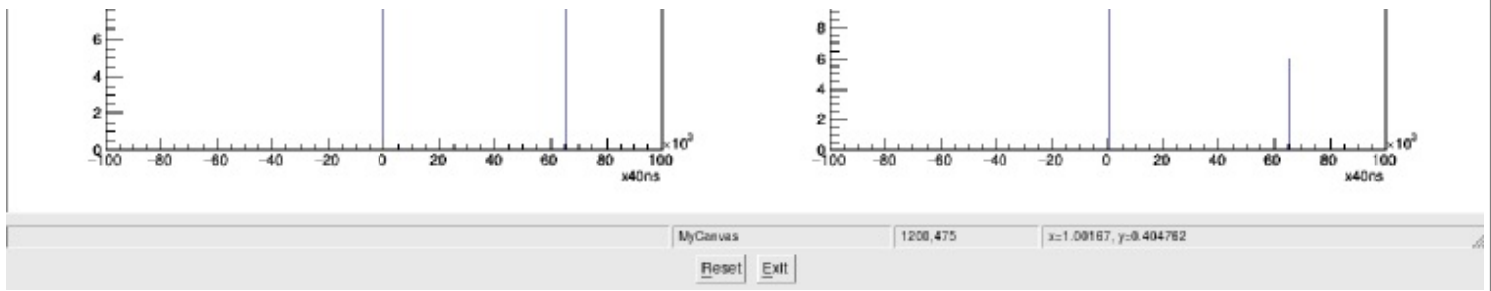
Attachment 1: SyncCheckScreen20161130\_1940.png



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

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

Top Single Multi Buffered Image Setup Internet Maintenance Support

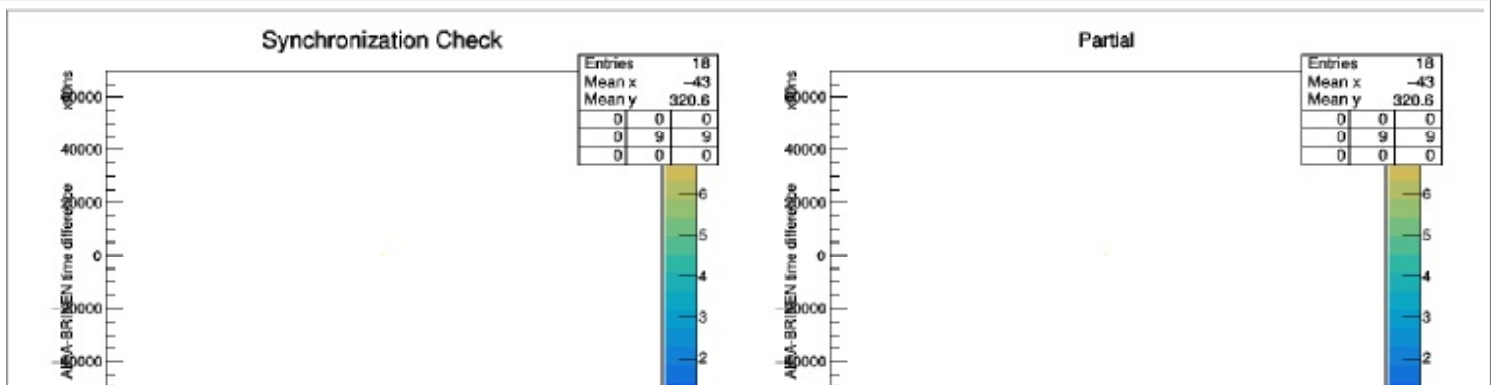
LN2\_monitoring

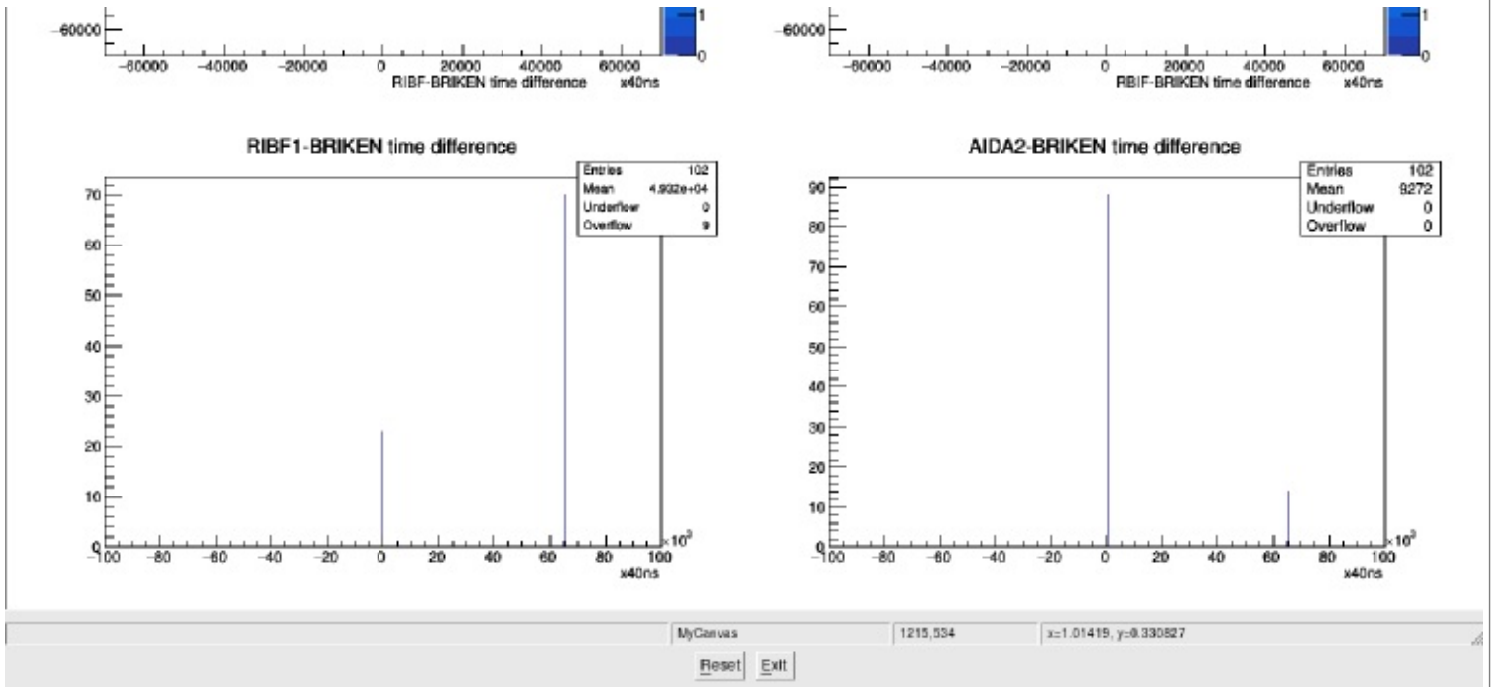
Pan / Tit Scan 1

Pan/Tit Range Zoom Focus AF Preset Program Brightness Backlight White Balance Output Refresh Rate Resolution Streaming Method

