

leTrg

LE Time (ns)

4000
3500
3000
2500
2000
1500
1000
500
0

0

20

40

60

80

100

Tray #

120

leTrg	
Entries	2051947
Mean x	62.41
Mean y	1043
RMS x	35.54
RMS y	130.1

800

600

400

200

0

Tue Apr 11 15:06:07 2017

Run# 17099020

tray_le_1

count

10^3
 10^2
10
1

Entries	16239
Mean	1057
RMS	127.5
χ^2 / ndf	3599 / 80
Constant	2864 ± 41.6
MPV	1045 ± 0.1
Sigma	4.456 ± 0.056

0 500 1000 1500 2000 2500 3000 3500 4000

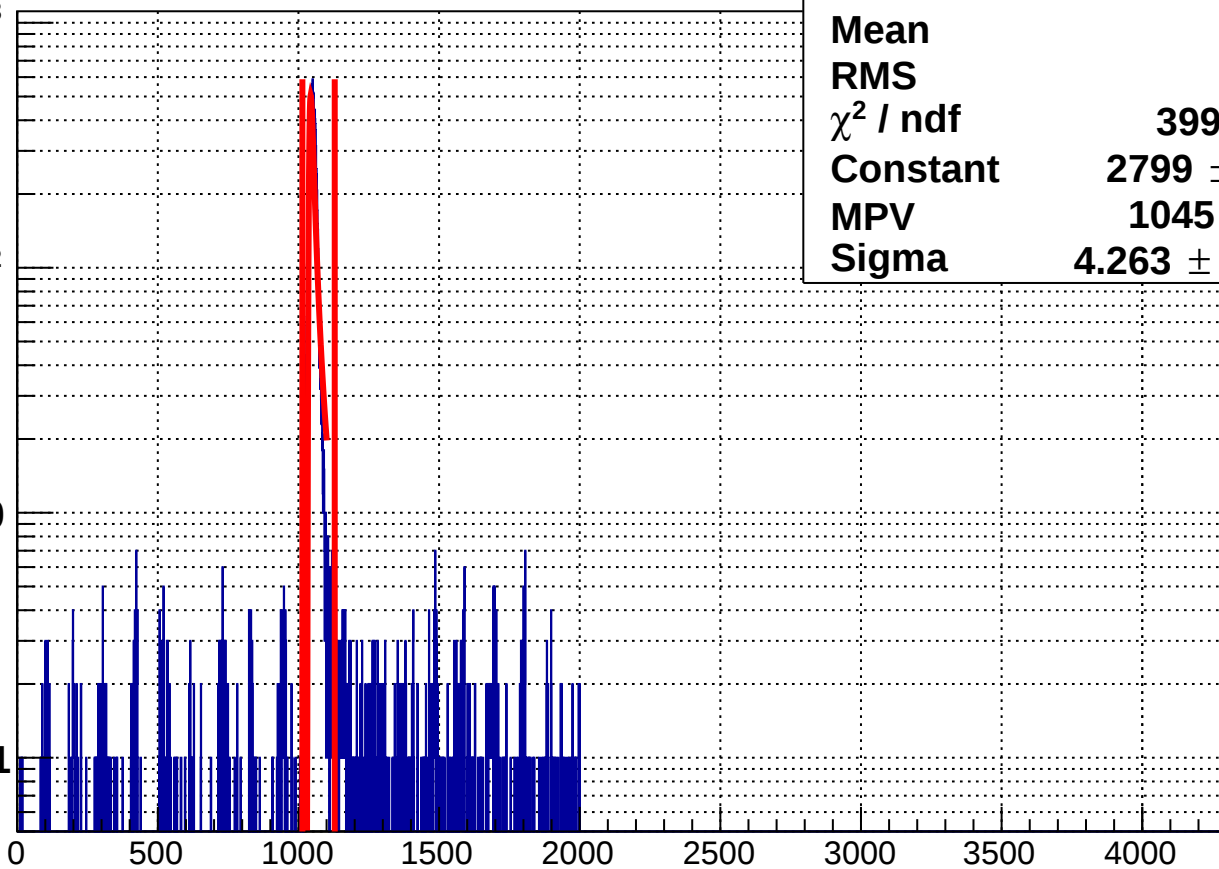
LE time (ns)

Tue Apr 11 15:06:08 2017

Run# 17099020

count

10^3
 10^2
10
1



tray_le_2

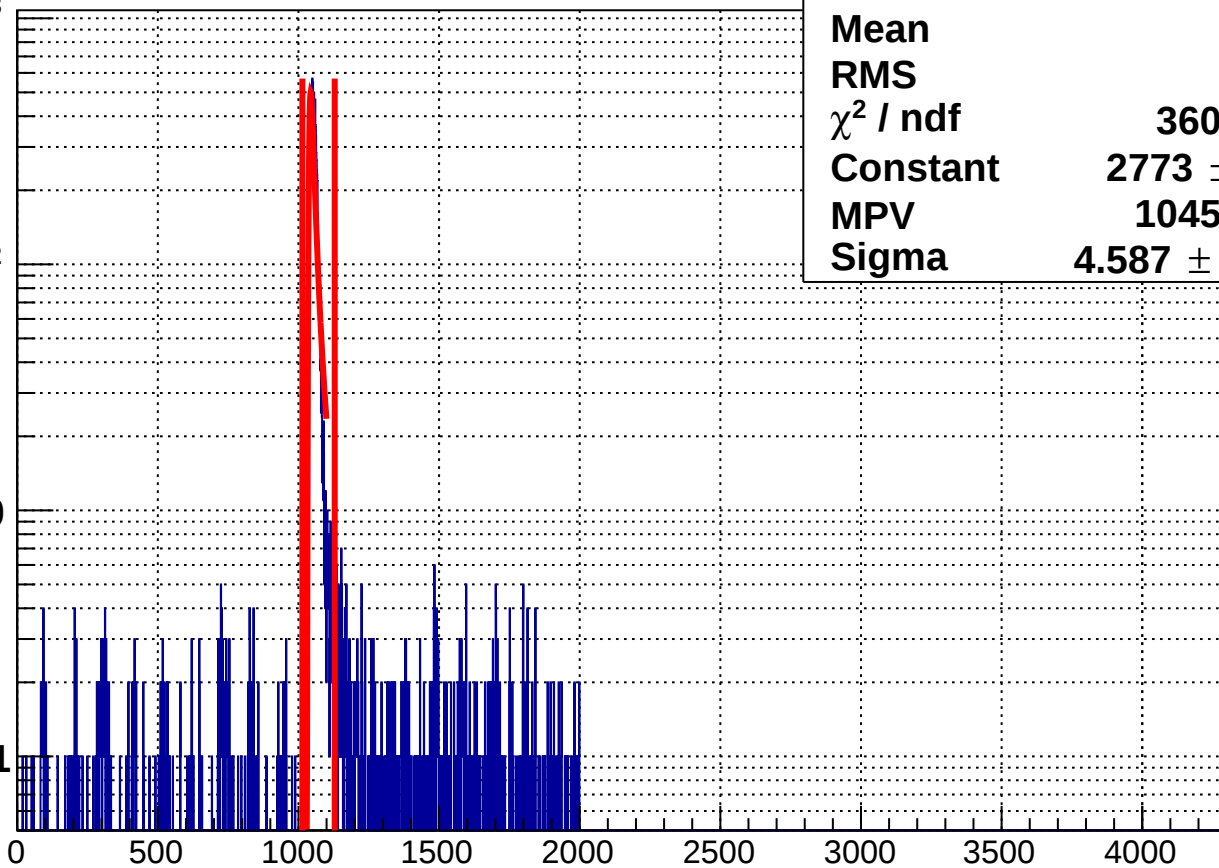
Entries	15917
Mean	1057
RMS	126.4
χ^2 / ndf	3998 / 83
Constant	2799 ± 41.2
MPV	1045 ± 0.2
Sigma	4.263 ± 0.052

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1



tray_le_3

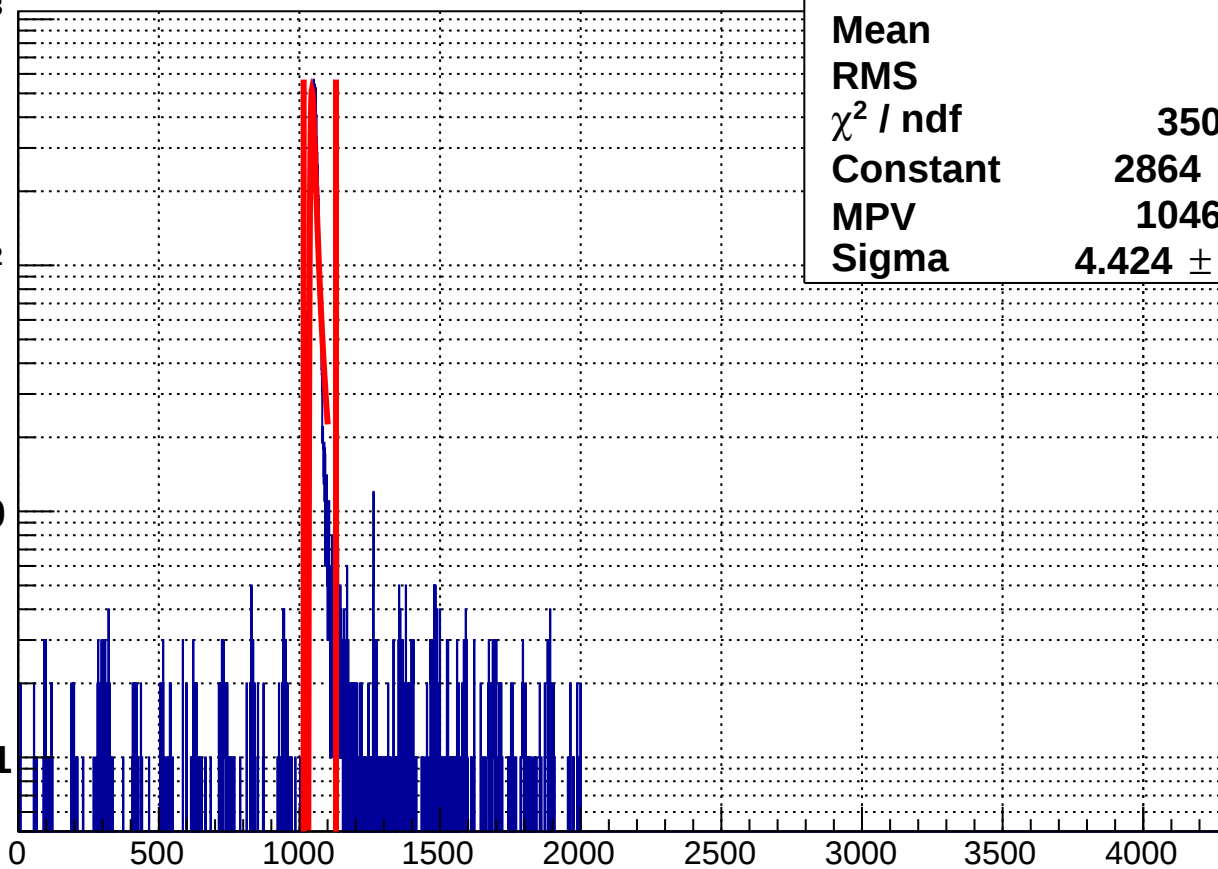
Entries	16159
Mean	1058
RMS	127.9
χ^2 / ndf	3600 / 82
Constant	2773 ± 39.5
MPV	1045 ± 0.1
Sigma	4.587 ± 0.055

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1



tray_le_4

Entries	16026
Mean	1059
RMS	123
χ^2 / ndf	3504 / 83
Constant	2864 ± 42.1
MPV	1046 ± 0.1
Sigma	4.424 ± 0.056

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

tray_le_5

Entries	15990
Mean	1065
RMS	125.7
χ^2 / ndf	3523 / 80
Constant	2852 ± 41.6
MPV	1052 ± 0.1
Sigma	4.43 ± 0.06

Tue Apr 11 15:06:08 2017

Run# 17099020

tray_le_6

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

15836

Mean

1067

RMS

123.6

χ^2 / ndf

2988 / 76

Constant

2792 ± 39.6

MPV

1052 ± 0.1

Sigma

4.735 ± 0.058

Run# 17099020

tray_le_7

count

10^3
 10^2
10
1

Entries	16031
Mean	1069
RMS	131.5
χ^2 / ndf	3599 / 81
Constant	2957 ± 42.0
MPV	1053 ± 0.1
Sigma	4.197 ± 0.049

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

Run# 17099020

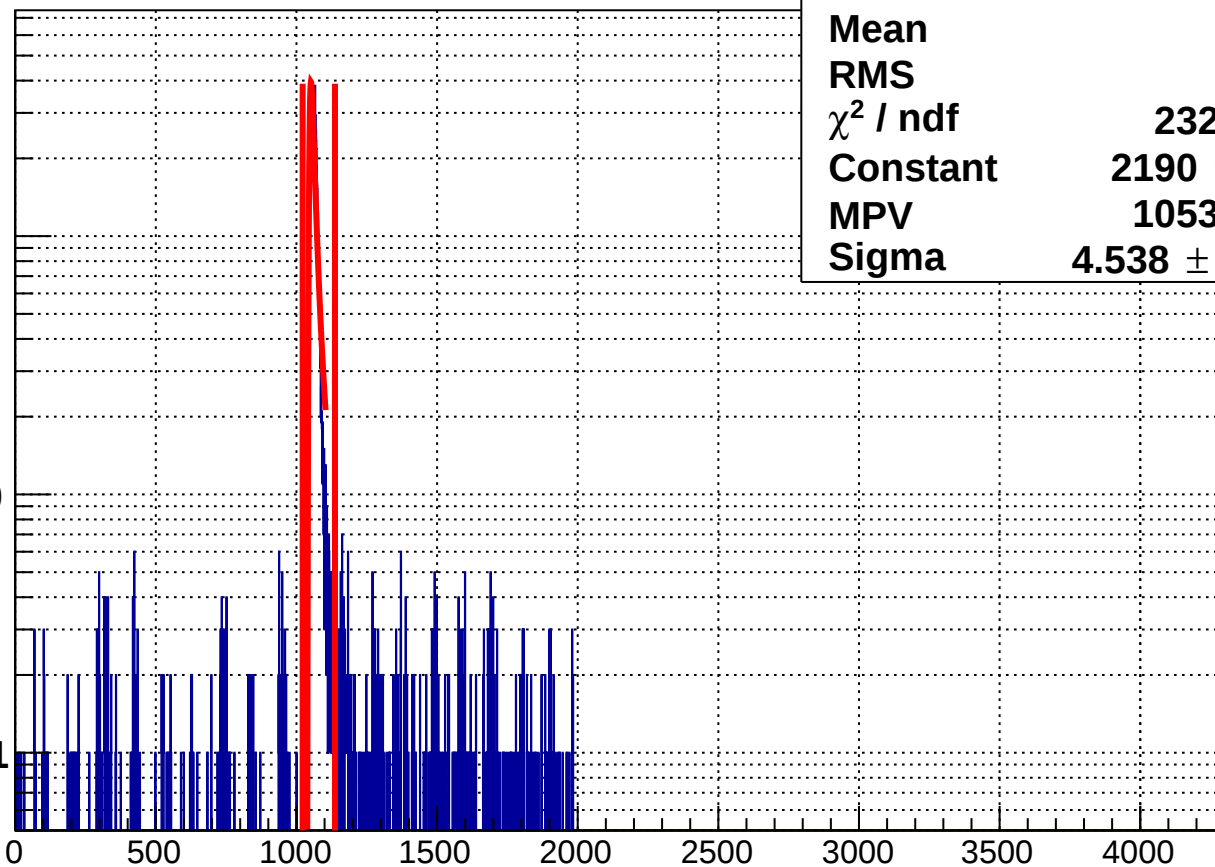
tray_le_8

count

10^2

10

1



Entries	12074
Mean	1065
RMS	127.9
χ^2 / ndf	2321 / 74
Constant	2190 ± 35.1
MPV	1053 ± 0.1
Sigma	4.538 ± 0.062

