

[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 Autumn 2015](#) | [Transmutation Autumn 2016](#) | [RIBF123](#)

RIBF123, Page 3 of 12

Logged in as "BRIKEN collaboration"



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

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

235 Entries

Goto page [Previous](#) [1](#), [2](#), [3](#), [4](#) ... [10](#), [11](#), [12](#) [Next](#) [All](#)

ID	Date	Author	Subject	Type	Category	RUN Number	Beam	Energy	Target
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
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:
1=(0.5mm W+1mm Al), 2=(0.3mm W+1mm Al), 3=(1mm W +1mm Al)
1. OUT
2. IN
3. IN

=====  COMMENTS  =====
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

=====  END  =====
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

=====  END  =====
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
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	41A1		
-----	--------------------------	----------------------	-----------------	--------------	----	------	--	--

===== 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.
```

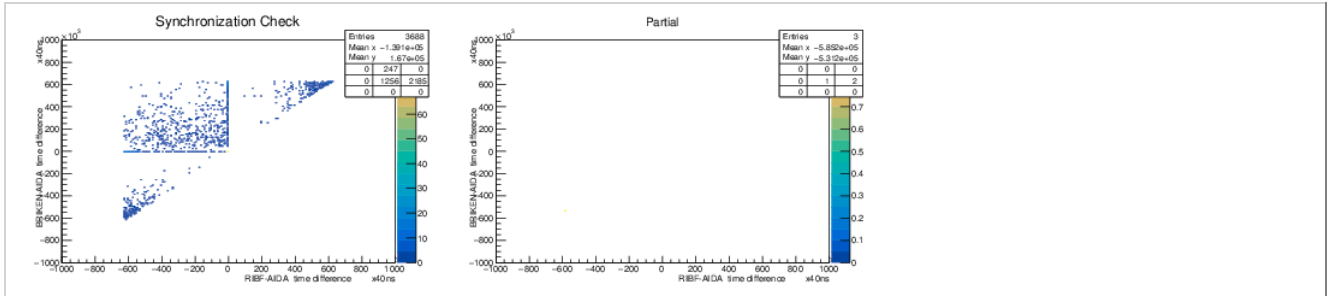
```
07:15 Two peaks appeared in the syncMonitor for Ribf-AIDA. It was after the refilling of Liquid Ni. Not clear if the possible sync problem affected the measurements.
```

```
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
```

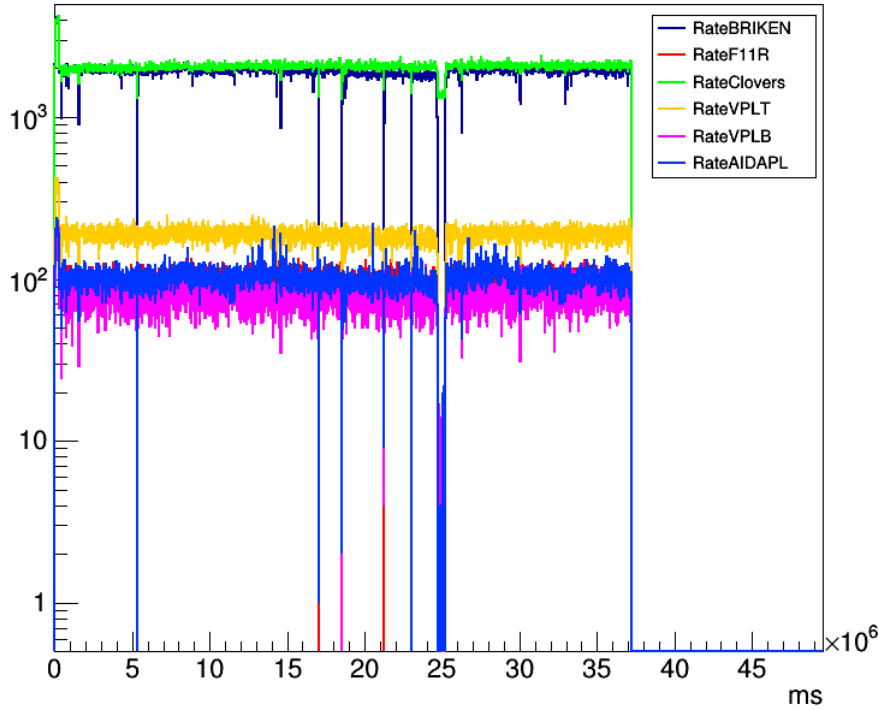
```
===== END =====
Date 2016/11/27
BRIKEN run : 023
BRIKEN stop : 06:25
ROOT online : 161126_2004_020_023.root
AIDA run : R10-211
AIDA stop : 06:25
BigRIPS RUN :
```

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	41A1	
-----	--------------------------	----------------------	-----------------	--------------	---------	------	--

```

===== 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: 41A1
--- 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!?)