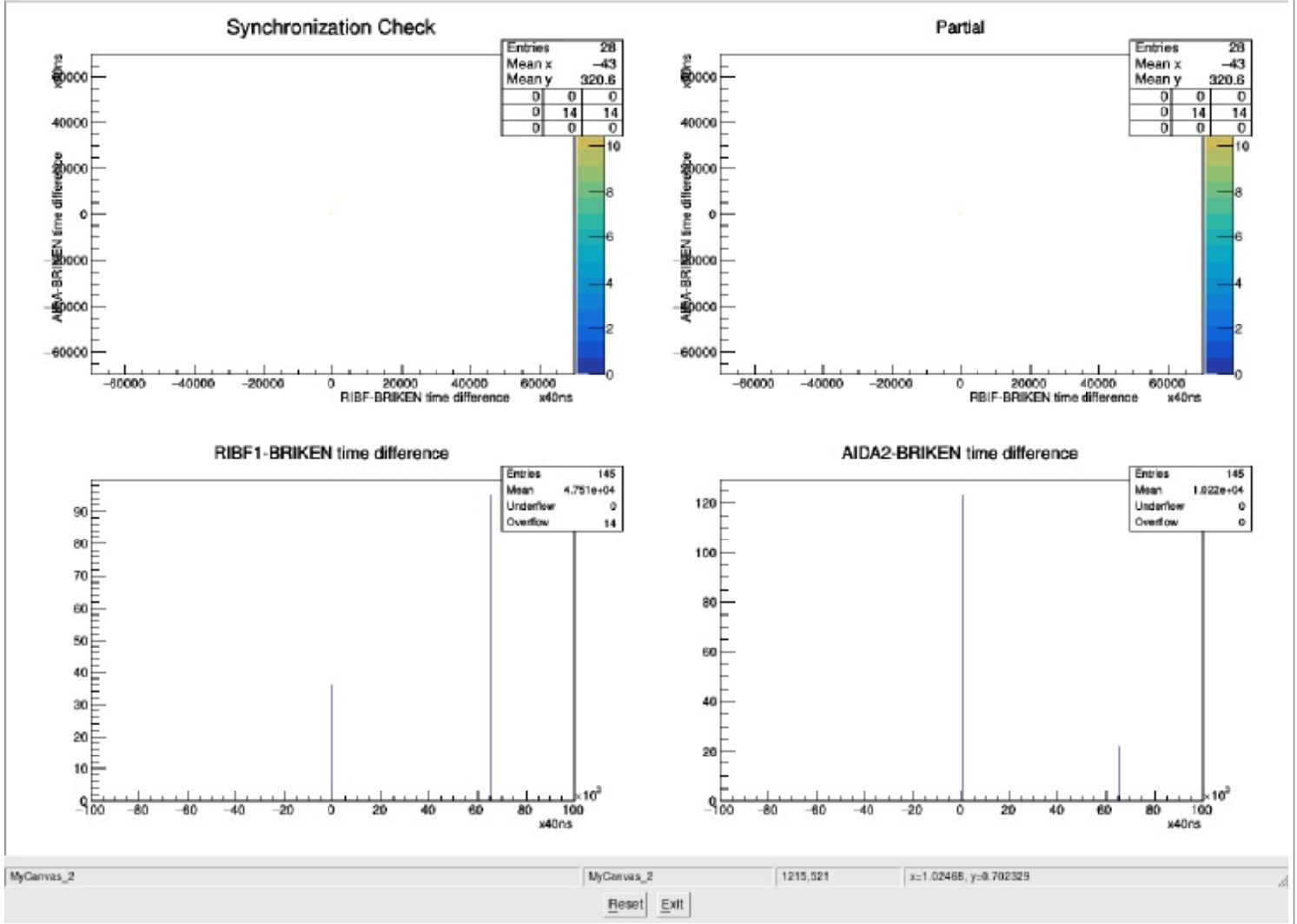
In case of no audio, please click here.  
<http://panasonic.biz/retvsa/networkcam/support/info.html>  
 Running in IPv4 mode.

Attachment 4: SyncCheckScreen20161130\_2302.png





Attachment 5: SyncCheckScreen20161201\_0046.png



232	Wed Nov 30 16:31:56 2016	BRIKEN collaboration	run	RUN   BRIKEN	180-182			
-----	--------------------------	----------------------	-----	--------------	---------	--	--	--

=====  
 START  
 Date 2016/11/30  
 Start time : 16:26  
 BRIKEN run : 180

```

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

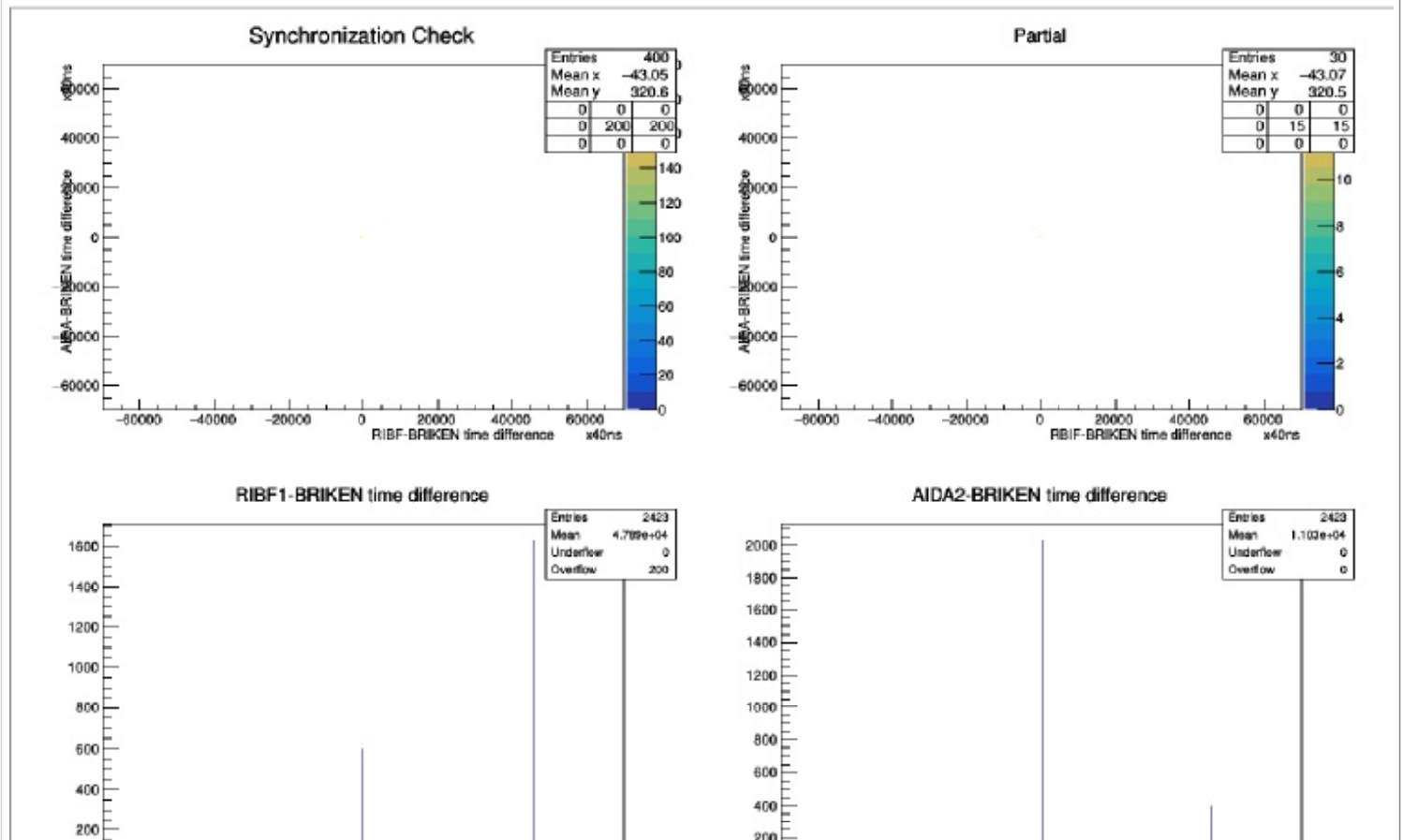
```

```

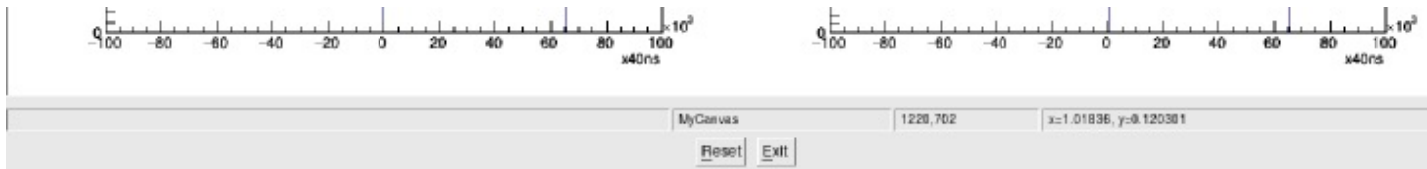
===== END =====
Date 2016/11/30
BRIKEN run      : 172
BRIKEN stop     : 18:21
ROOT online     : 161130_1626_1836.root
AIDA run        : R39_60
AIDA stop       : 18:21
BigRIPS RUN     : 1105