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

tray_le_9

Entries

15697

Mean

1066

RMS

125.8

χ^2 / ndf

3530 / 84

Constant

2701 ± 39.0

MPV

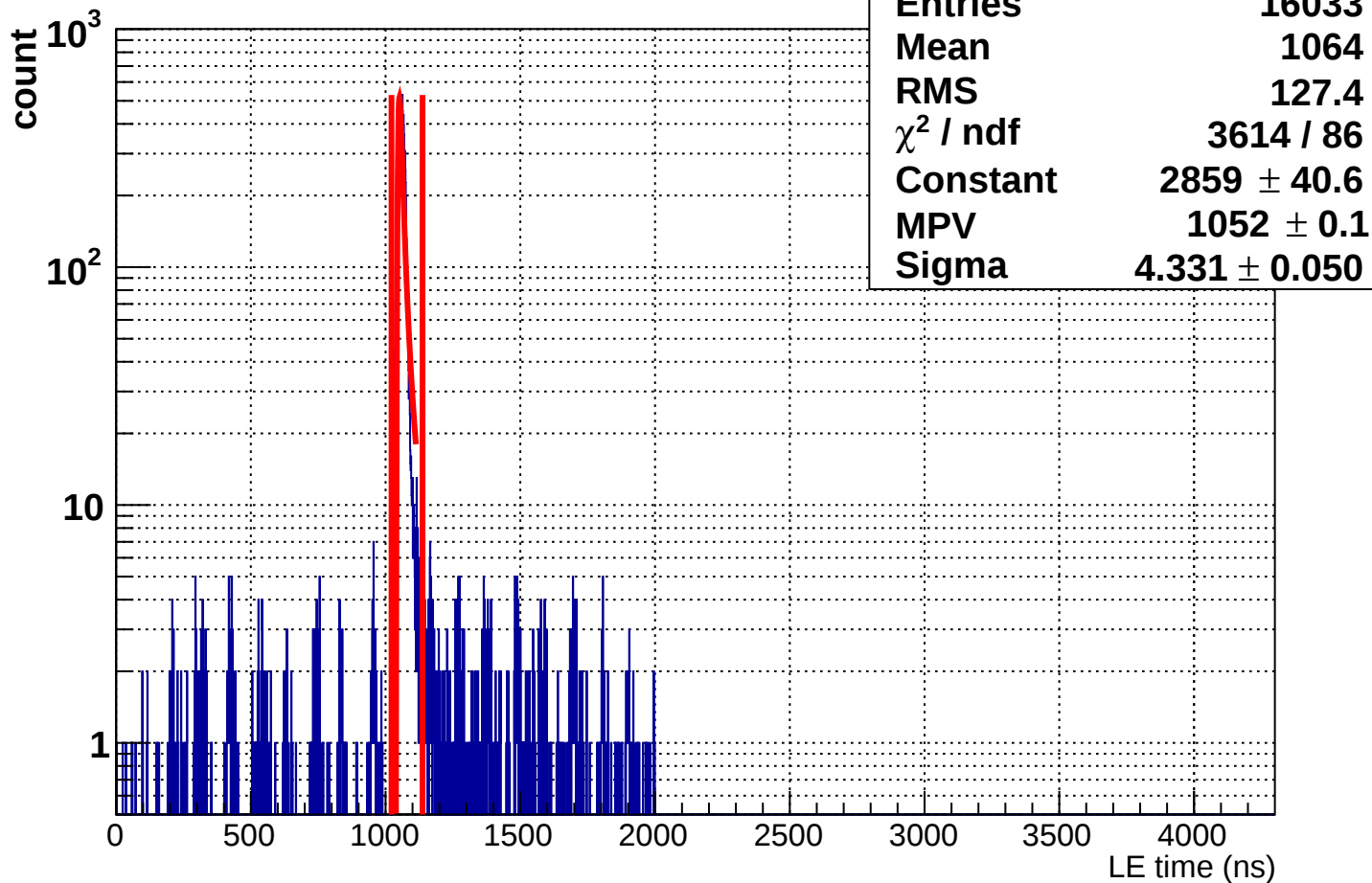
1052 ± 0.1

Sigma

4.546 ± 0.055

Run# 17099020

tray_le_10

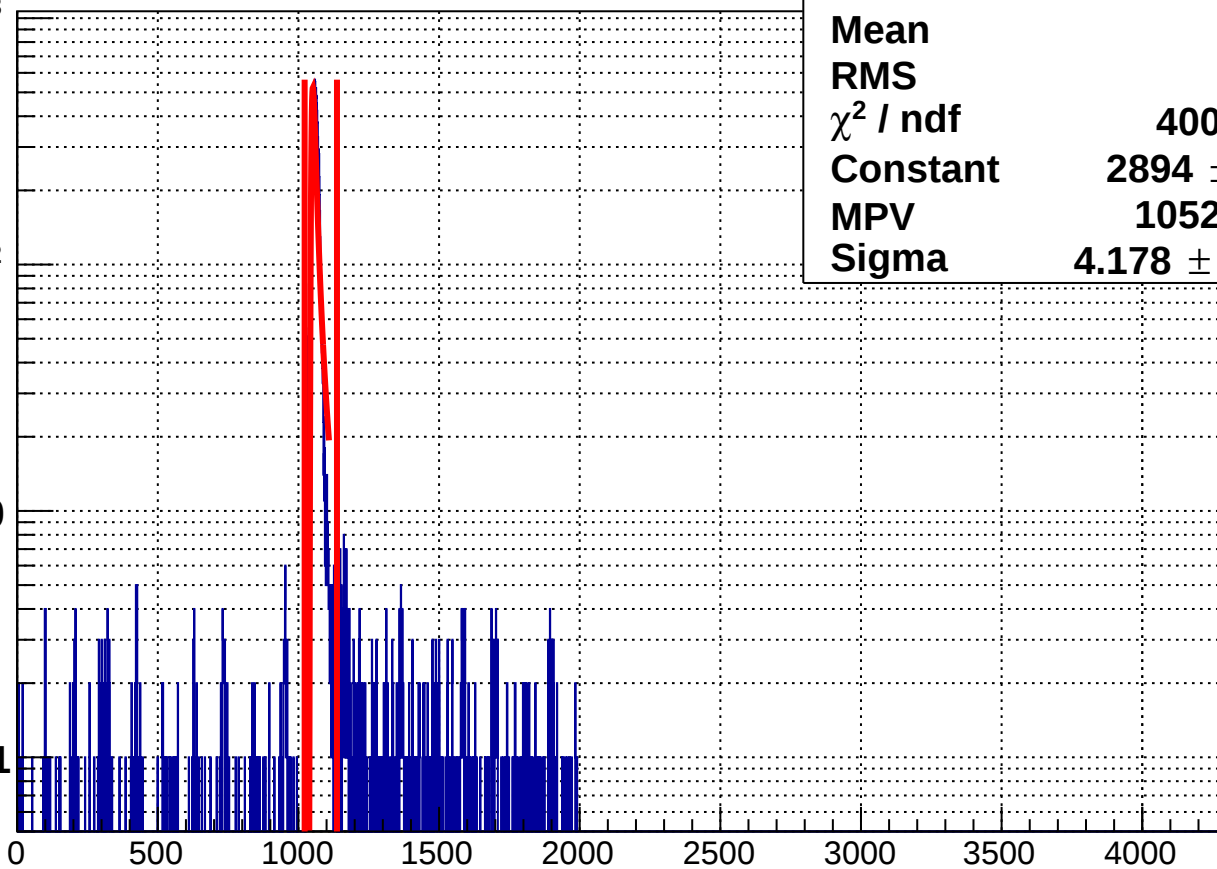


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Run# 17099020

count

10^3
 10^2
10
1



LE time (ns)

tray_le_11

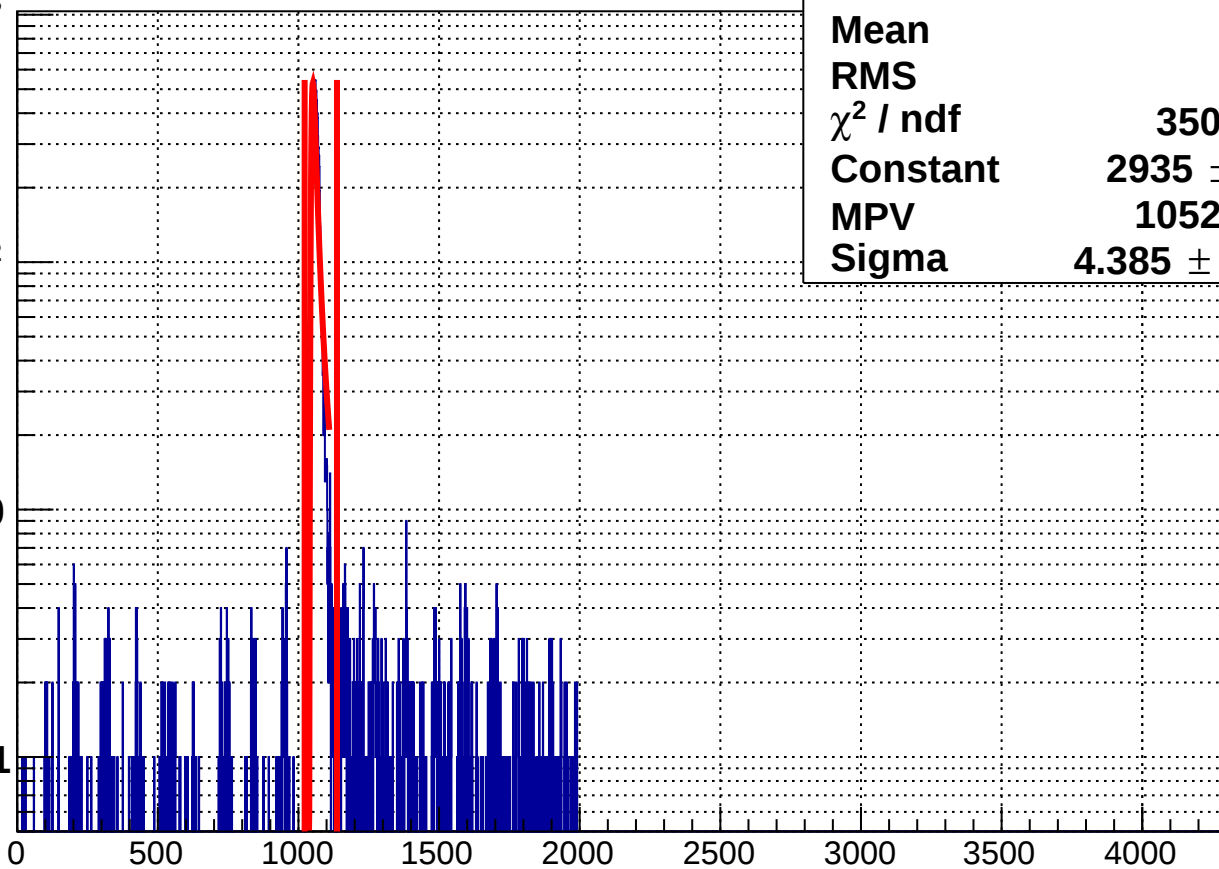
Entries	16079
Mean	1064
RMS	126.1
χ^2 / ndf	4004 / 82
Constant	2894 ± 41.2
MPV	1052 ± 0.1
Sigma	4.178 ± 0.049

Tue Apr 11 15:06:08 2017

Run# 17099020

count

10^3
 10^2
10
1



tray_le_12

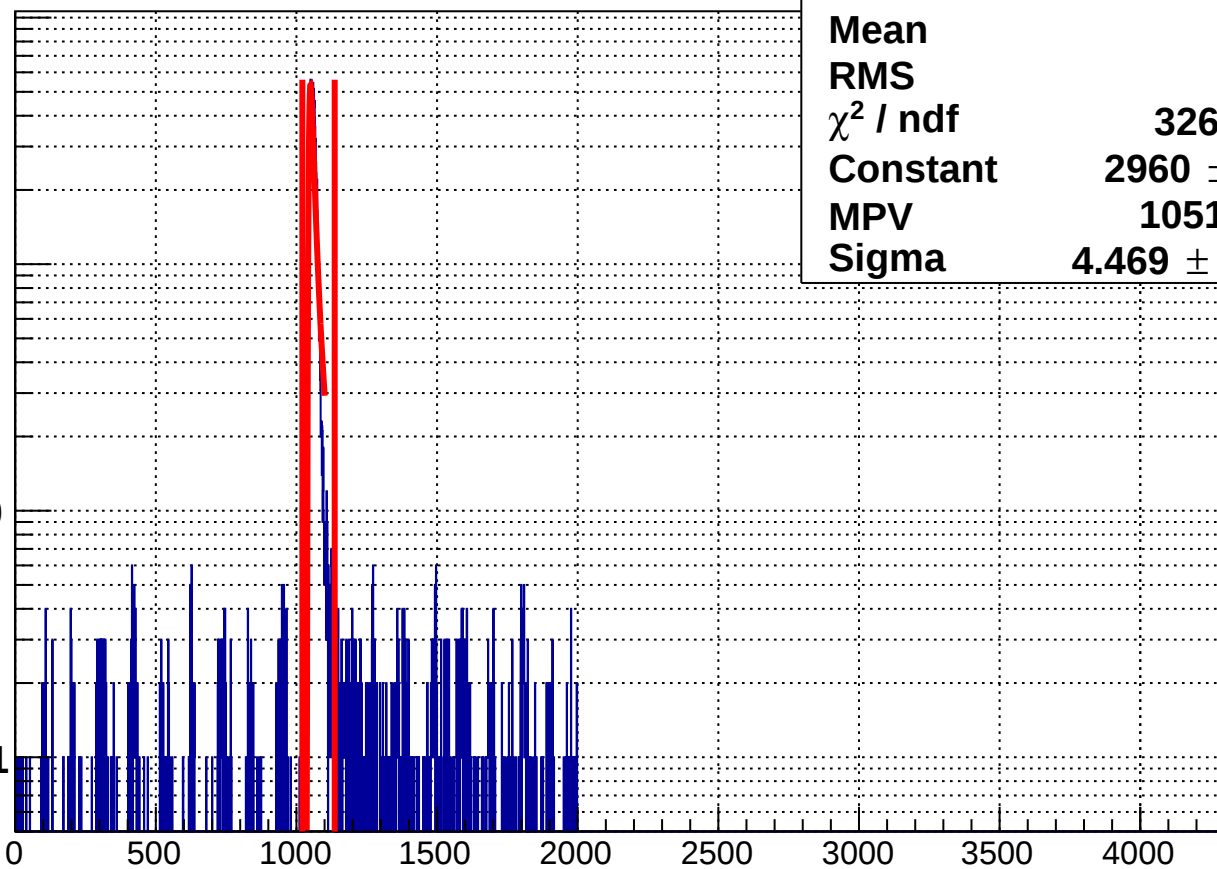
Entries	16318
Mean	1067
RMS	128.6
χ^2 / ndf	3501 / 82
Constant	2935 ± 39.9
MPV	1052 ± 0.1
Sigma	4.385 ± 0.049

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1



tray_le_13

Entries	16249
Mean	1063
RMS	130.2
χ^2 / ndf	3266 / 76
Constant	2960 ± 43.2
MPV	1051 ± 0.1
Sigma	4.469 ± 0.057

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

16132

Mean

1064

RMS

128.8

χ^2 / ndf

3231 / 76

Constant

2848 ± 41.8

MPV

1051 ± 0.1

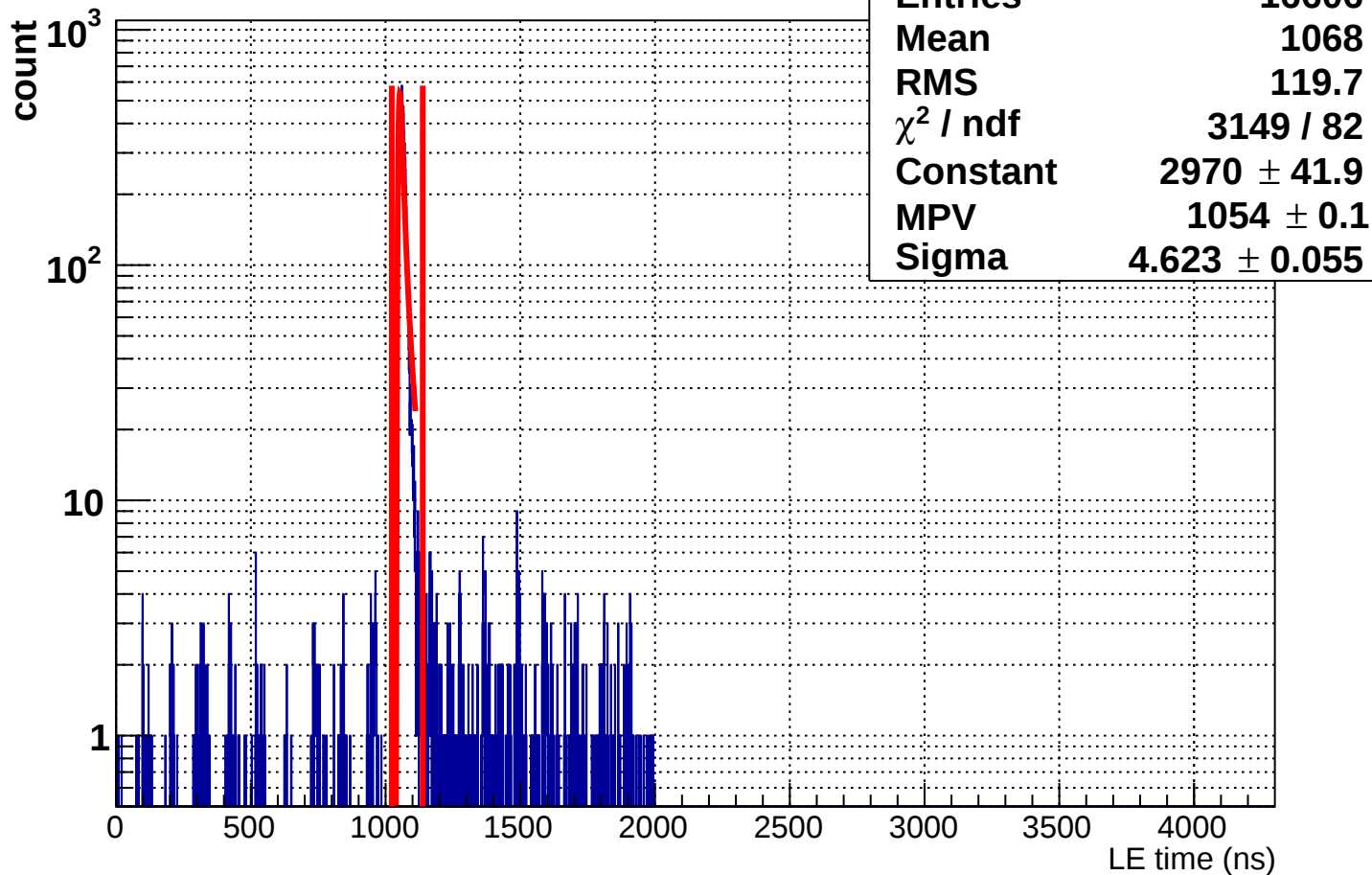
Sigma

4.618 ± 0.059

tray_le_14

Run# 17099020

tray_le_15

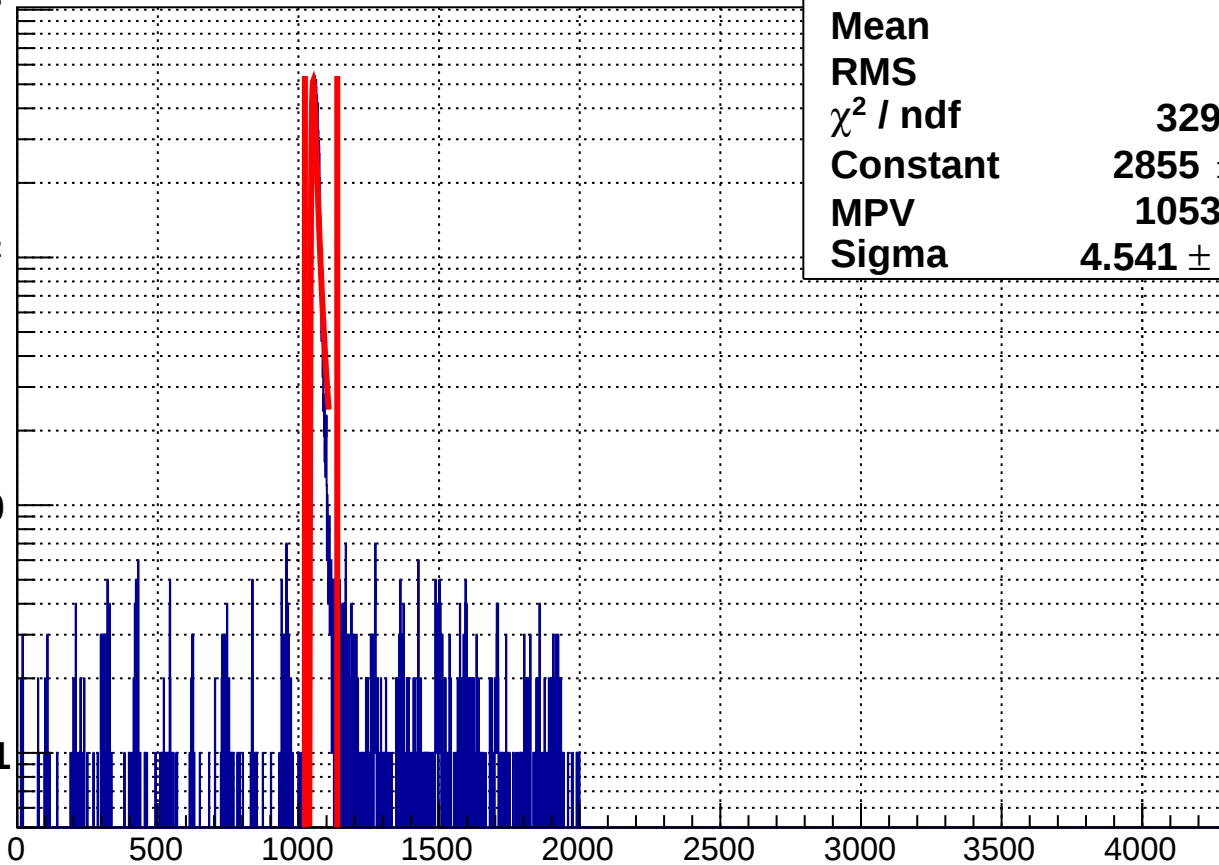


Tue Apr 11 15:06:08 2017

Run# 17099020

count

10^3
 10^2
10
1



tray_le_16

Entries	16061
Mean	1067
RMS	126
χ^2 / ndf	3297 / 80
Constant	2855 ± 40.1
MPV	1053 ± 0.1
Sigma	4.541 ± 0.054