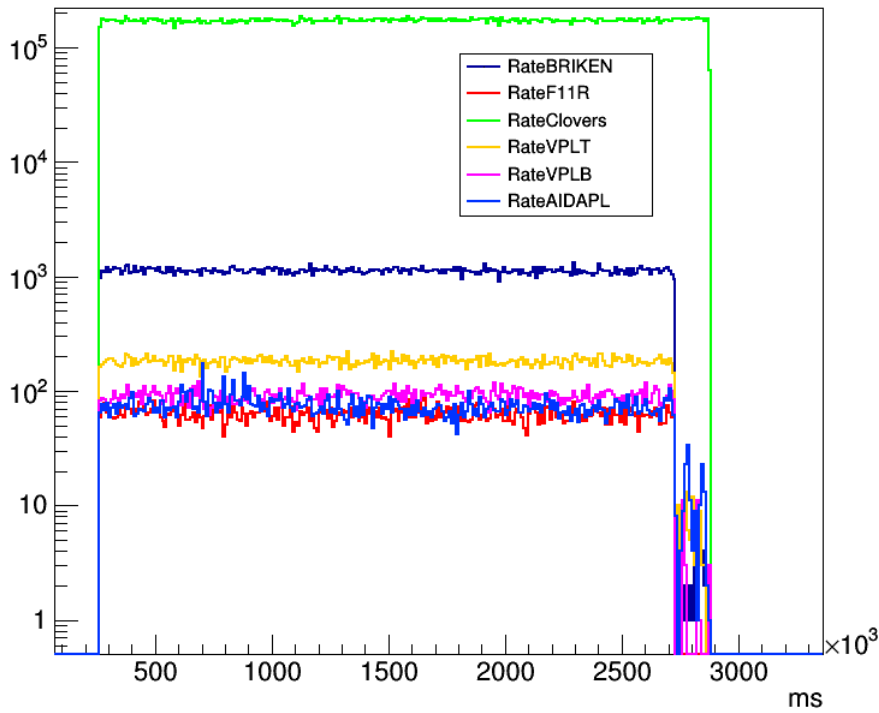
----- Rates -----
BRIKEN : 1.12118e+02 cps
F11R   : 6.26962 cps
Clovers : 1.72406e+04 cps
VPLT   : 1.82165e+01 cps
VPLB   : 9.08055 cps
AIDAPL : 7.42954 cps

===== 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 :

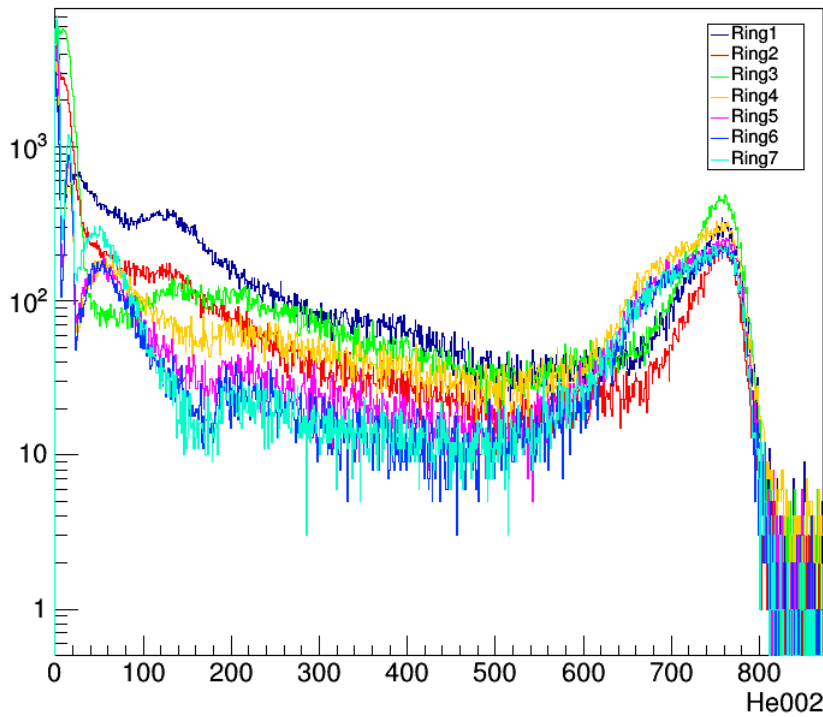
Attachment 1: 161126_1823_016_019_Rates.png

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 BRIKEN collaboration run Configuration RUN | BRIKEN 000-015 41A1

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

08:45
Beam Off for intervention

08:50

Degrader 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:

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.