```

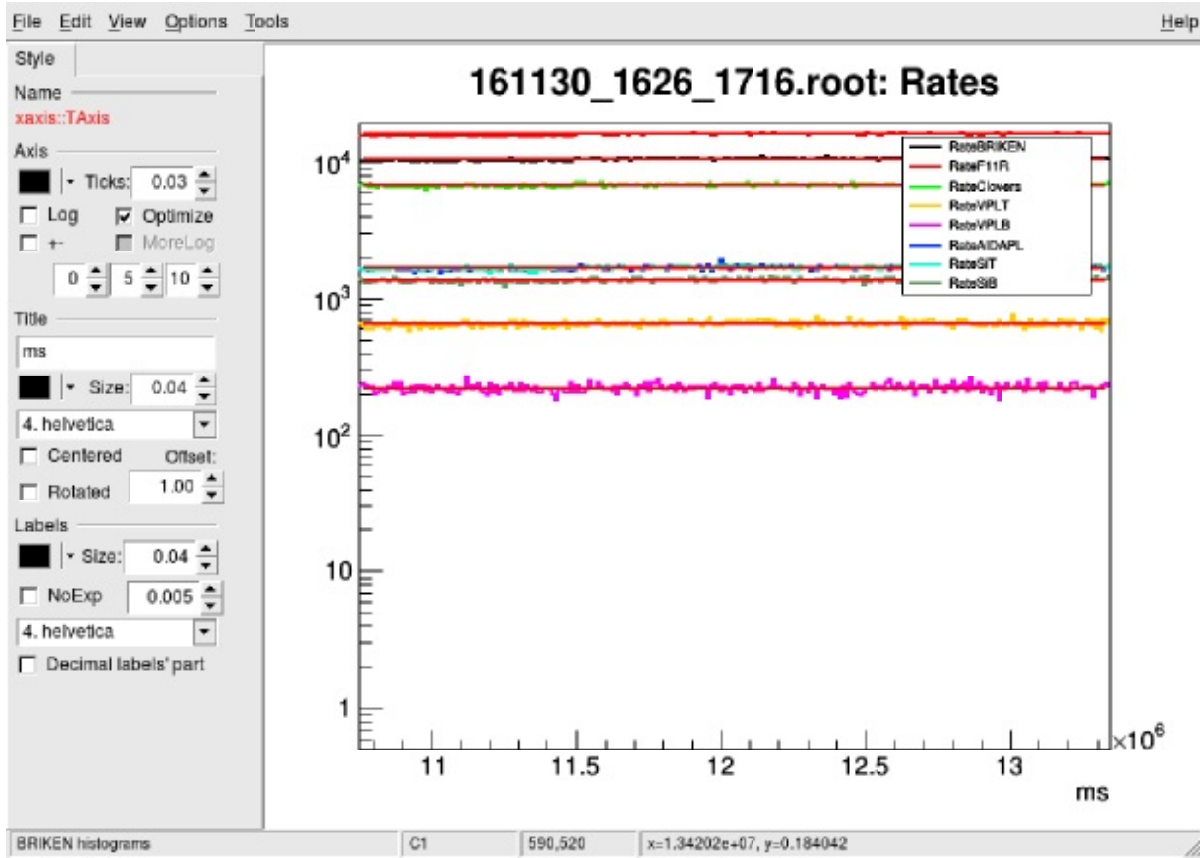
Attachment 1: SyncCheckScreen20161130\_1649.png