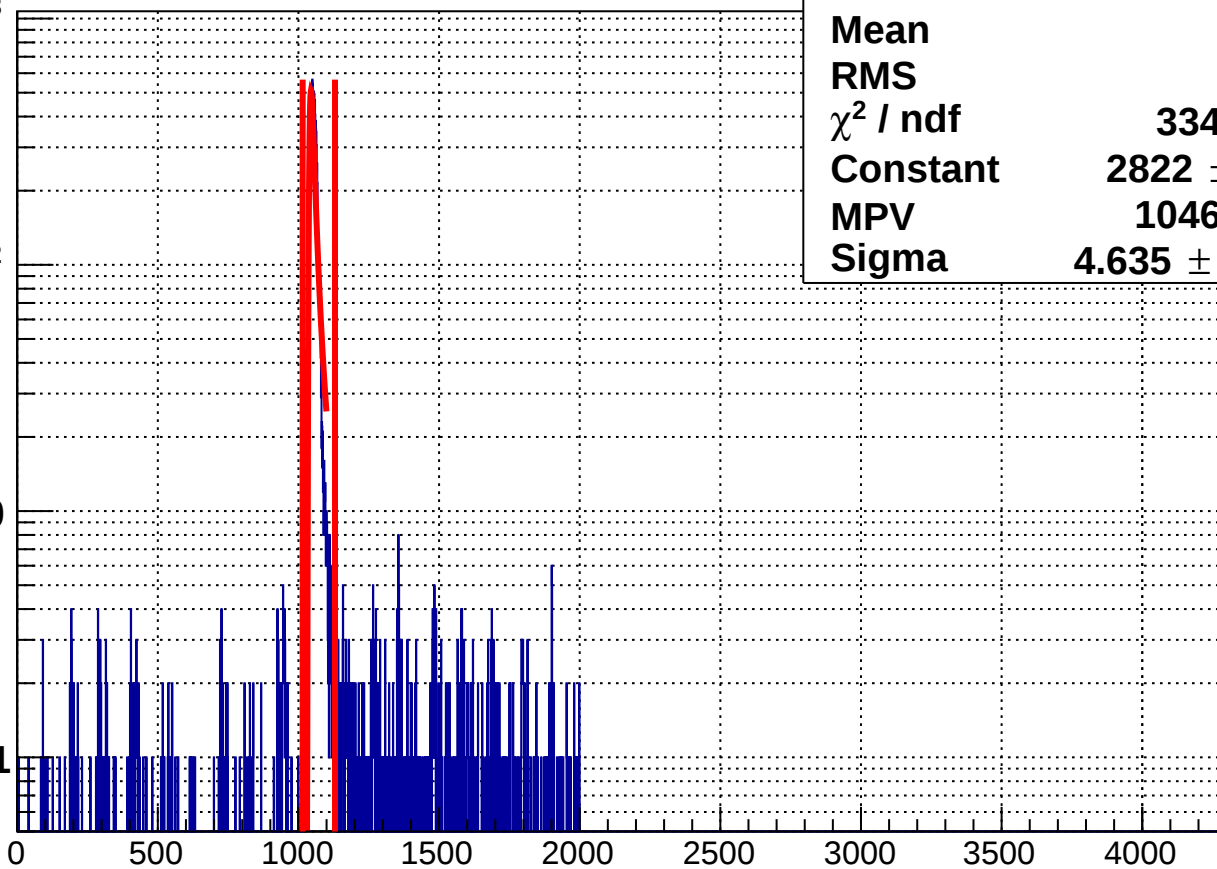
LE time (ns)

Tue Apr 11 15:06:08 2017

Run# 17099020

count

10^3
 10^2
10
1



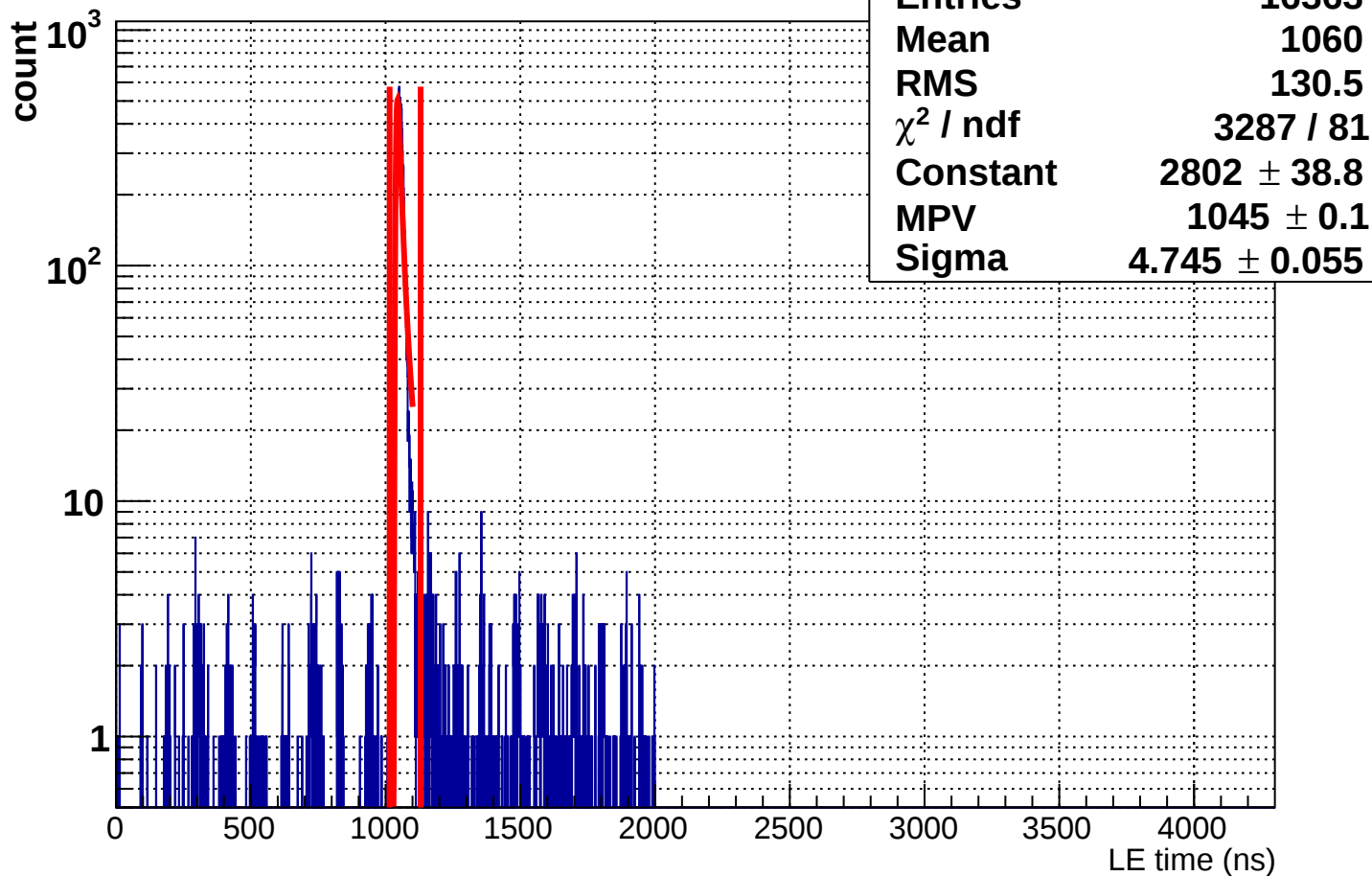
tray_le_17

Entries	16118
Mean	1061
RMS	123.8
χ^2 / ndf	3341 / 79
Constant	2822 ± 40.7
MPV	1046 ± 0.1
Sigma	4.635 ± 0.057

LE time (ns)

Run# 17099020

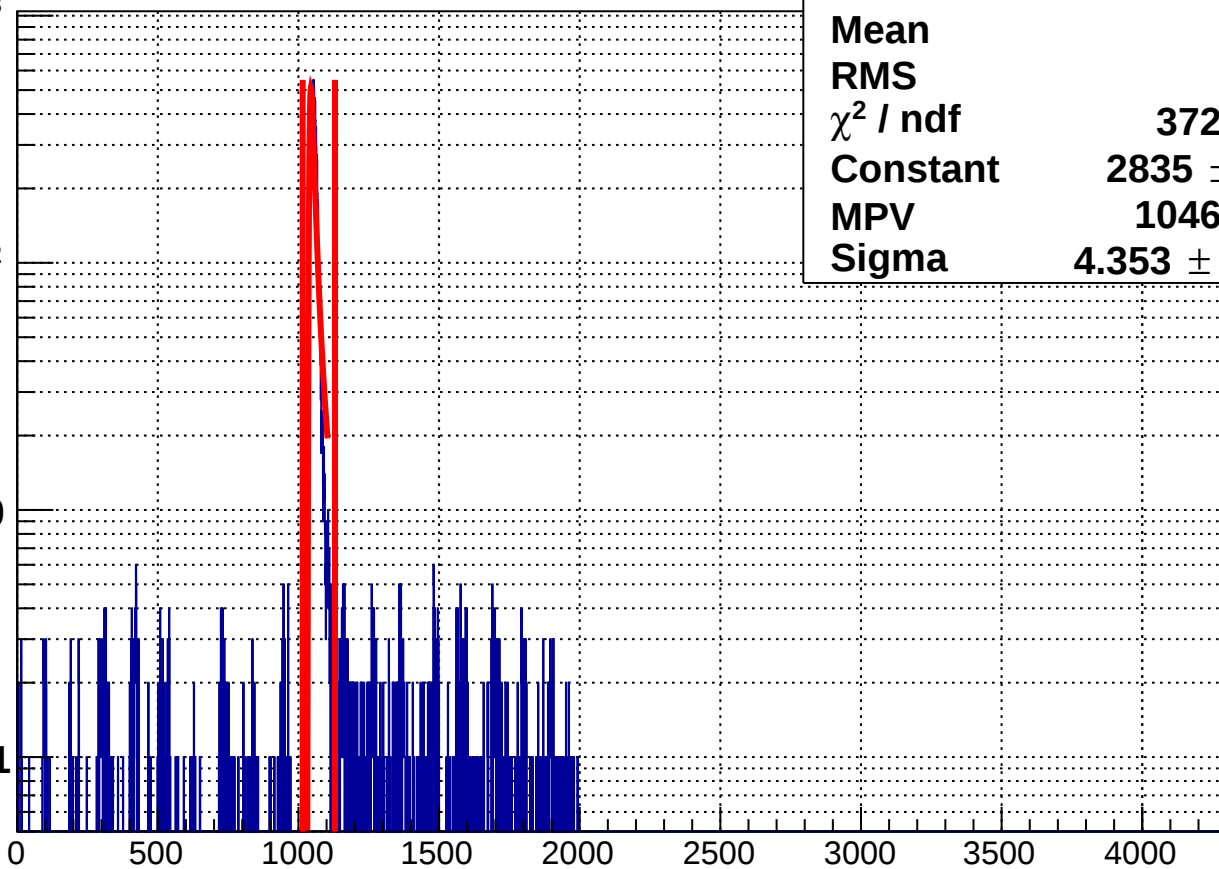
tray_le_18



Run# 17099020

count

10^3
 10^2
10
1



tray_le_19

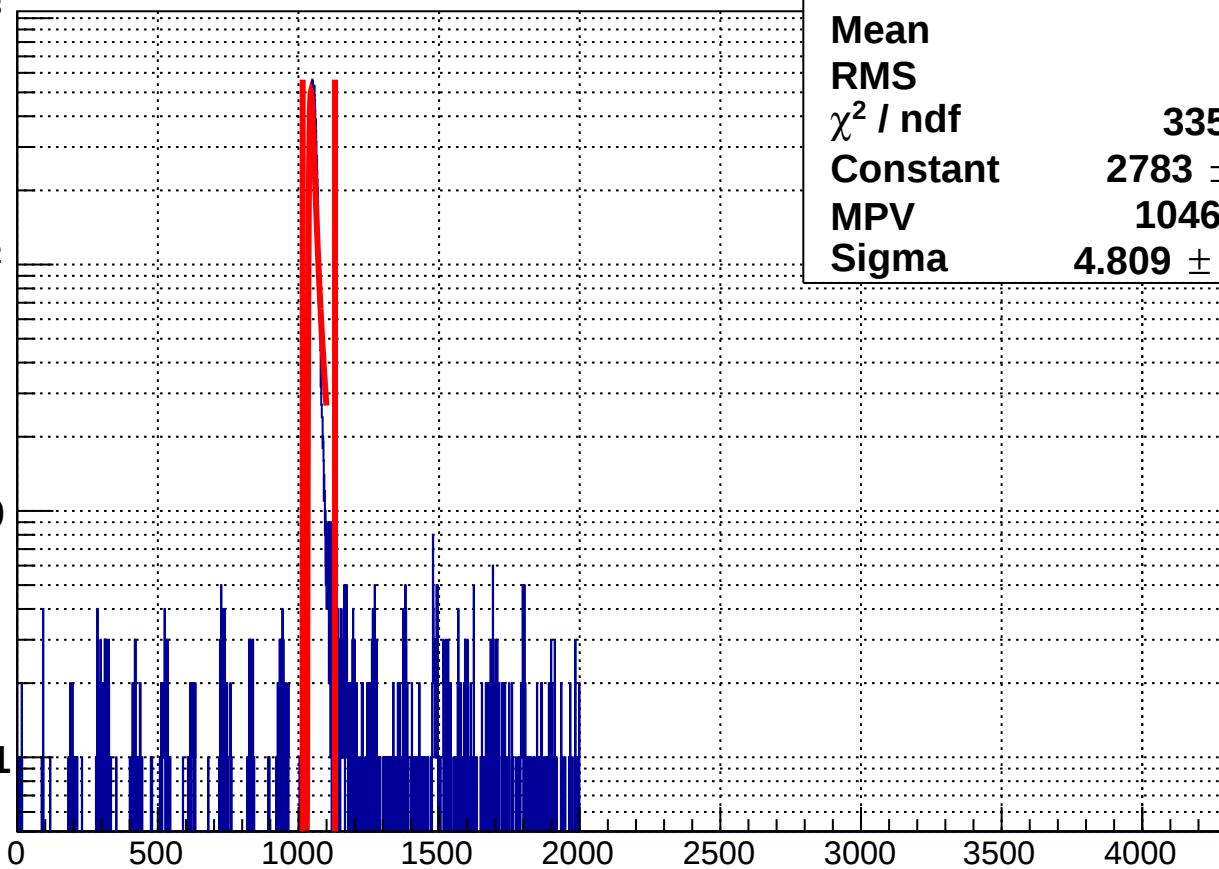
Entries	16068
Mean	1059
RMS	133.3
χ^2 / ndf	3720 / 82
Constant	2835 ± 40.9
MPV	1046 ± 0.1
Sigma	4.353 ± 0.052

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1



tray_le_20

Entries	16410
Mean	1060
RMS	121.1
χ^2 / ndf	3354 / 81
Constant	2783 ± 37.8
MPV	1046 ± 0.1
Sigma	4.809 ± 0.054

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

15793

Mean

987.8

RMS

137.5

χ^2 / ndf

3702 / 82

Constant

2746 ± 41.1

MPV

971.7 ± 0.2

Sigma

4.419 ± 0.057

tray_le_21

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Run# 17099020

count

10^3
 10^2
10
1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

tray_le_22	
Entries	16227
Mean	986.9
RMS	133.3
χ^2 / ndf	3704 / 79
Constant	2872 ± 42.8
MPV	972.1 ± 0.2
Sigma	4.378 ± 0.056

Run# 17099020

tray_le_23

count

10^2

10

1

Entries	11895
Mean	998.3
RMS	170.2
χ^2 / ndf	2861 / 80
Constant	2148 ± 37.4
MPV	972.5 ± 0.2
Sigma	4.081 ± 0.060