Degrader:

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

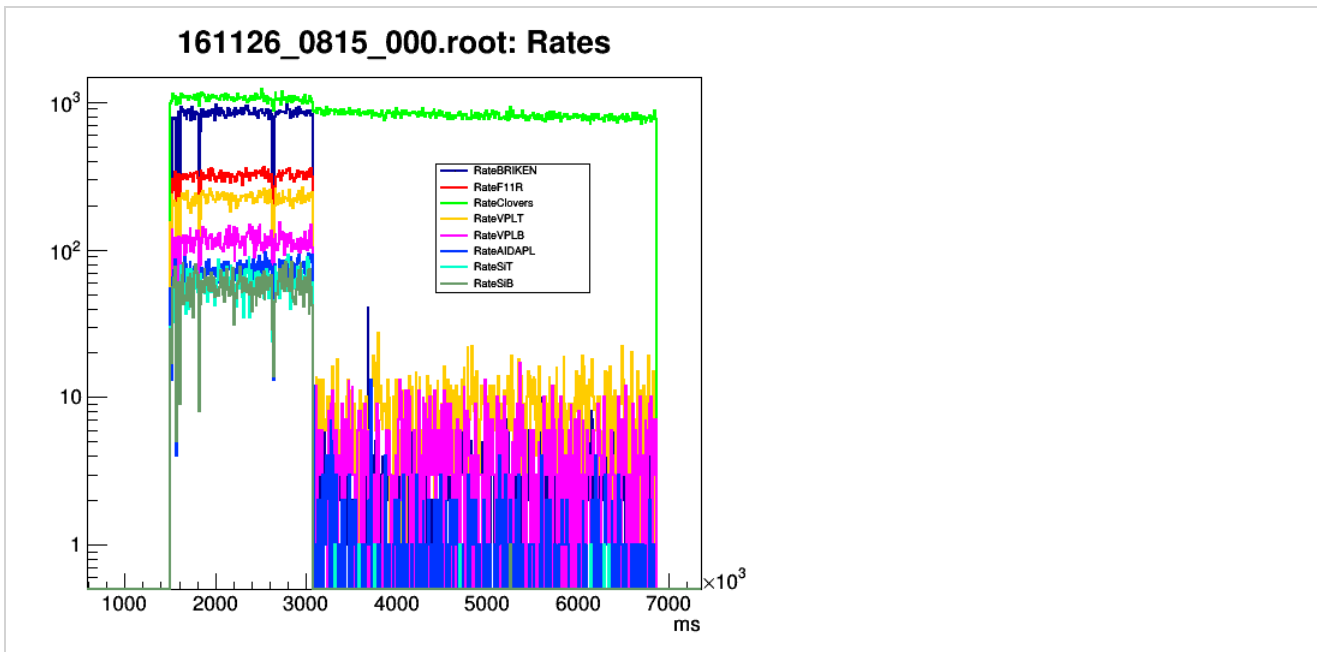
161126_1308_002.root (online)

Rates:

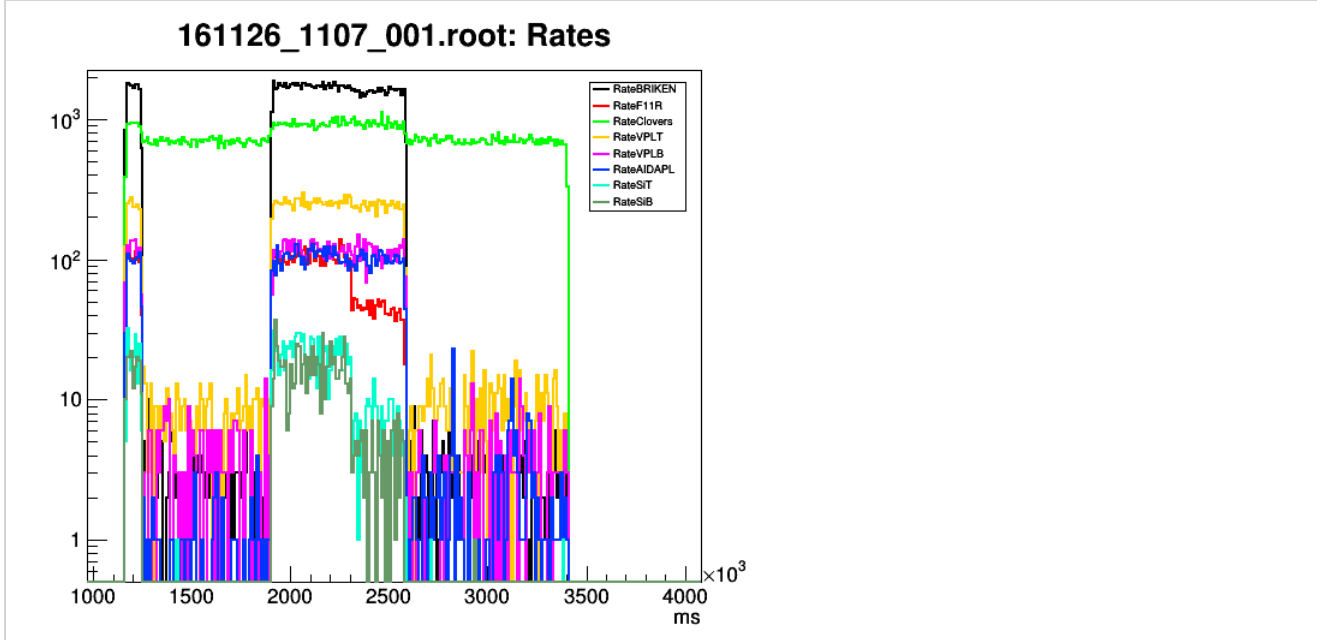
F11R : 4.2 & 1.0 & 9.3 Hz

BRIKEN : 150 & 12.9 & 160 Hz

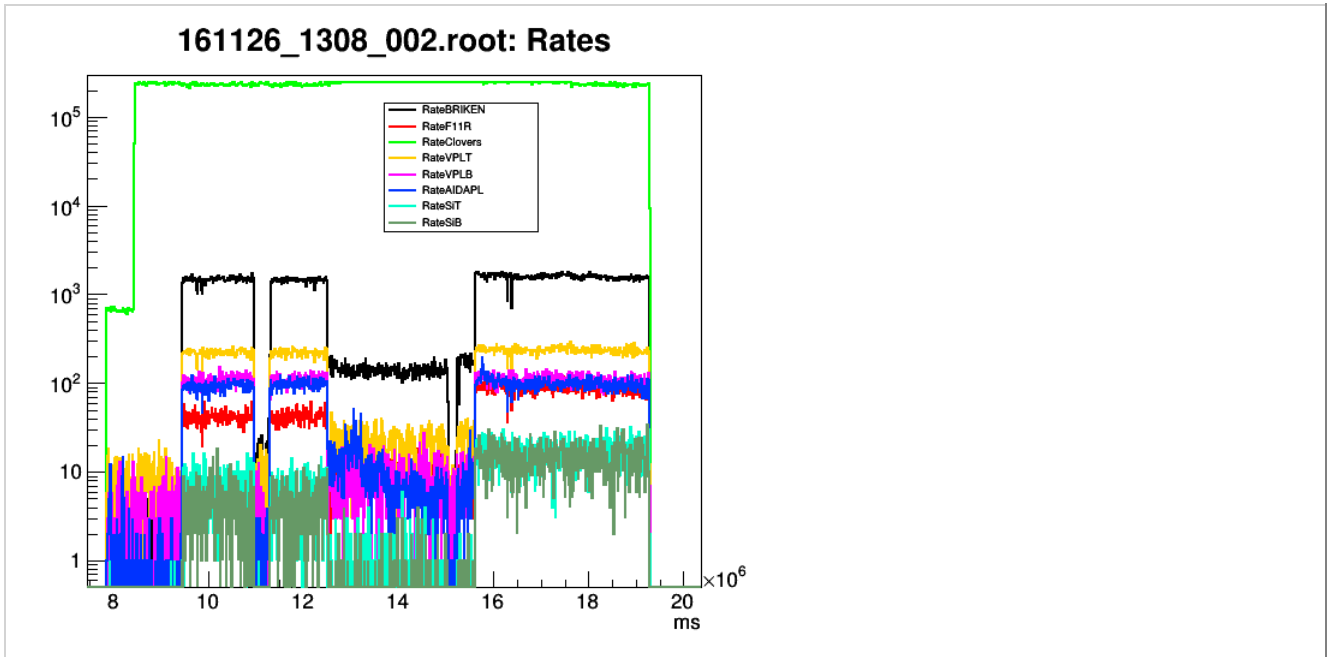
Attachment 1: [161126_0815_000_Rates.png](#)



Attachment 2: [161126_1107_001_Rates.png](#)



Attachment 3: [161126_1308_002_Rates.png](#)



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

===== 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		
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```

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					
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```

Manual LN2 filling started at 10:25
    
```

Goto page [Previous](#) [1](#), [2](#), [3](#), [4](#) ... [10](#), [11](#), [12](#) [Next](#) [All](#)

ELOG V2.6.4-1795