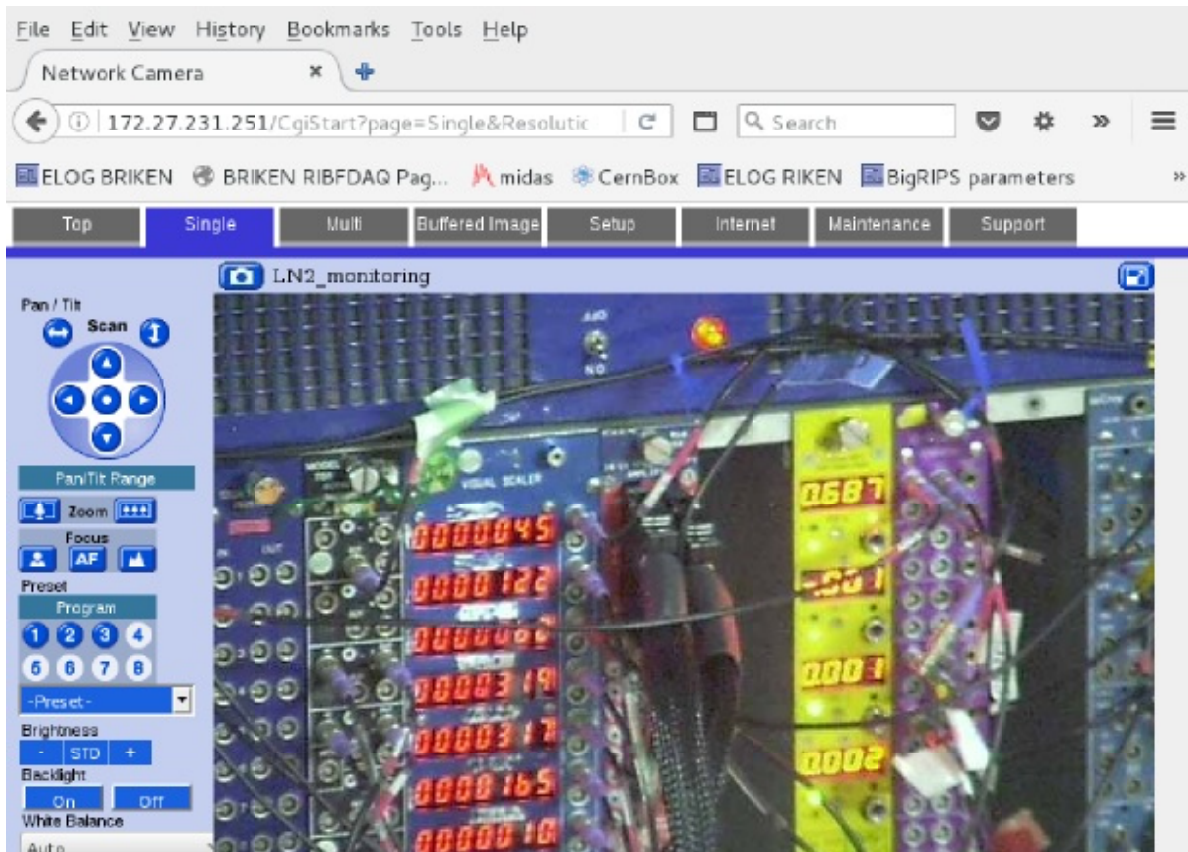




Attachment 2: SyncCheckScreen20161130\_1718.png



Attachment 3: VisualScalerScreen20161130\_1822.png

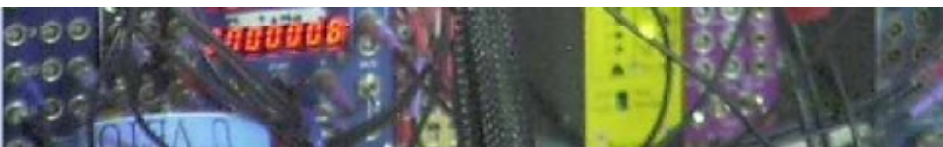


Output

Refresh Rate: MPEG-4

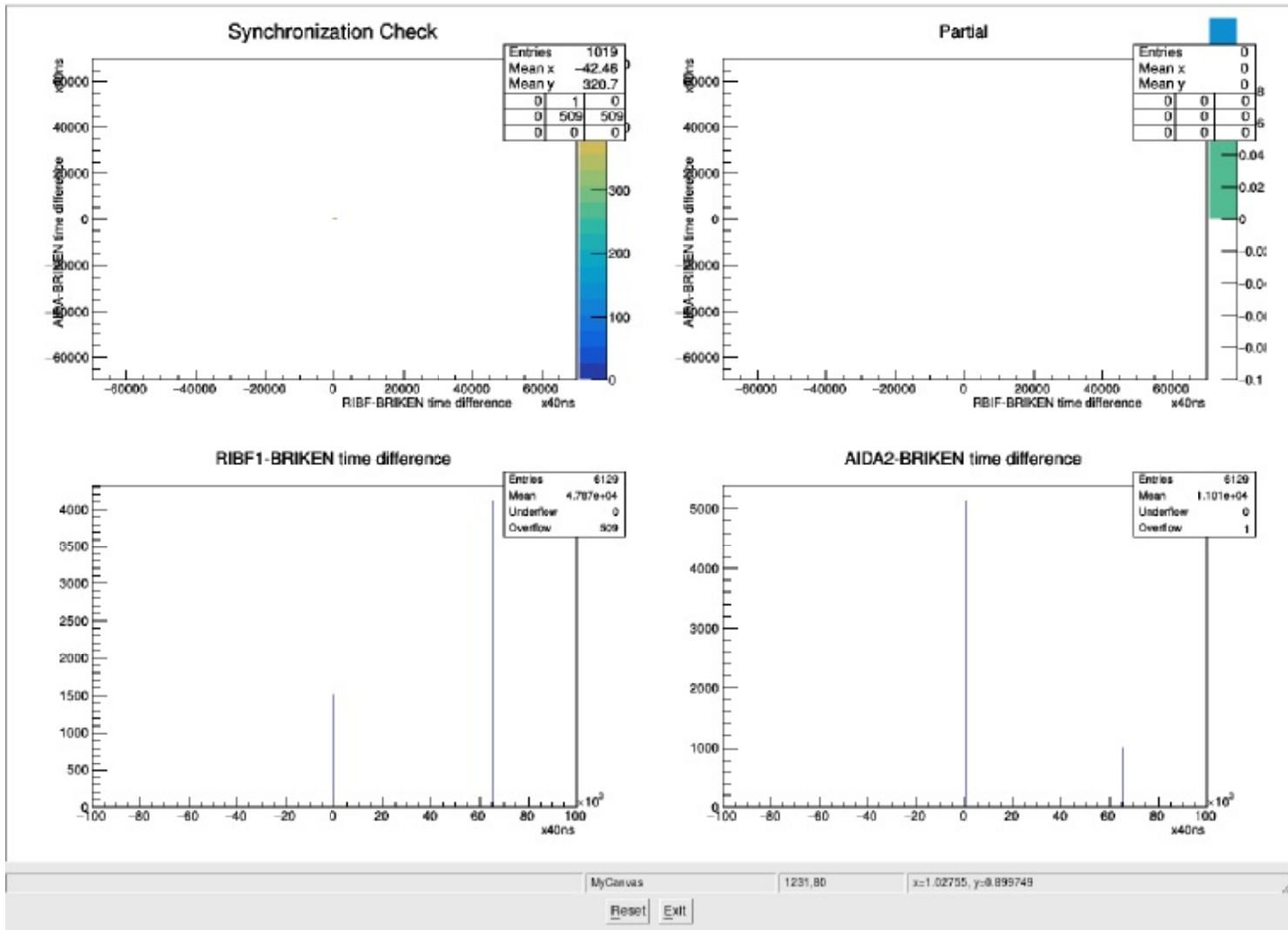
Resolution: 640x480

Streaming Method: Auto



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

Attachment 4: SyncCheckScreen20161130\_1827.png



231	Wed Nov 30 15:34:08 2016	BRIKEN collaboration	run	RUN   BRIKEN	178-179			