0 500 1000 1500 2000 2500 3000 3500 4000

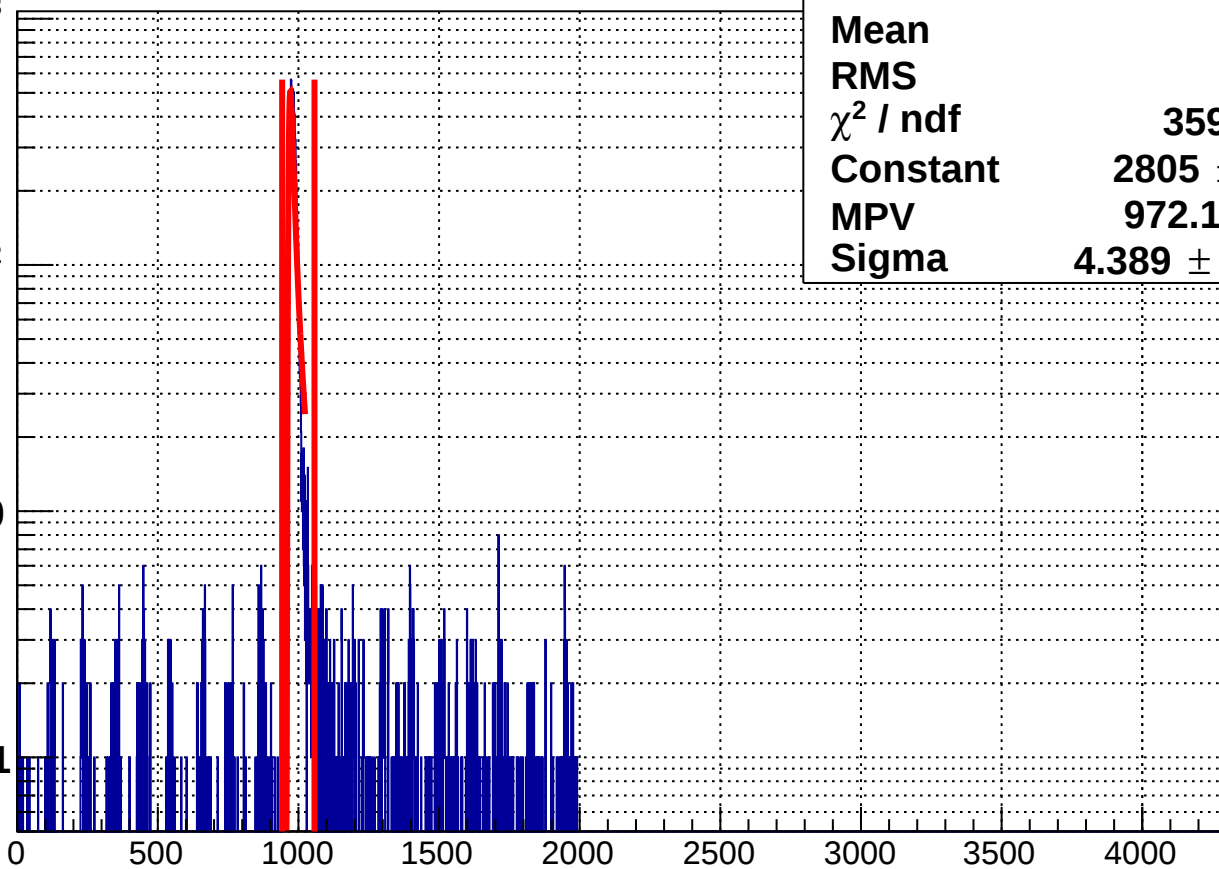
LE time (ns)

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Run# 17099020

count

10^3
 10^2
10
1



tray_le_24

Entries	15822
Mean	988.3
RMS	134.1
χ^2 / ndf	3593 / 81
Constant	2805 ± 43.1
MPV	972.1 ± 0.2
Sigma	4.389 ± 0.059

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

16045

Mean

986.1

RMS

134.4

χ^2 / ndf

3270 / 83

Constant

2797 ± 40.7

MPV

969.4 ± 0.1

Sigma

4.613 ± 0.058

tray_le_25

Run# 17099020

tray_le_26

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

16128

Mean

987.4

RMS

139.6

χ^2 / ndf

1592 / 82

Constant

2391 ± 31.9

MPV

971.4 ± 0.1

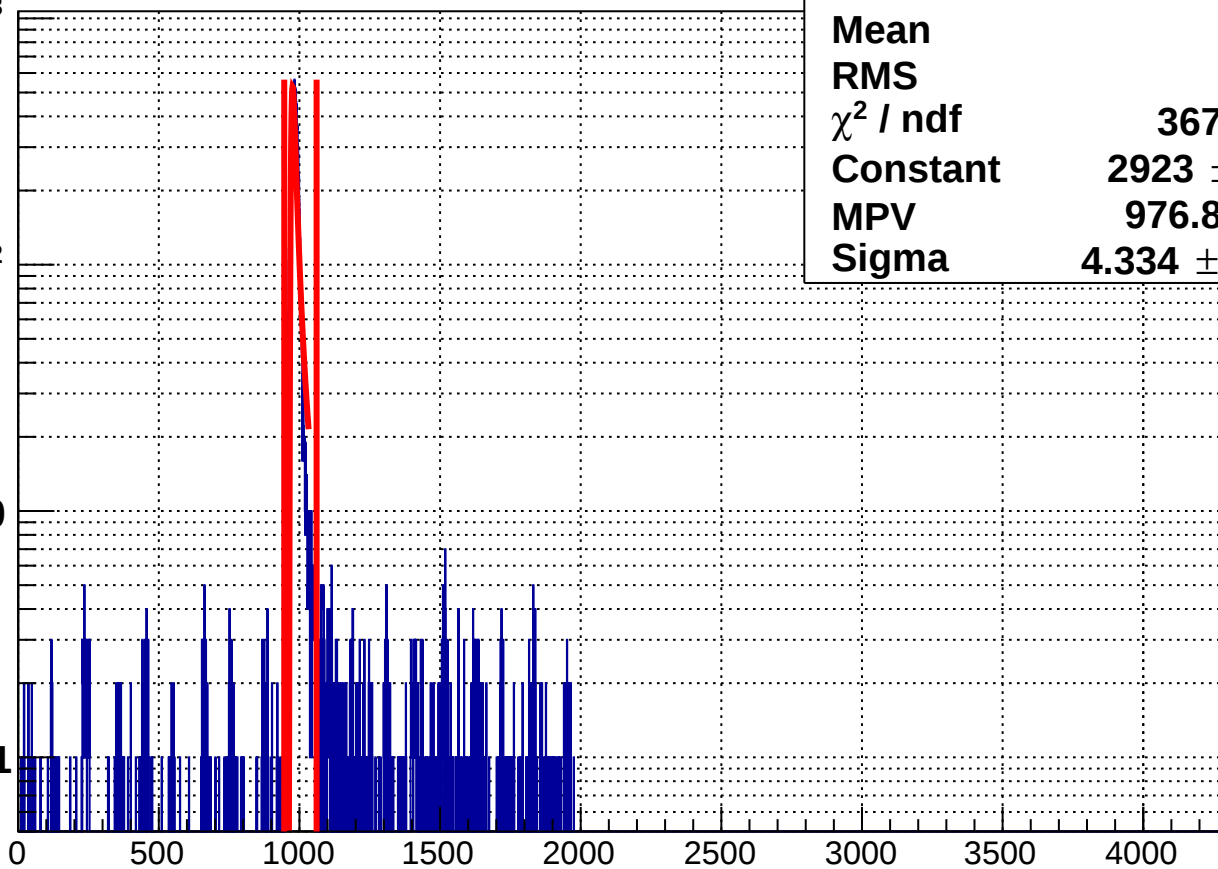
Sigma

6.504 ± 0.079

Run# 17099020

count

10^3
 10^2
10
1



tray_le_27

Entries	16240
Mean	992.9
RMS	129.2
χ^2 / ndf	3672 / 82
Constant	2923 ± 41.4
MPV	976.8 ± 0.1
Sigma	4.334 ± 0.051

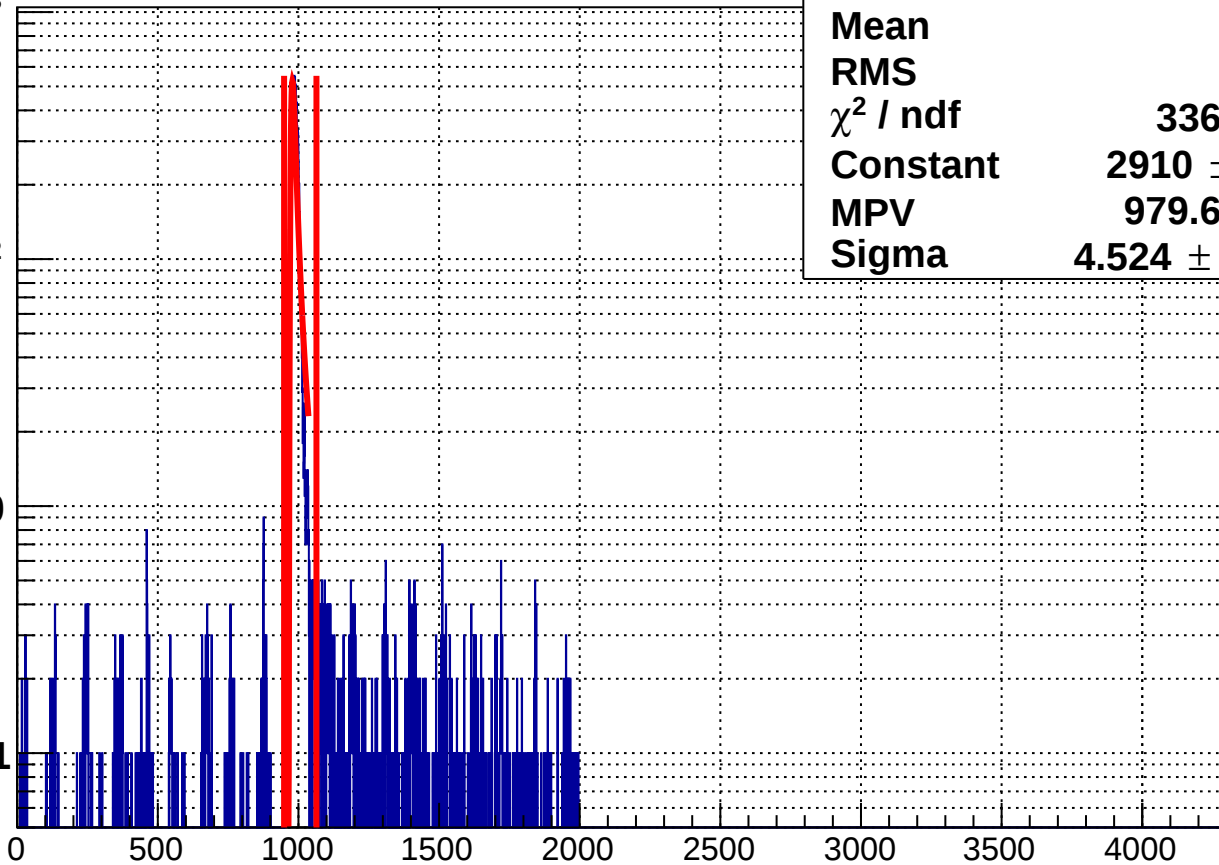
LE time (ns)

Run# 17099020

tray_le_28

count

10^3
 10^2
10
1

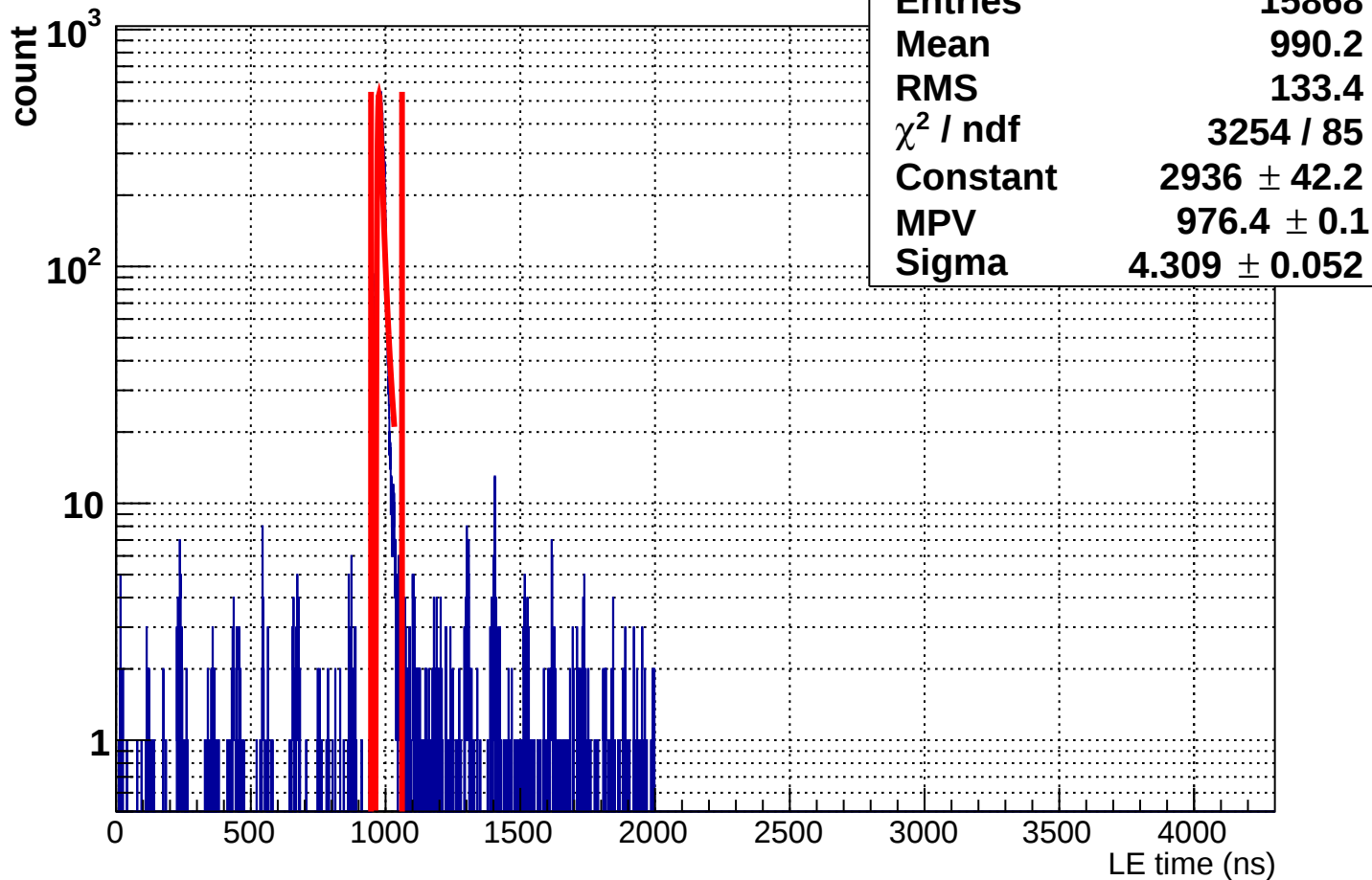


Entries	16343
Mean	995.3
RMS	126
χ^2 / ndf	3364 / 83
Constant	2910 ± 40.8
MPV	979.6 ± 0.1
Sigma	4.524 ± 0.053

LE time (ns)

Run# 17099020

tray_le_29



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Run# 17099020

count

10^3
 10^2
10
1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

16186

Mean

994.4

RMS

132.7

χ^2 / ndf

3775 / 85

Constant

3032 ± 43.1

MPV

976.7 ± 0.1

Sigma

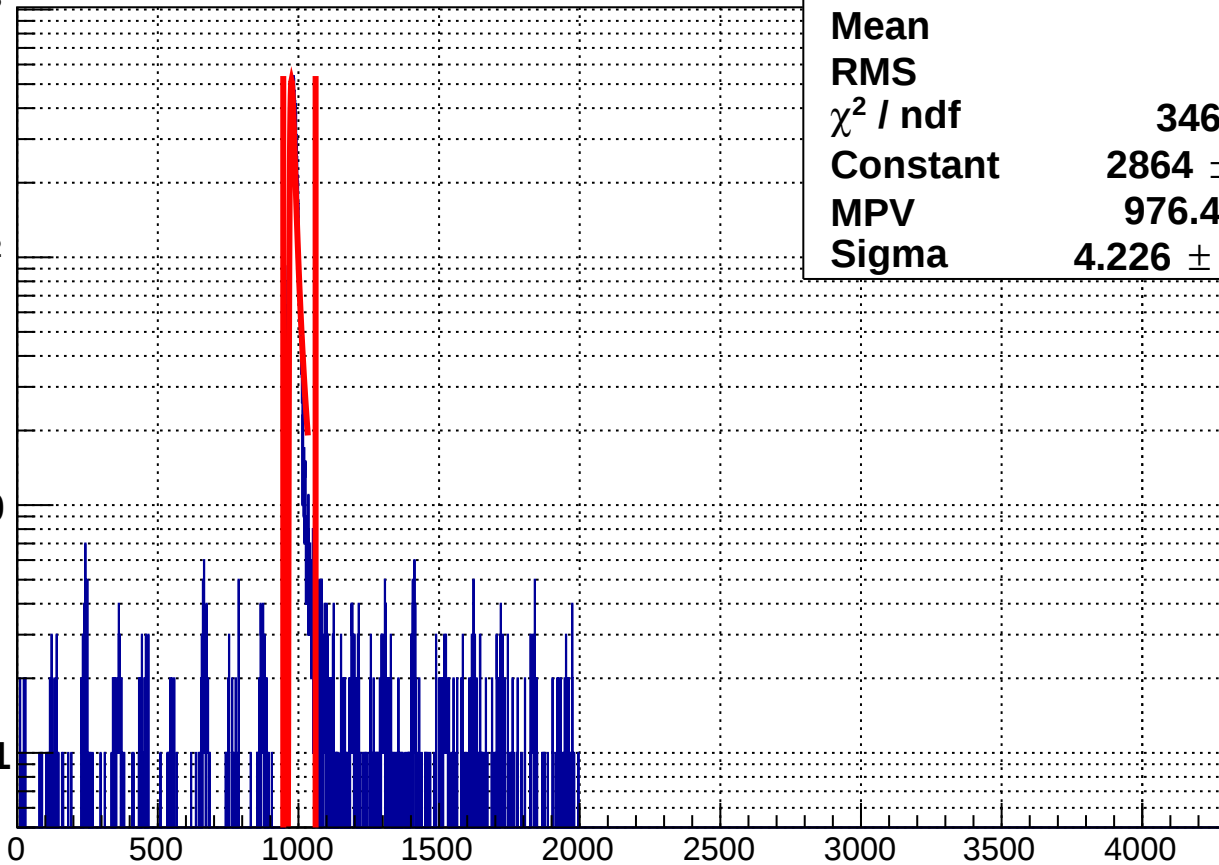
4.063 ± 0.047

tray_le_30

Run# 17099020

count

10^3
 10^2
10
1



tray_le_31

Entries	15603
Mean	991.8
RMS	135.1
χ^2 / ndf	3463 / 84
Constant	2864 ± 40.3
MPV	976.4 ± 0.1
Sigma	4.226 ± 0.048

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

15834

Mean

999.8

RMS

131.1

χ^2 / ndf

3616 / 86

Constant

2856 ± 43.5

MPV

985.1 ± 0.1

Sigma

4.271 ± 0.056

tray_le_32

Run# 17099020

tray_le_33

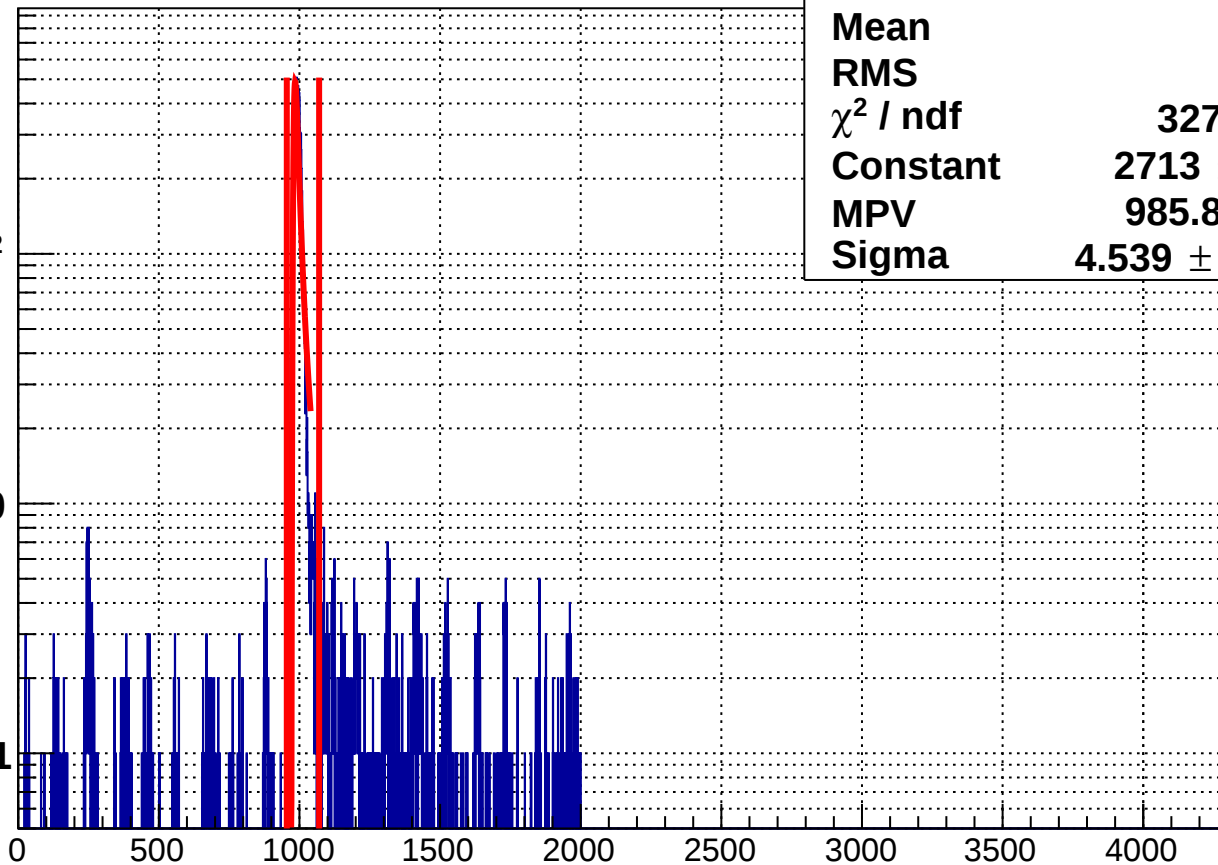
count

10^2

10

1

Entries	15510
Mean	1002
RMS	136.4
χ^2 / ndf	3270 / 79
Constant	2713 ± 39.1
MPV	985.8 ± 0.1
Sigma	4.539 ± 0.055



LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

16187

Mean

999

RMS

126.5

χ^2 / ndf

3352 / 78

Constant

2850 ± 42.1

MPV

984.4 ± 0.1

Sigma

4.591 ± 0.059

tray_le_34

Run# 17099020

tray_le_35

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

15647

Mean

1002

RMS

133.3

χ^2 / ndf

3021 / 81

Constant

2781 ± 39.0

MPV

986.2 ± 0.1

Sigma

4.599 ± 0.054

Run# 17099020

tray_le_36

count

10^3
 10^2
10
1

Entries	15917
Mean	998.9
RMS	127.4
χ^2 / ndf	3819 / 83
Constant	2758 ± 42.4
MPV	984.5 ± 0.2
Sigma	4.411 ± 0.059

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

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Run# 17099020

tray_le_37

count

10^3
 10^2
10
1

Entries	15889
Mean	1003
RMS	137.1
χ^2 / ndf	3844 / 84
Constant	2876 ± 41.9
MPV	986.3 ± 0.1
Sigma	4.188 ± 0.051

0 500 1000 1500 2000 2500 3000 3500 4000

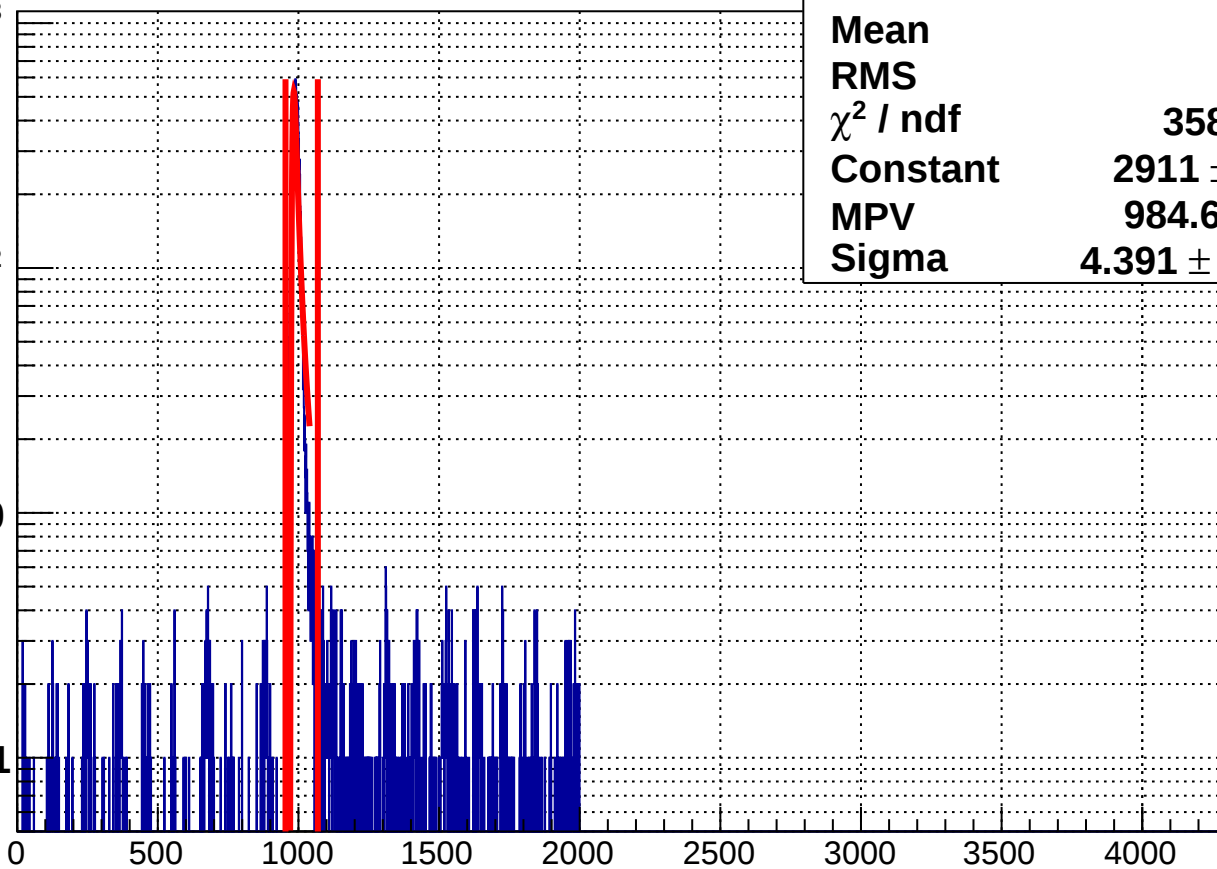
LE time (ns)

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Run# 17099020

count

10^3
 10^2
10
1



tray_le_38

Entries	16251
Mean	1001
RMS	130.1
χ^2 / ndf	3583 / 81
Constant	2911 ± 42.5
MPV	984.6 ± 0.1
Sigma	4.391 ± 0.055

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

16061

Mean

1002

RMS

130.4

χ^2 / ndf

3753 / 83

Constant

2865 ± 42.4

MPV

986.2 ± 0.1

Sigma

4.309 ± 0.054

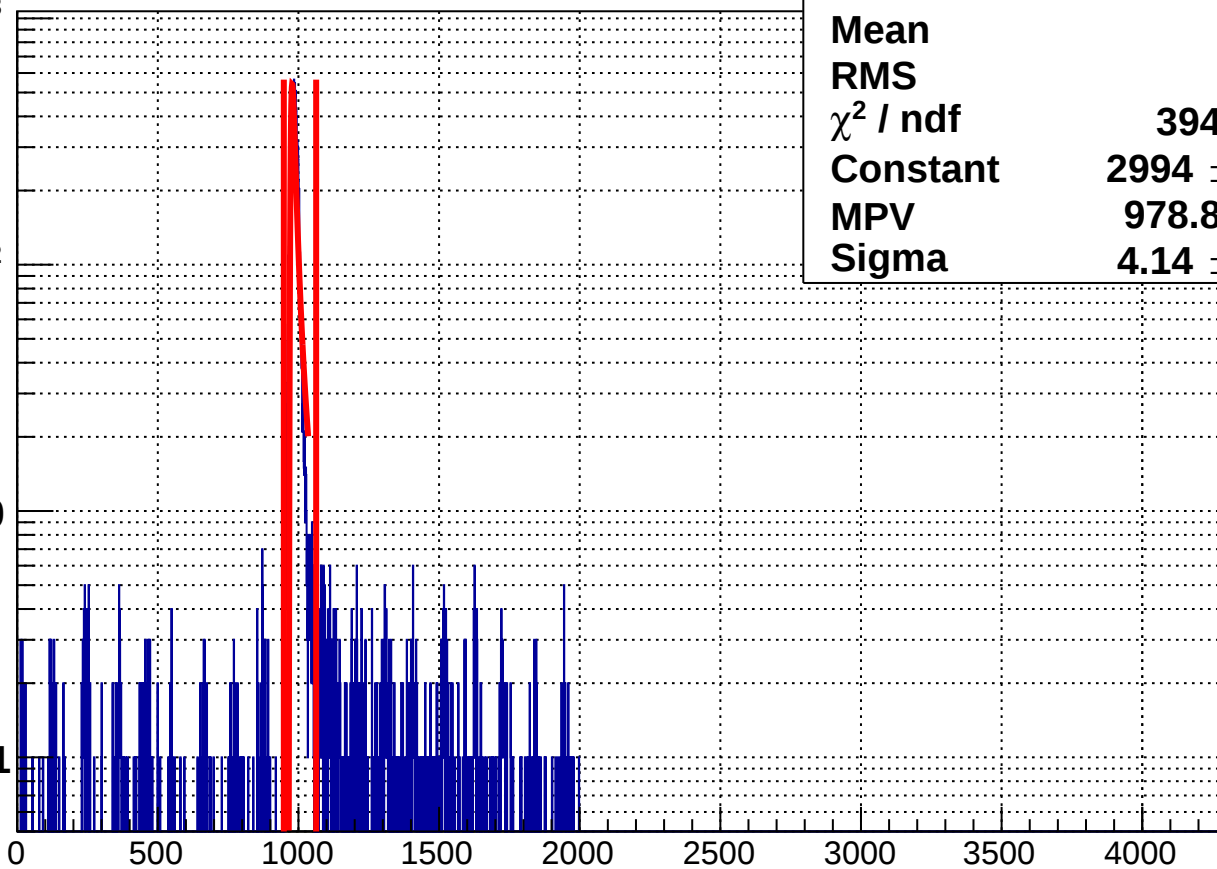
tray_le_39

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Run# 17099020

count

10^3
 10^2
10
1



tray_le_40

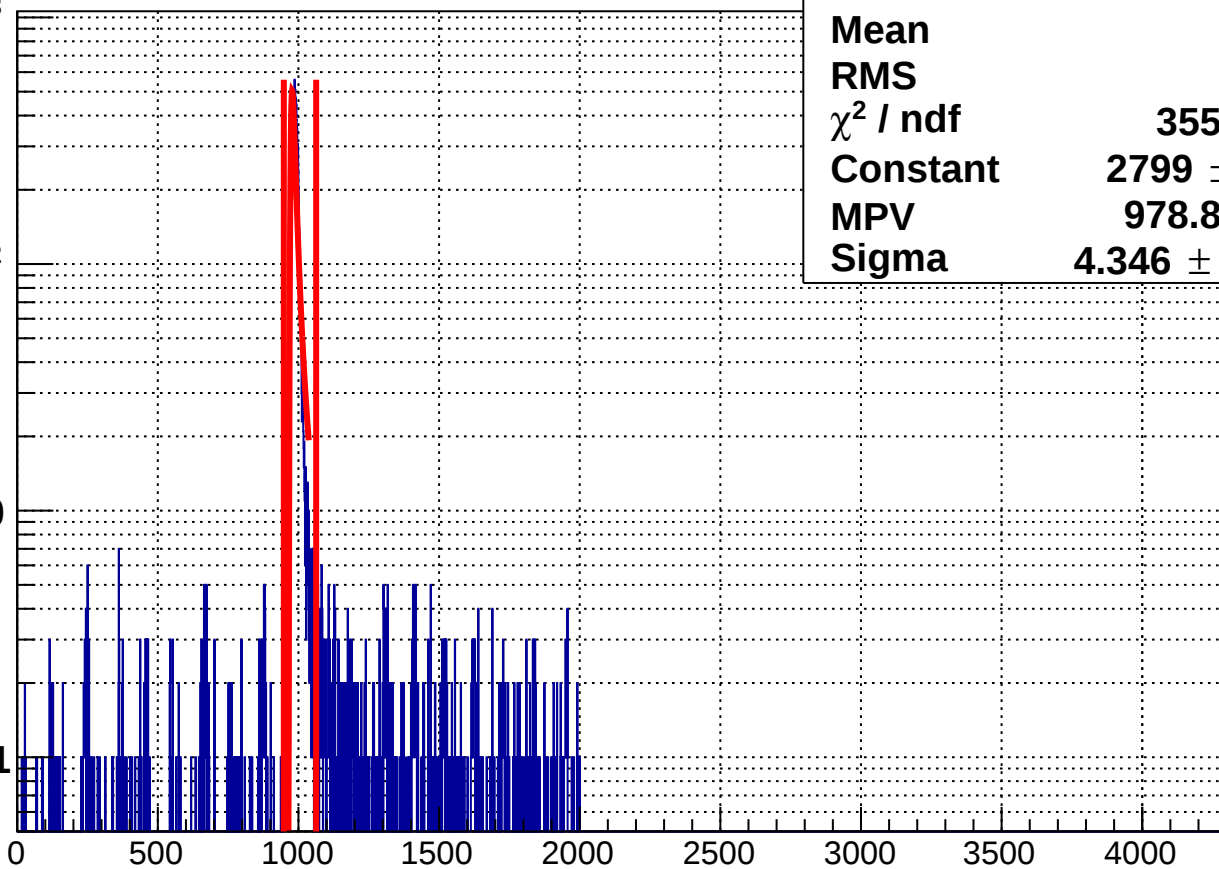
Entries	16402
Mean	992.4
RMS	130.6
χ^2 / ndf	3943 / 82
Constant	2994 ± 41.2
MPV	978.8 ± 0.1
Sigma	4.14 ± 0.05