-----	--------------------------	----------------------	-----	--------------	---------	--	--	--

```

===== 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=(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)

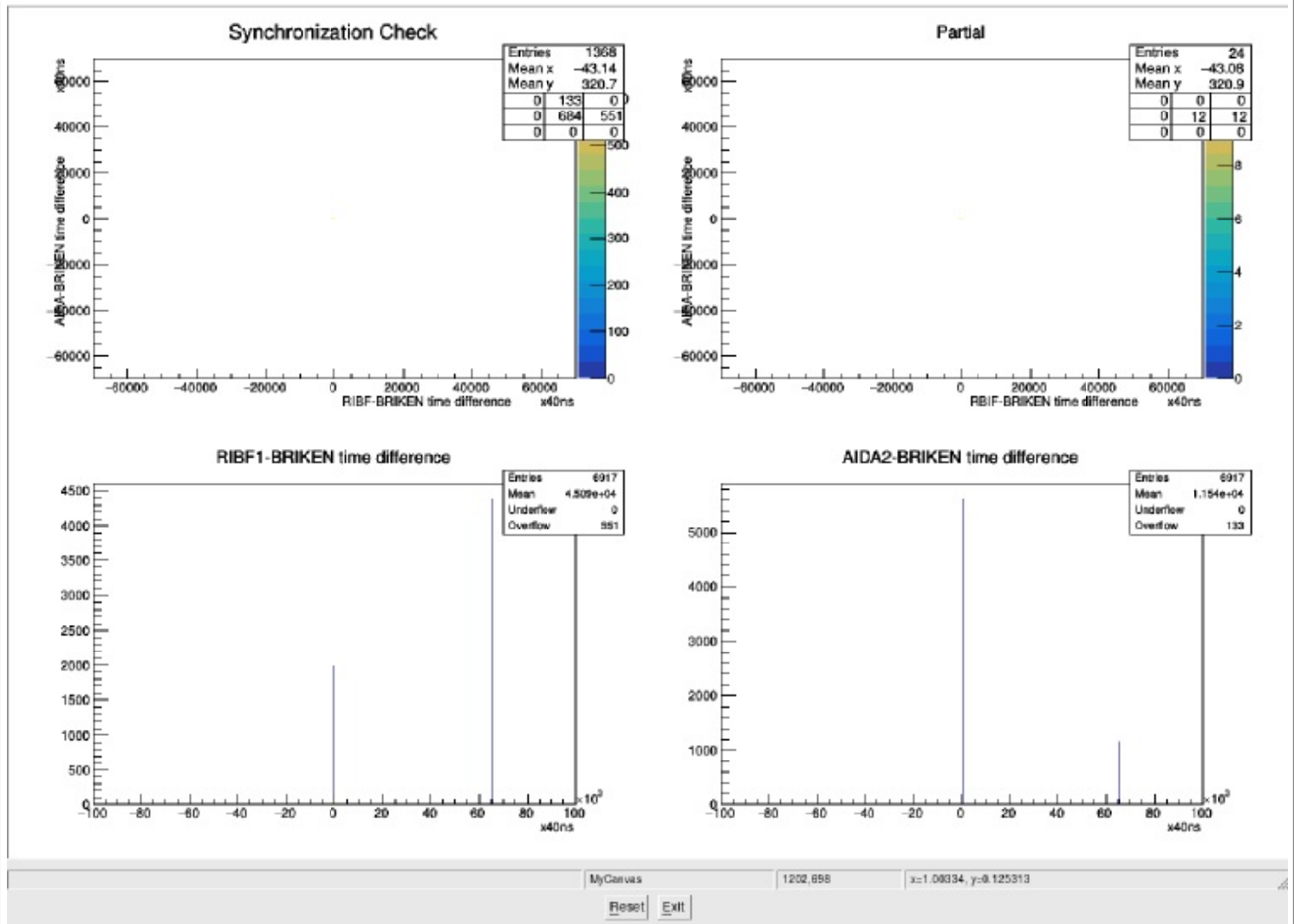
----- Rates -----

===== 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		RUN   BRIKEN	175-177		
-----	--------------------------	----------------------	-----	--	--------------	---------	--	--

===== 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

Central fragment: 41A1 @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

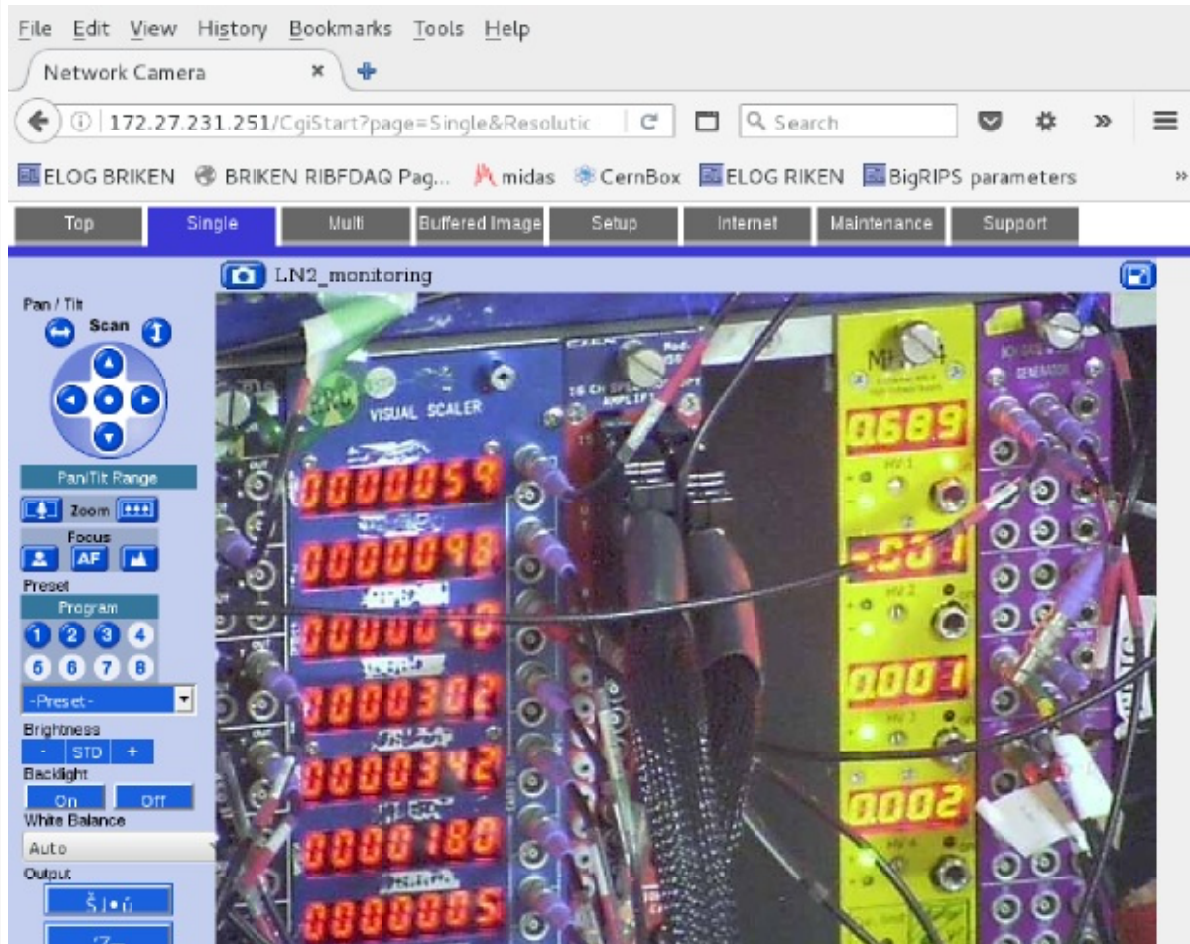
ROOT online : 161130\_1333\_1524.root

AIDA run : R39\_25

AIDA stop : 15:27

BigRIPS RUN : 1102


Attachment 1: VisualScalerScreen20161130\_1349.png



Refresh Rate  
MPEG-4

Resolution  
640x480

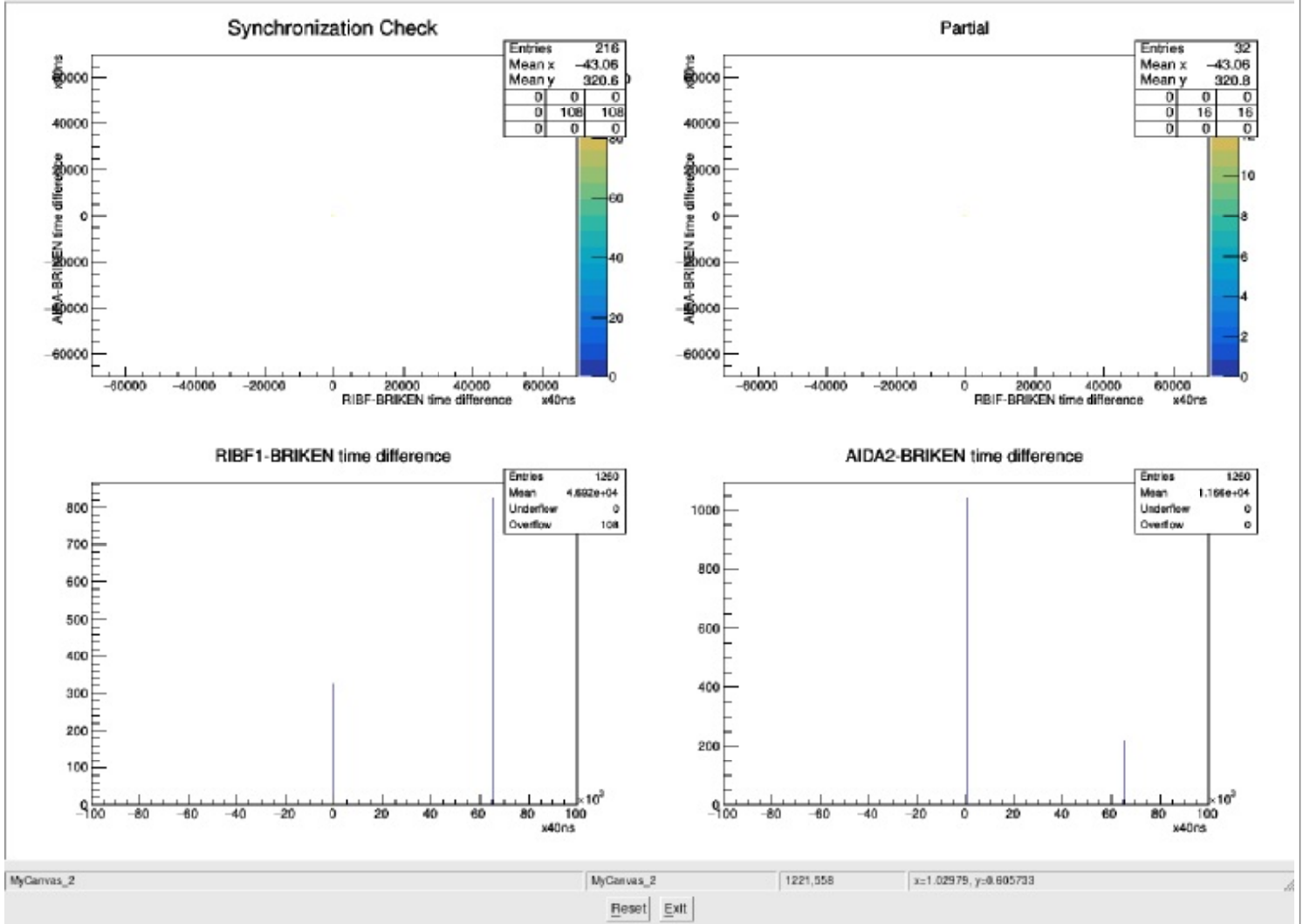
Streaming Method  
Auto



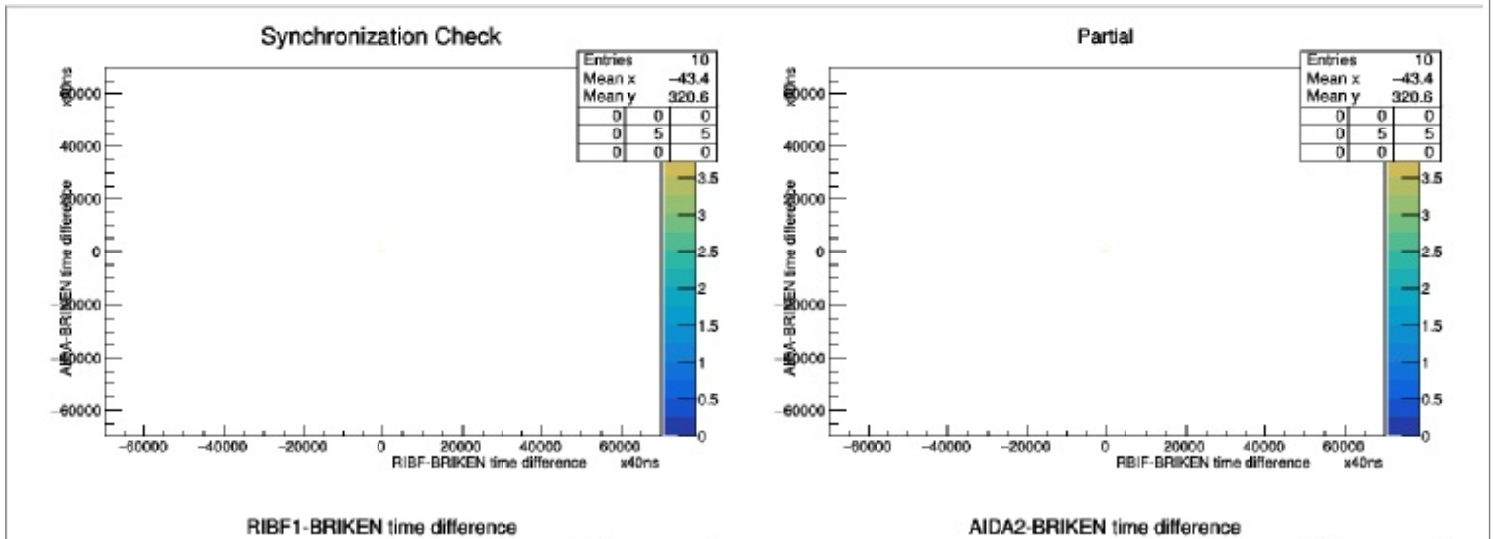
In case of no audio, please click here.  