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1



tray_le_41

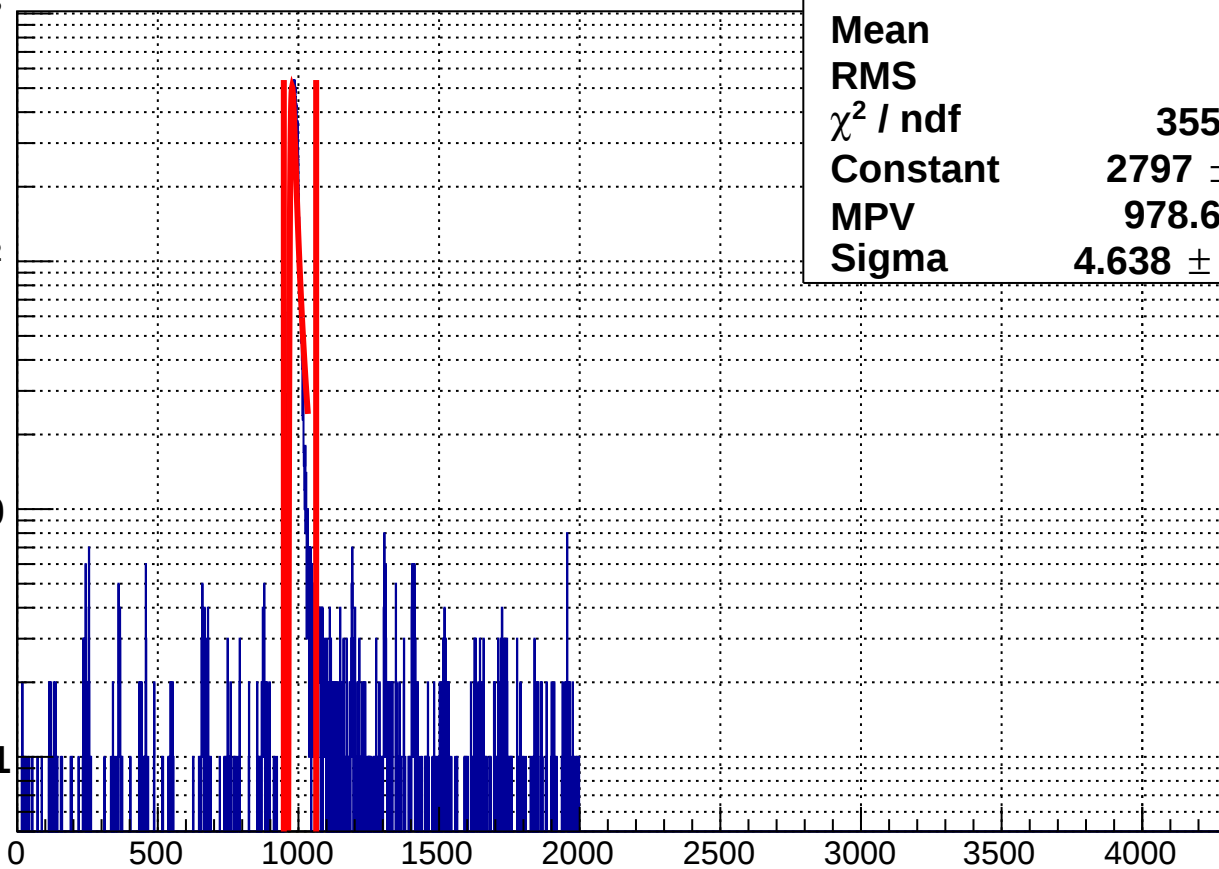
Entries	15727
Mean	994.9
RMS	129.6
χ^2 / ndf	3556 / 88
Constant	2799 ± 39.3
MPV	978.8 ± 0.1
Sigma	4.346 ± 0.050

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1



tray_le_42

Entries	16286
Mean	995
RMS	126.3
χ^2 / ndf	3551 / 82
Constant	2797 ± 38.7
MPV	978.6 ± 0.1
Sigma	4.638 ± 0.053

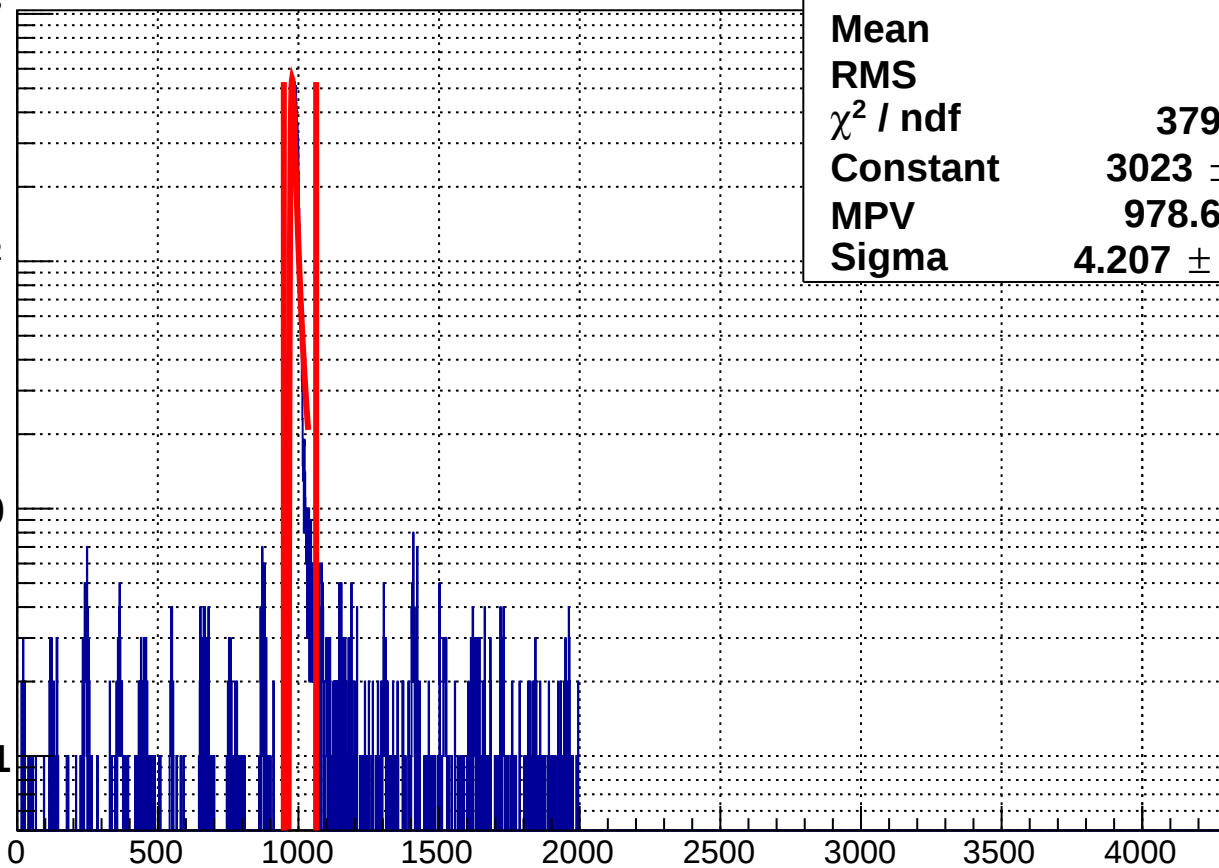
LE time (ns)

Run# 17099020

tray_le_43

count

10^3
 10^2
10
1



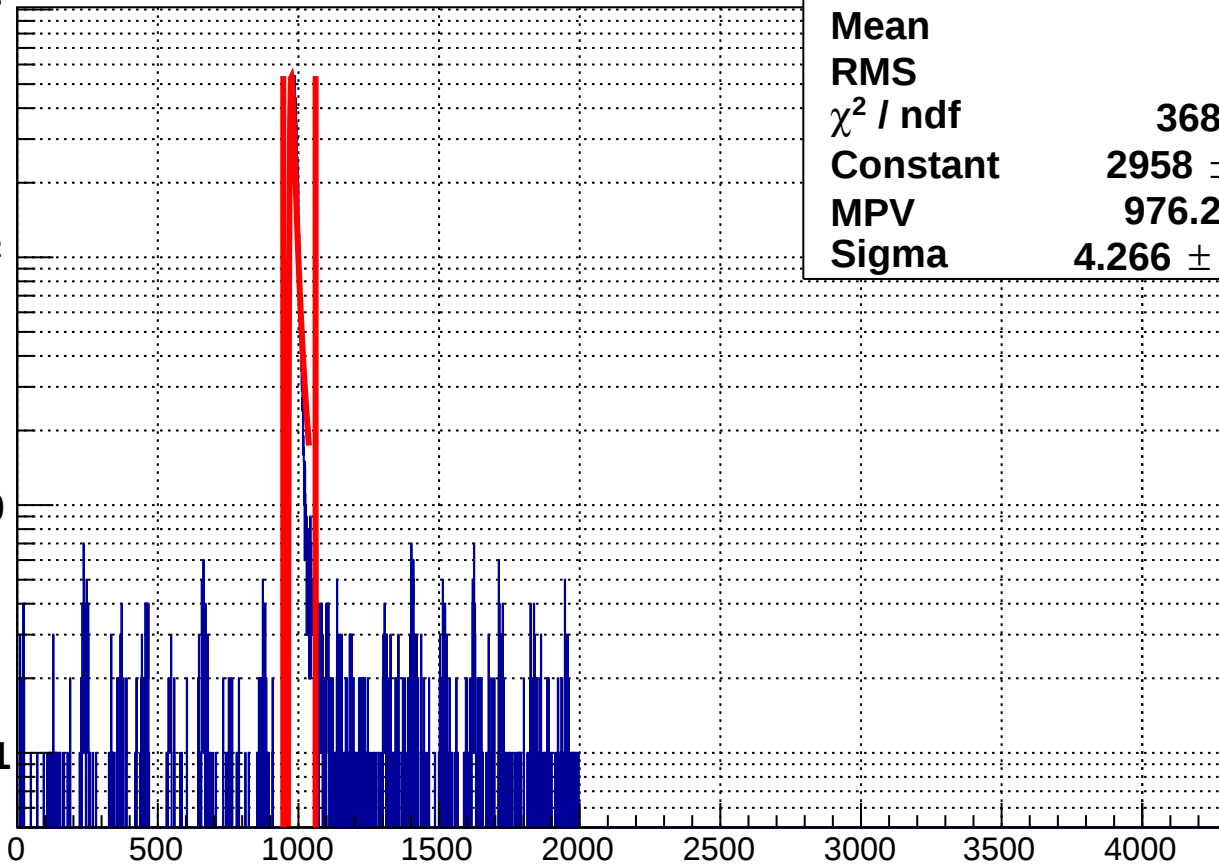
Entries	16585
Mean	992.7
RMS	137
χ^2 / ndf	3796 / 84
Constant	3023 ± 41.4
MPV	978.6 ± 0.1
Sigma	4.207 ± 0.047

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1



tray_le_44

Entries	16439
Mean	992.1
RMS	140.7
χ^2 / ndf	3680 / 88
Constant	2958 ± 41.9
MPV	976.2 ± 0.1
Sigma	4.266 ± 0.050

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

16148

Mean

984

RMS

134

χ^2 / ndf

3621 / 86

Constant

2821 ± 39.7

MPV

968.7 ± 0.1

Sigma

4.45 ± 0.05

tray_le_45

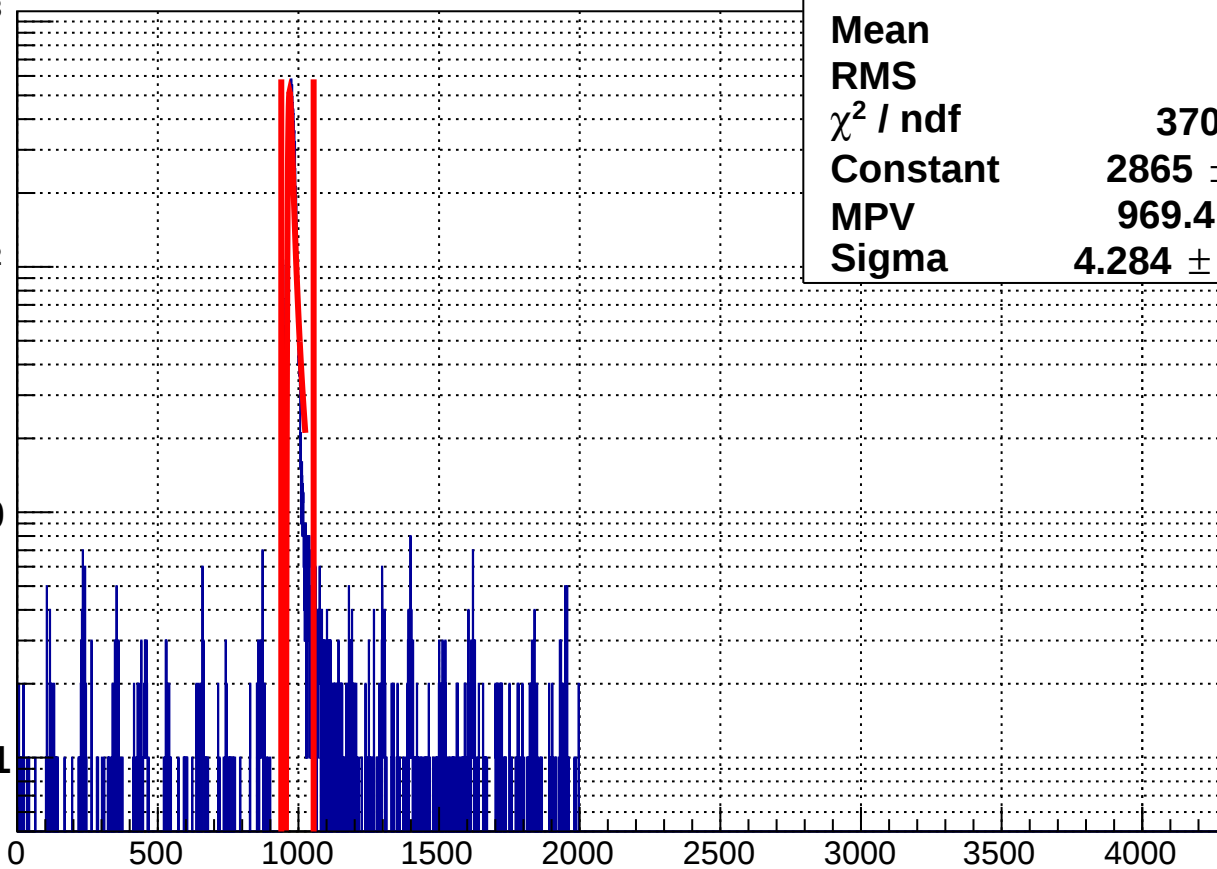
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Run# 17099020

tray_le_46

count

10^3
 10^2
10
1

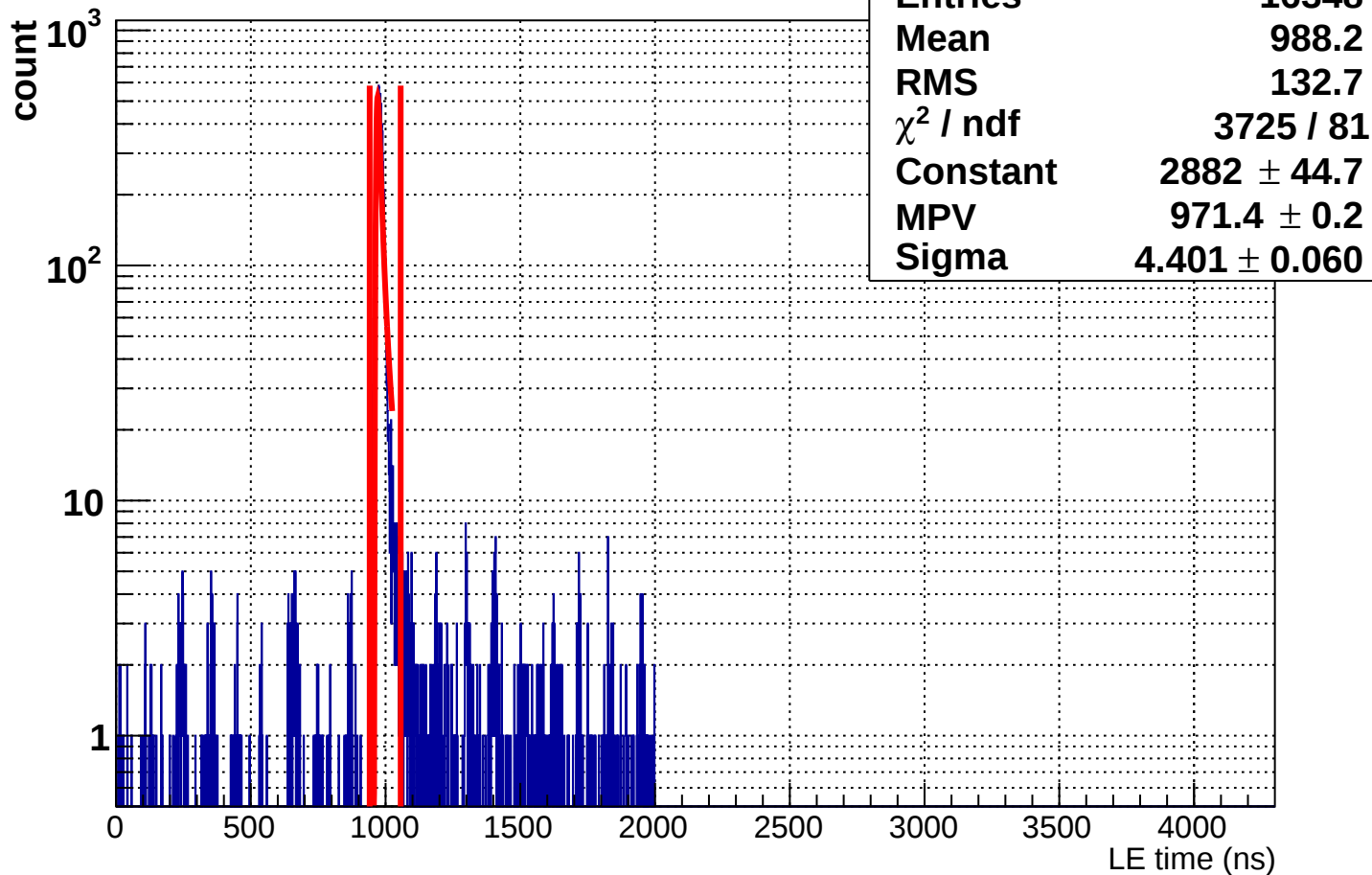


Entries	15961
Mean	982.5
RMS	134.7
χ^2 / ndf	3707 / 82
Constant	2865 ± 43.3
MPV	969.4 ± 0.2
Sigma	4.284 ± 0.056

LE time (ns)