<http://panasonic.biz/net/va/network.com/support/info.html>

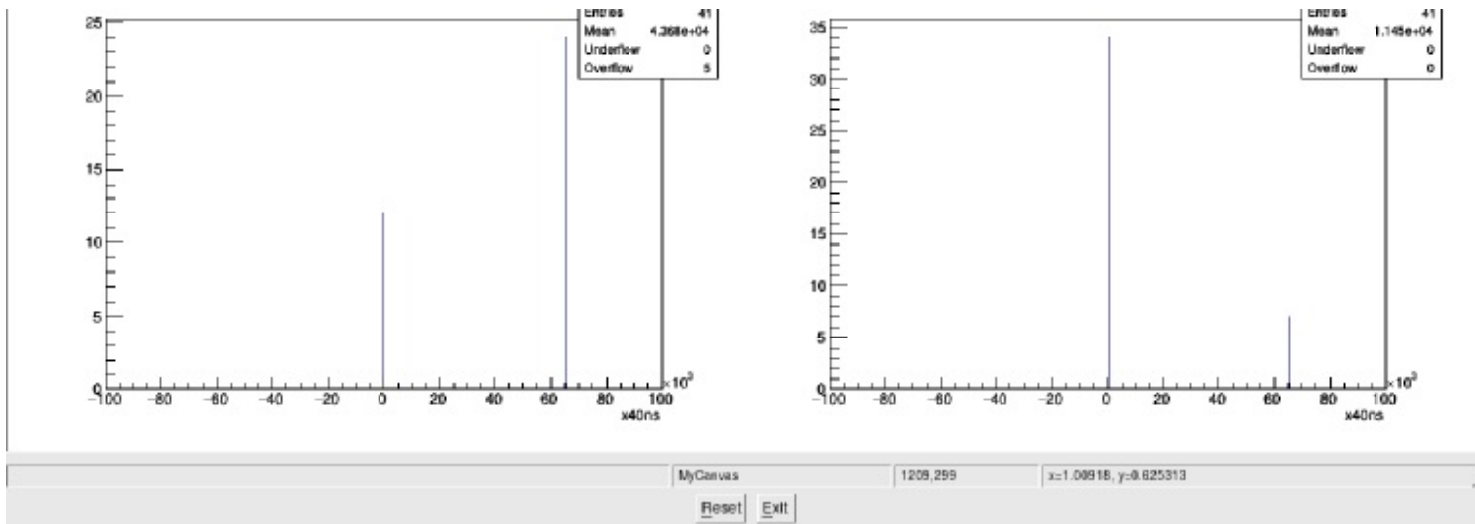
Running in IPv4 mode.

Attachment 2: SyncCheckScreen20161130\_1341.png

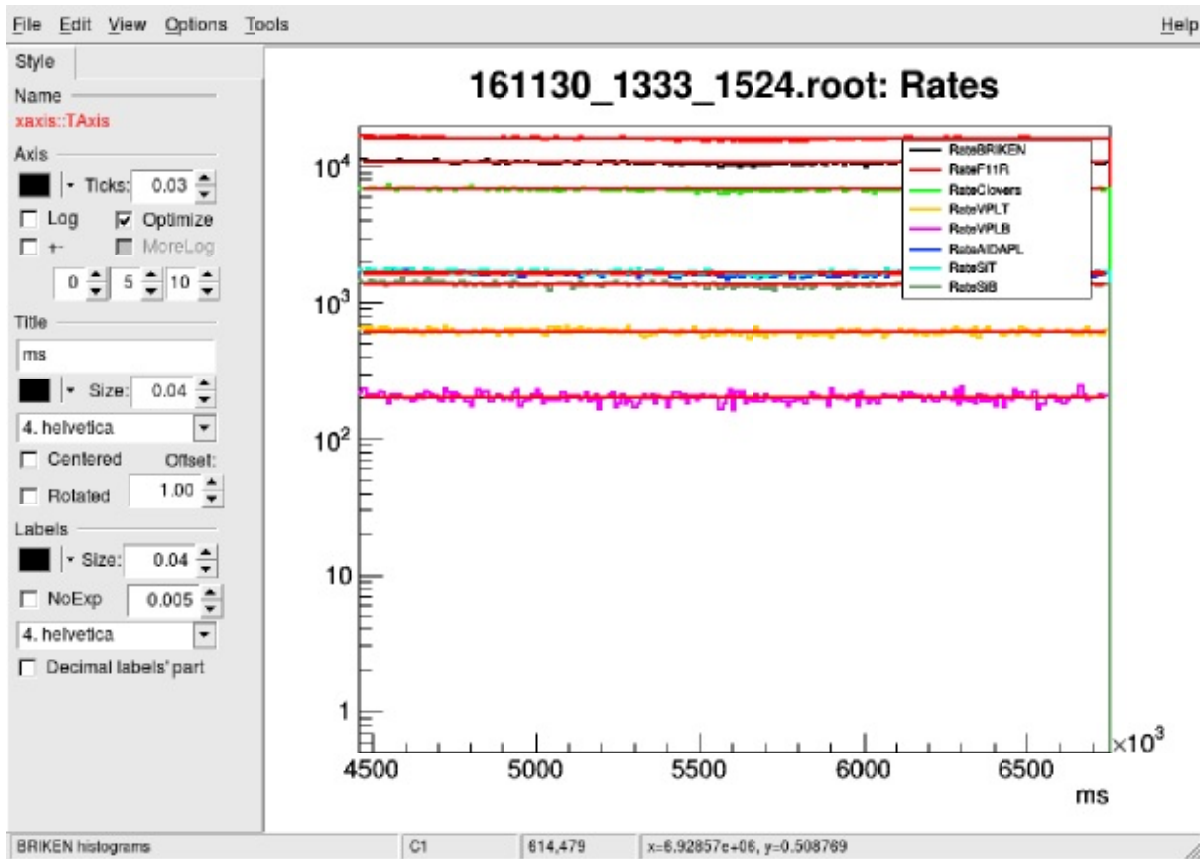


Attachment 3: SyncCheckScreen20161130\_1521.png





Attachment 4: SyncCheckScreen20161130\_1526.png



229	Wed Nov 30 11:24:54 2016	BRIKEN collaboration	run		RUN   BRIKEN	172-174	40Mg (41Al @F8)		
-----	--------------------------	----------------------	-----	--	--------------	---------	-----------------	--	--

```

===== 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

```

===== 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 -----

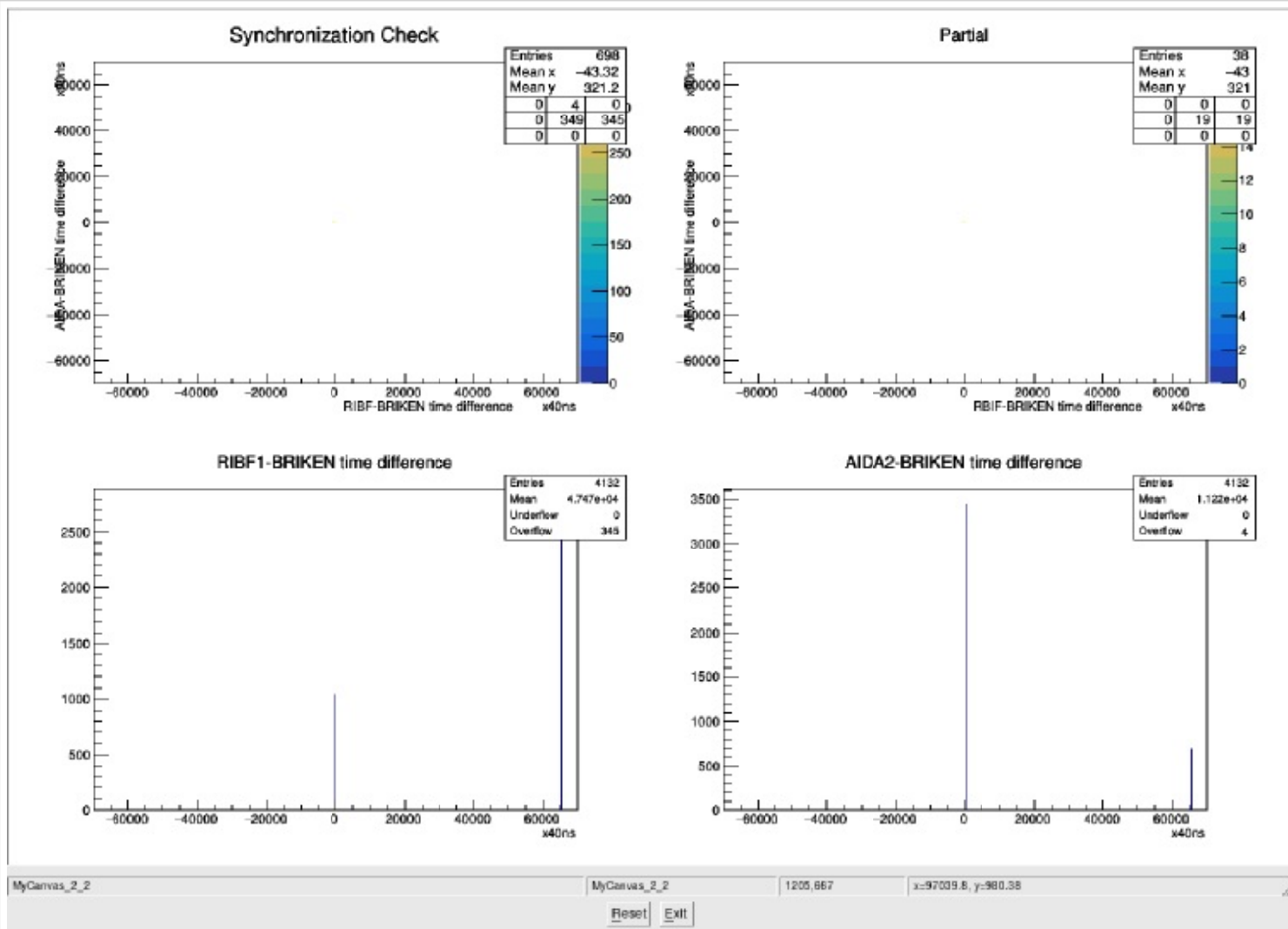
Current File: 161130\_1120\_1230.root

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 x +




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

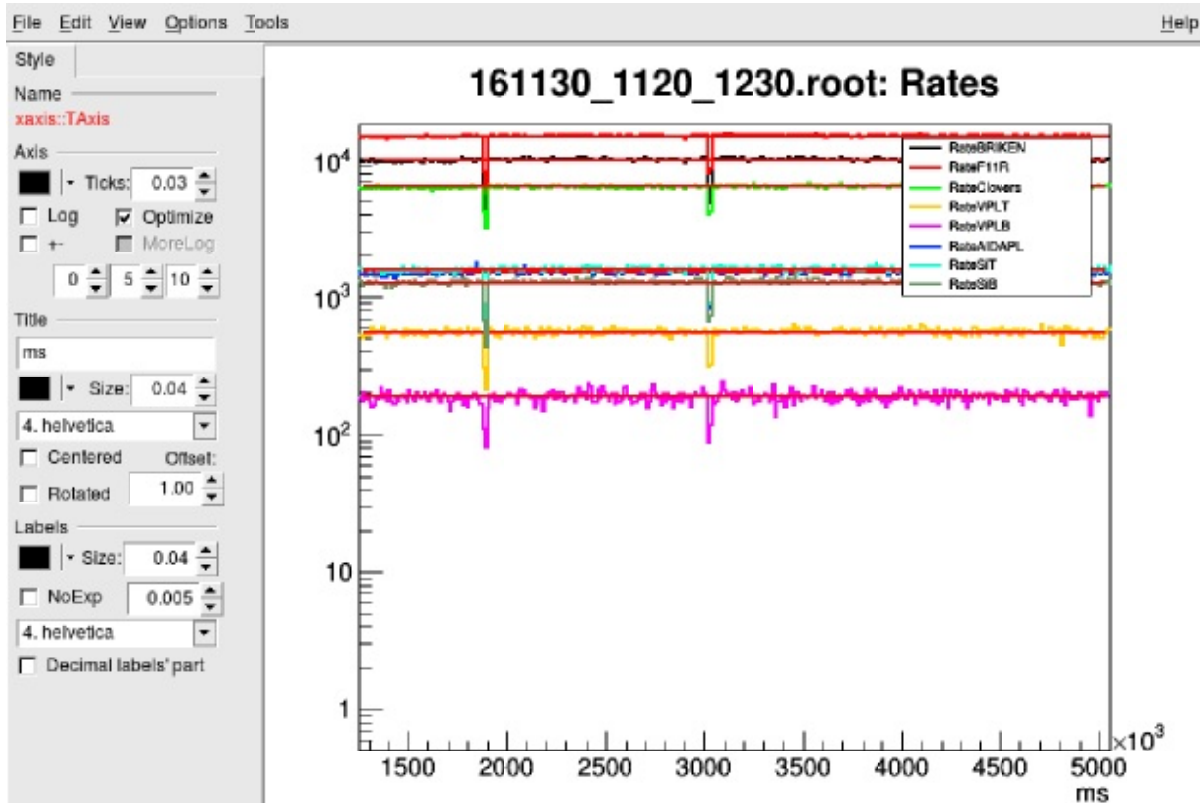
Preset Program

Brightness Backlight White Balance Output Refresh Rate Resolution Streaming Method

In case of no audio, please click here.  
<http://sonasonic.biz/netava/network/support/info.html>

Running in IPv4 mode.

Attachment 3: SyncCheckScreen20161130\_1233.png



[0]	func	622,67	(x=5.40588e+06, t=14809.7)
-----	------	--------	----------------------------

228	Wed Nov 30 10:03:54 2016	BRIKEN collaboration	run JUNK file		RUN   BRIKEN	171	40Mg (41Al @F8)		
-----	--------------------------	-------------------------	---------------	--	-----------------	-----	--------------------	--	--

=====  
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		RUN   BRIKEN	170	40Mg (41Al @F8) beam back		
-----	--------------------------	-------------------------	---------------	--	-----------------	-----	---------------------------------	--	--

=====  
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