Run# 17099020

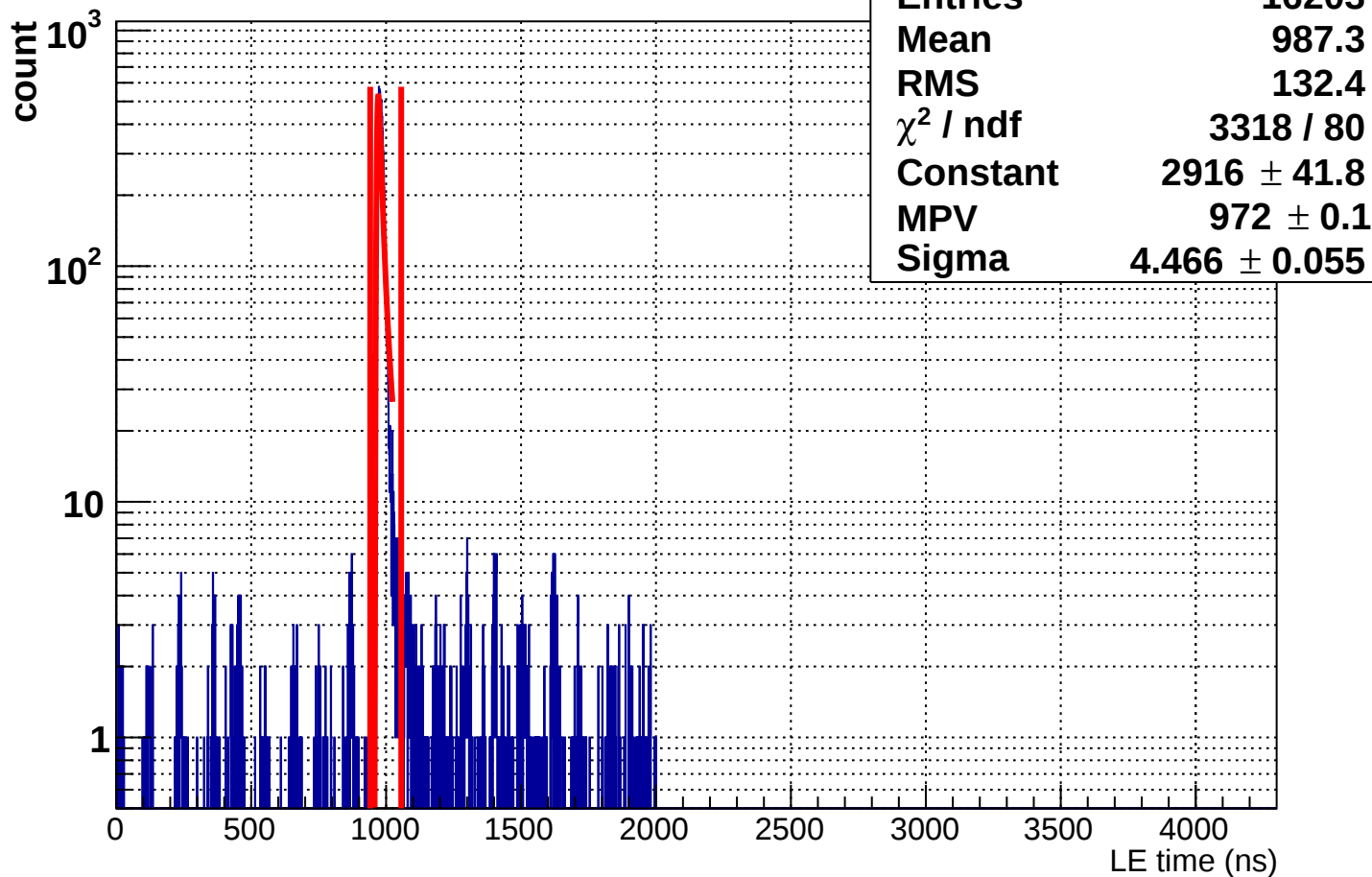
tray_le_47



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Run# 17099020

tray_le_48



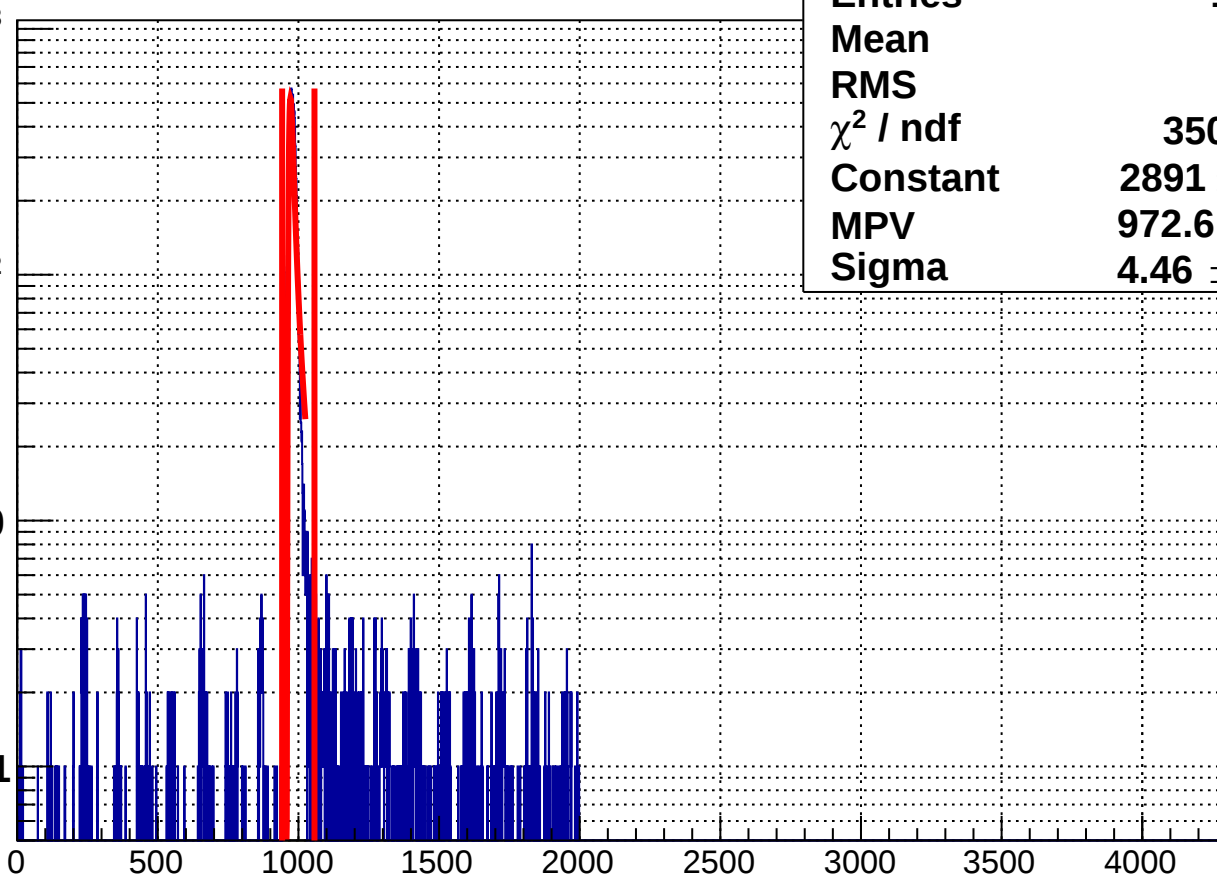
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Run# 17099020

tray_le_49

count

10^3
 10^2
10
1



Entries

16228

Mean

987.7

RMS

134.6

χ^2 / ndf

3504 / 81

Constant

2891 ± 46.1

MPV

972.6 ± 0.2

Sigma

4.46 ± 0.06

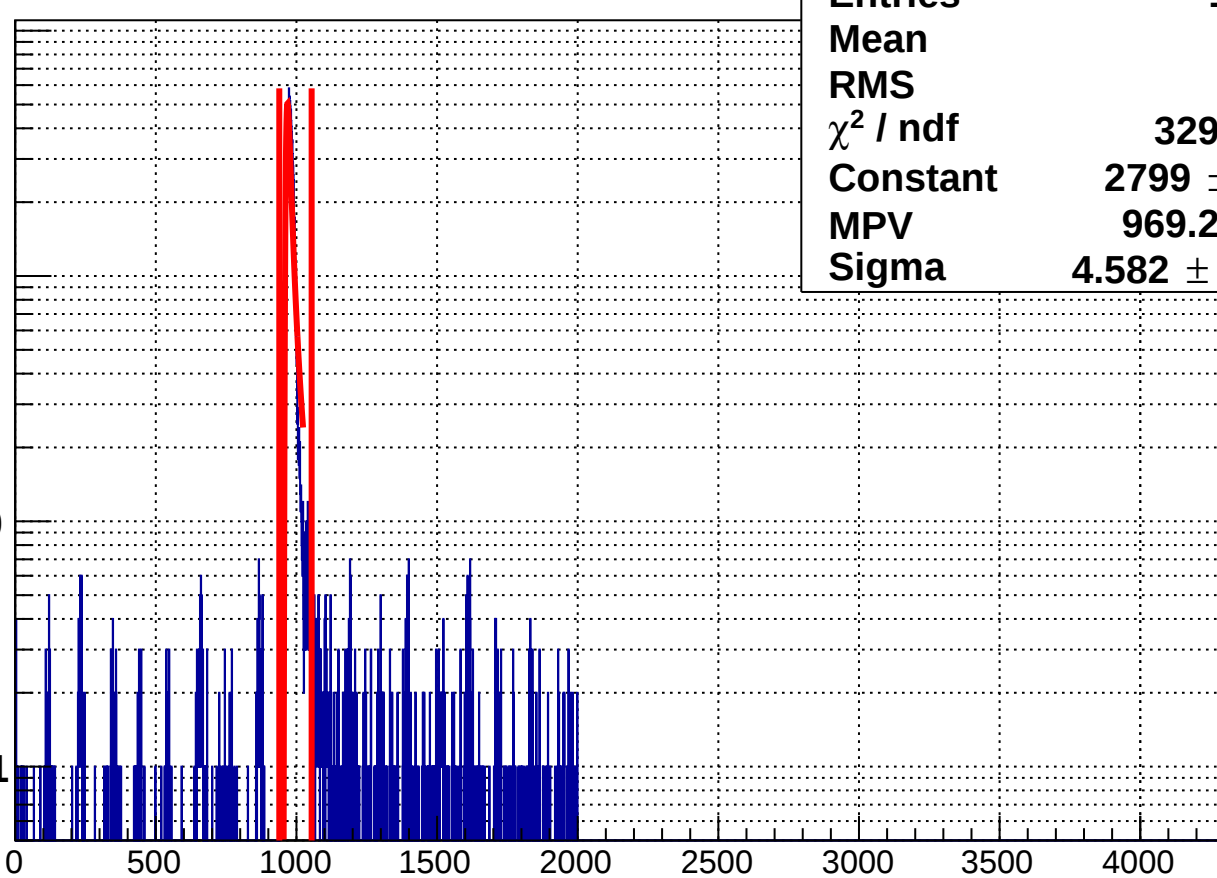
LE time (ns)

Run# 17099020

tray_le_50

count

10^3
 10^2
10
1



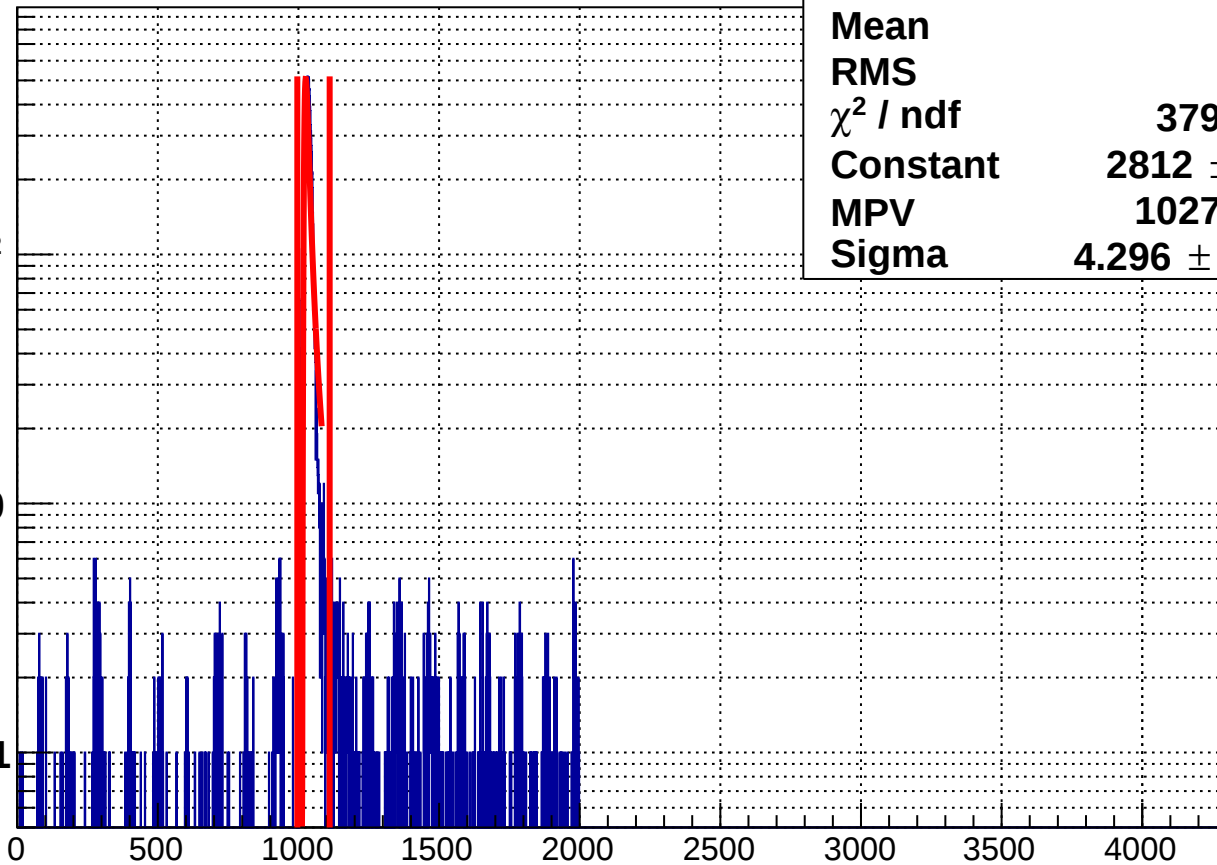
Entries	16032
Mean	985.3
RMS	134.5
χ^2 / ndf	3293 / 83
Constant	2799 ± 39.2
MPV	969.2 ± 0.1
Sigma	4.582 ± 0.054

LE time (ns)

Run# 17099020**tray_le_51****count** 10^2

10

1

**Entries****15842****Mean****1041****RMS****129.2** χ^2 / ndf **3797 / 79****Constant** **2812 ± 40.6** **MPV** **1027 ± 0.1** **Sigma** **4.296 ± 0.052**

LE time (ns)

Tue Apr 11 15:06:10 2017

Run# 17099020

tray_le_52

count

10^3
 10^2
10
1

Entries	15950
Mean	1046
RMS	129.2
χ^2 / ndf	3445 / 82
Constant	2767 ± 38.8
MPV	1030 ± 0.1
Sigma	4.553 ± 0.053

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

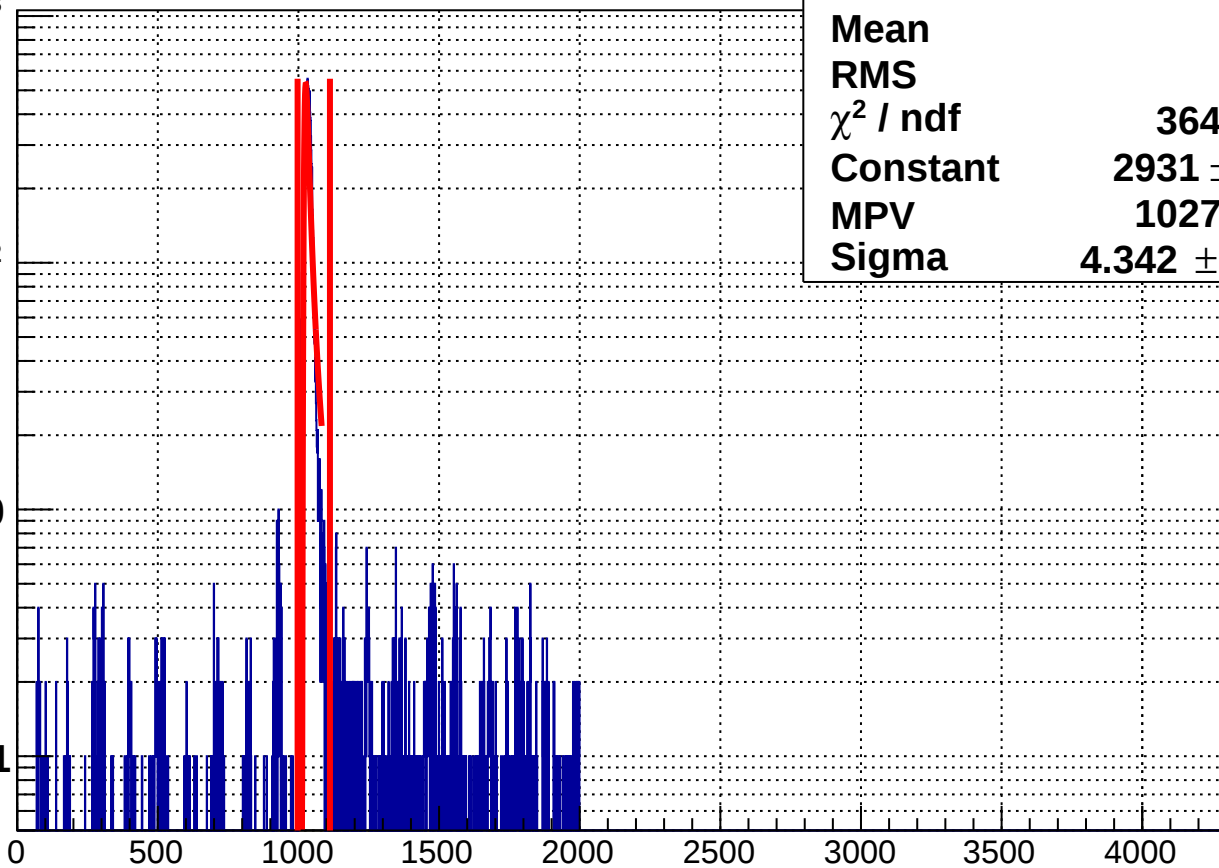
Tue Apr 11 15:06:10 2017

Run# 17099020

tray_le_53

count

10^3
 10^2
10
1



Entries	16344
Mean	1042
RMS	130.2
χ^2 / ndf	3649 / 82
Constant	2931 ± 41.6
MPV	1027 ± 0.1
Sigma	4.342 ± 0.051

LE time (ns)

Run# 17099020

tray_le_54

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

15799

Mean

1049

RMS

131.7

χ^2 / ndf

4014 / 89

Constant

2871 ± 42.6

MPV

1036 ± 0.1

Sigma

4.053 ± 0.050

Tue Apr 11 15:06:10 2017

Run# 17099020

tray_le_55

count

10^3
 10^2
10
1

Entries	16079
Mean	1050
RMS	132.4
χ^2 / ndf	3767 / 80
Constant	2804 ± 42.7
MPV	1036 ± 0.2
Sigma	4.401 ± 0.058

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

Tue Apr 11 15:06:10 2017

Run# 17099020

tray_le_56

count

10^3
 10^2
10
1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

16305

Mean

1055

RMS

129.7

χ^2 / ndf

3626 / 86

Constant

2991 ± 40.9

MPV

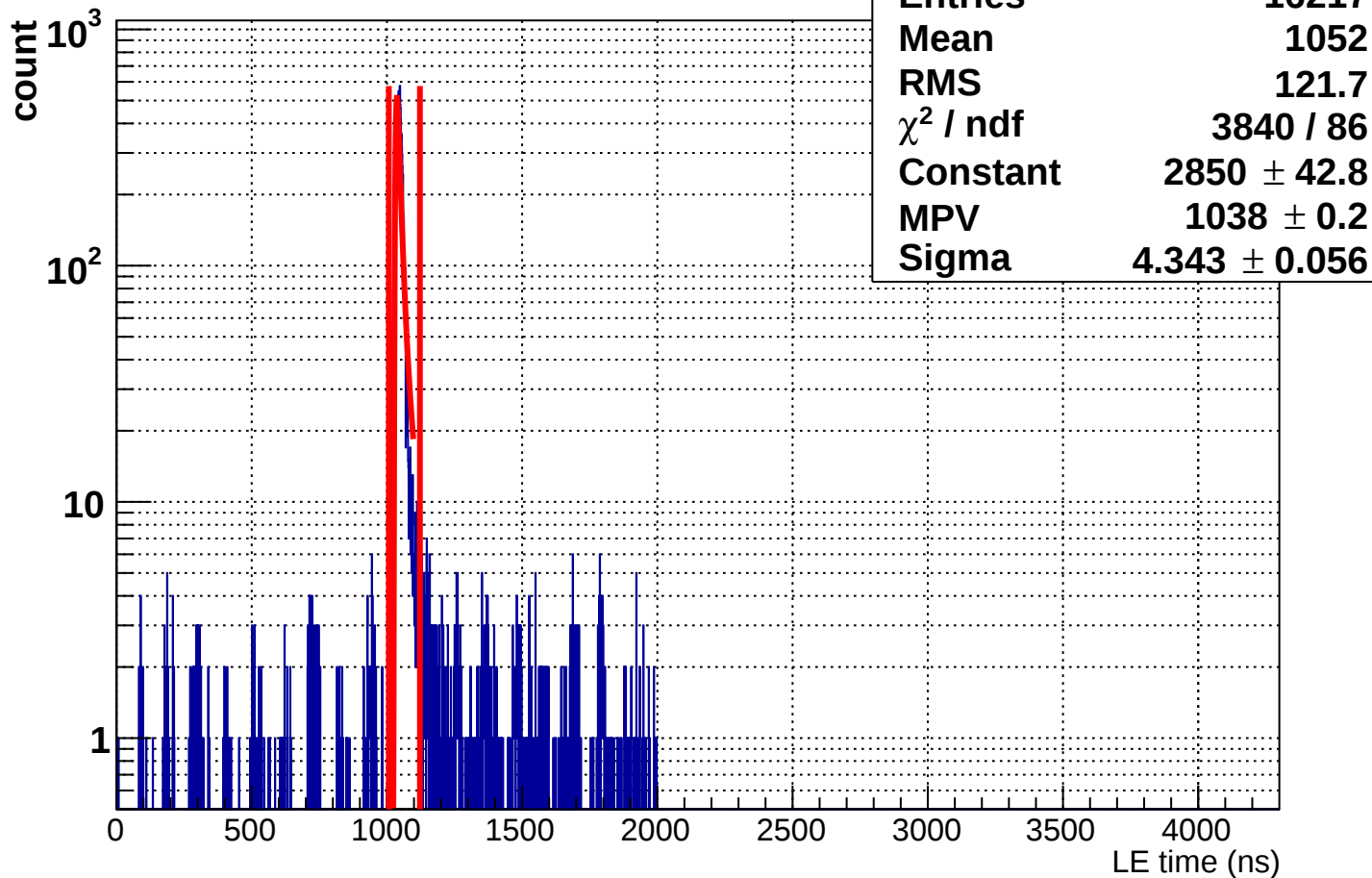
1038 ± 0.1

Sigma

4.227 ± 0.047

Run# 17099020

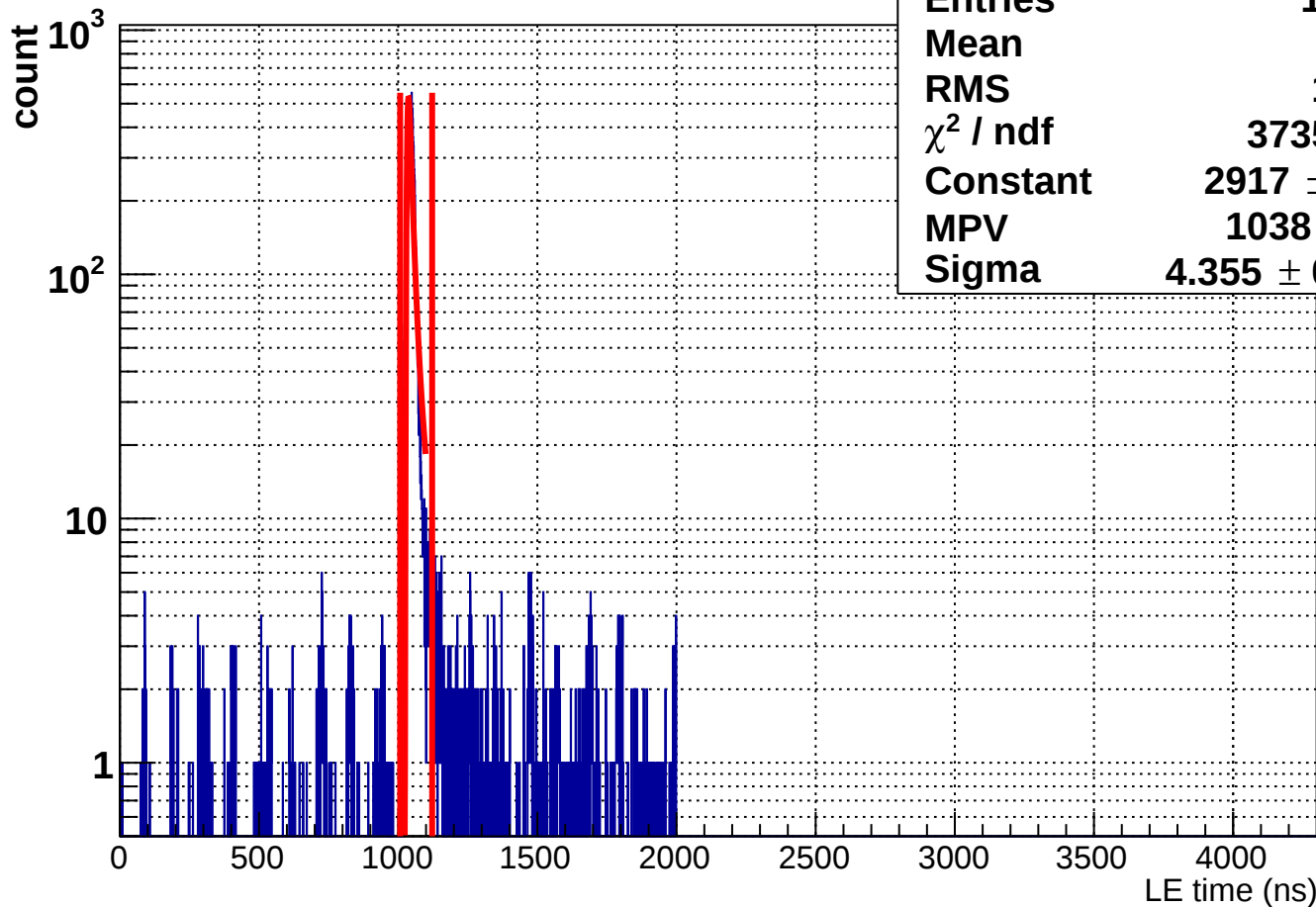
tray_le_57



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Run# 17099020

tray_le_58



tray_le_58	
Entries	16508
Mean	1054
RMS	127.5
χ^2 / ndf	3735 / 85
Constant	2917 ± 42.1
MPV	1038 ± 0.1
Sigma	4.355 ± 0.053

Run# 17099020

count

10^3
 10^2
10
1

0

500

1000

1500

2000

2500

3000

3500

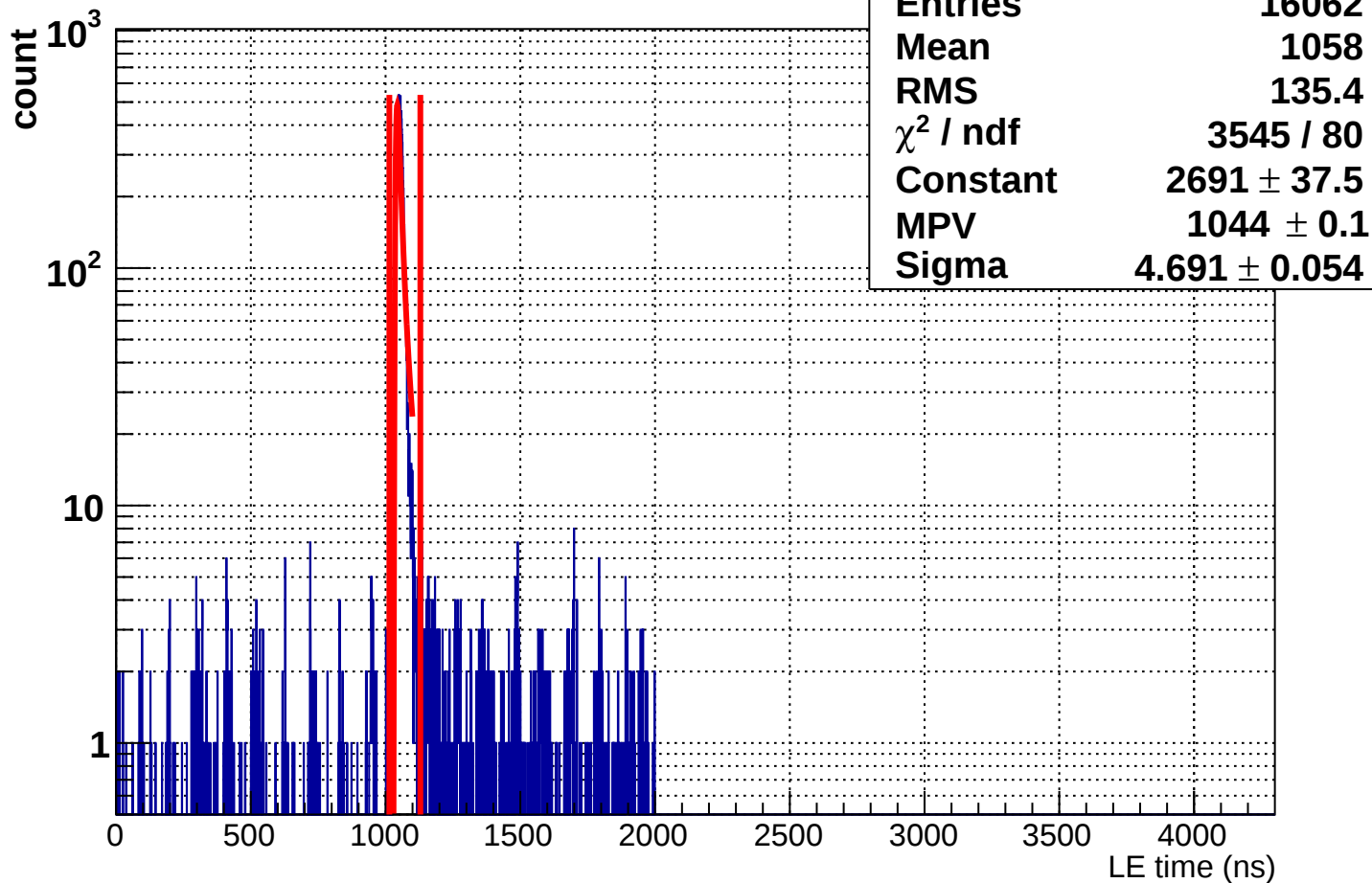
4000

LE time (ns)

tray_le_59	
Entries	16394
Mean	1058
RMS	128.2
χ^2 / ndf	3728 / 83
Constant	2851 ± 40.6
MPV	1044 ± 0.1
Sigma	4.459 ± 0.053

Run# 17099020

tray_le_60



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Run# 17099020

tray_le_61

count

10^3
 10^2
10
1

Entries	18067
Mean	1053
RMS	134.4
χ^2 / ndf	4572 / 84
Constant	3244 ± 48.0
MPV	1041 ± 0.2
Sigma	4.121 ± 0.052

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

Tue Apr 11 15:06:11 2017

Run# 17099020

tray_le_62

count

10^3
 10^2
10
1

Entries	17444
Mean	1053
RMS	120.9
χ^2 / ndf	4078 / 84
Constant	3100 ± 42.2
MPV	1040 ± 0.1
Sigma	4.334 ± 0.049

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

Tue Apr 11 15:06:11 2017

Run# 17099020

tray_le_63

count

10^3
 10^2
10
1

Entries	18276
Mean	1047
RMS	123.9
χ^2 / ndf	4165 / 86
Constant	3213 ± 45.1
MPV	1033 ± 0.2
Sigma	4.428 ± 0.053

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

Tue Apr 11 15:06:11 2017

Run# 17099020

tray_le_64

count

10^3
 10^2
10
1

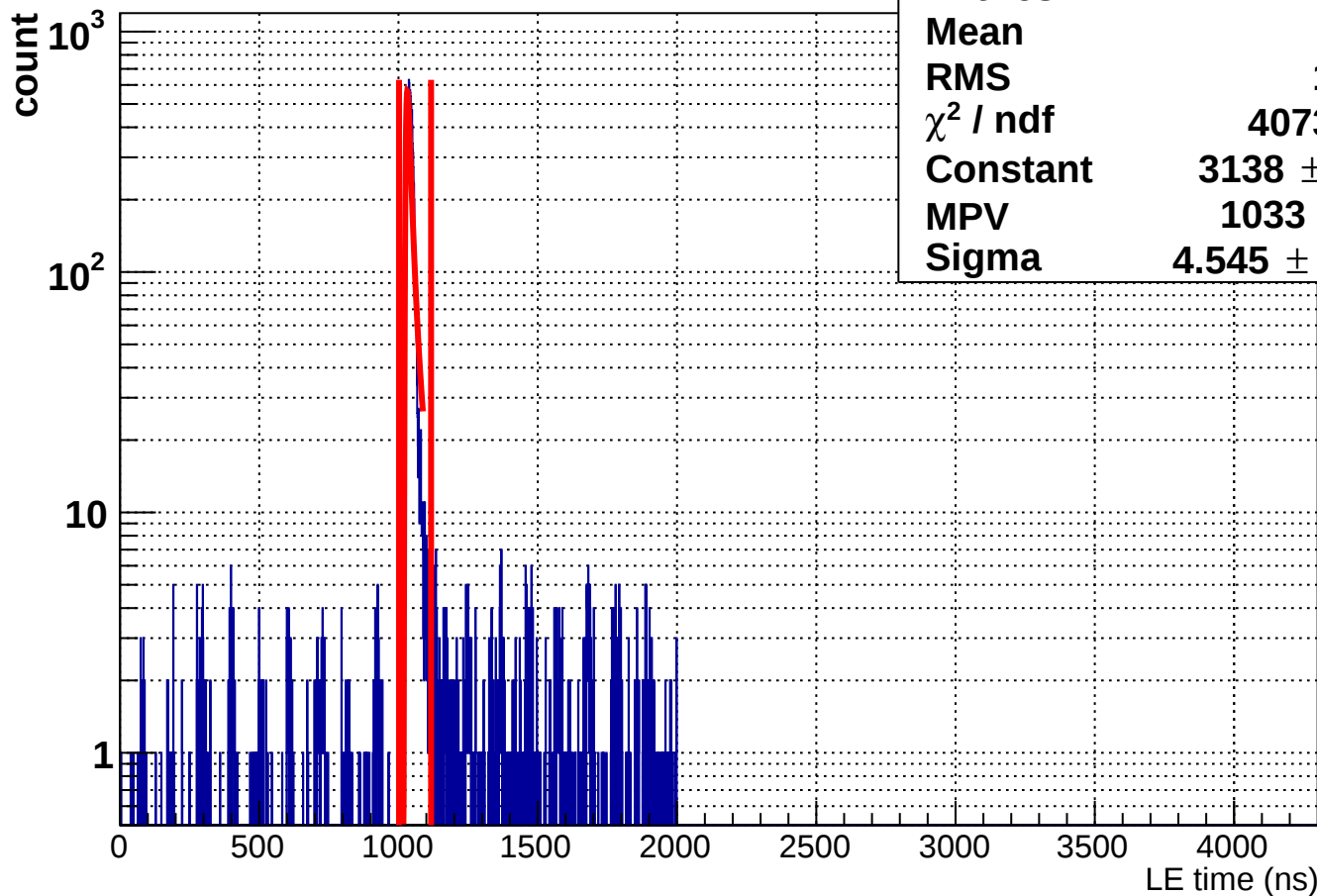
Entries	17752
Mean	1047
RMS	130.3
χ^2 / ndf	3932 / 79
Constant	3150 ± 43.0
MPV	1032 ± 0.1
Sigma	4.432 ± 0.051

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

Tue Apr 11 15:06:11 2017

Run# 17099020



tray_le_65

Entries	18281
Mean	1050
RMS	135.7
χ^2 / ndf	4073 / 83
Constant	3138 ± 47.0
MPV	1033 ± 0.2
Sigma	4.545 ± 0.061

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Run# 17099020

tray_le_66

count

10^3
 10^2
10
1

Entries	17877
Mean	1053
RMS	129.8
χ^2 / ndf	4587 / 84
Constant	3216 ± 44.0
MPV	1038 ± 0.1
Sigma	4.097 ± 0.046

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

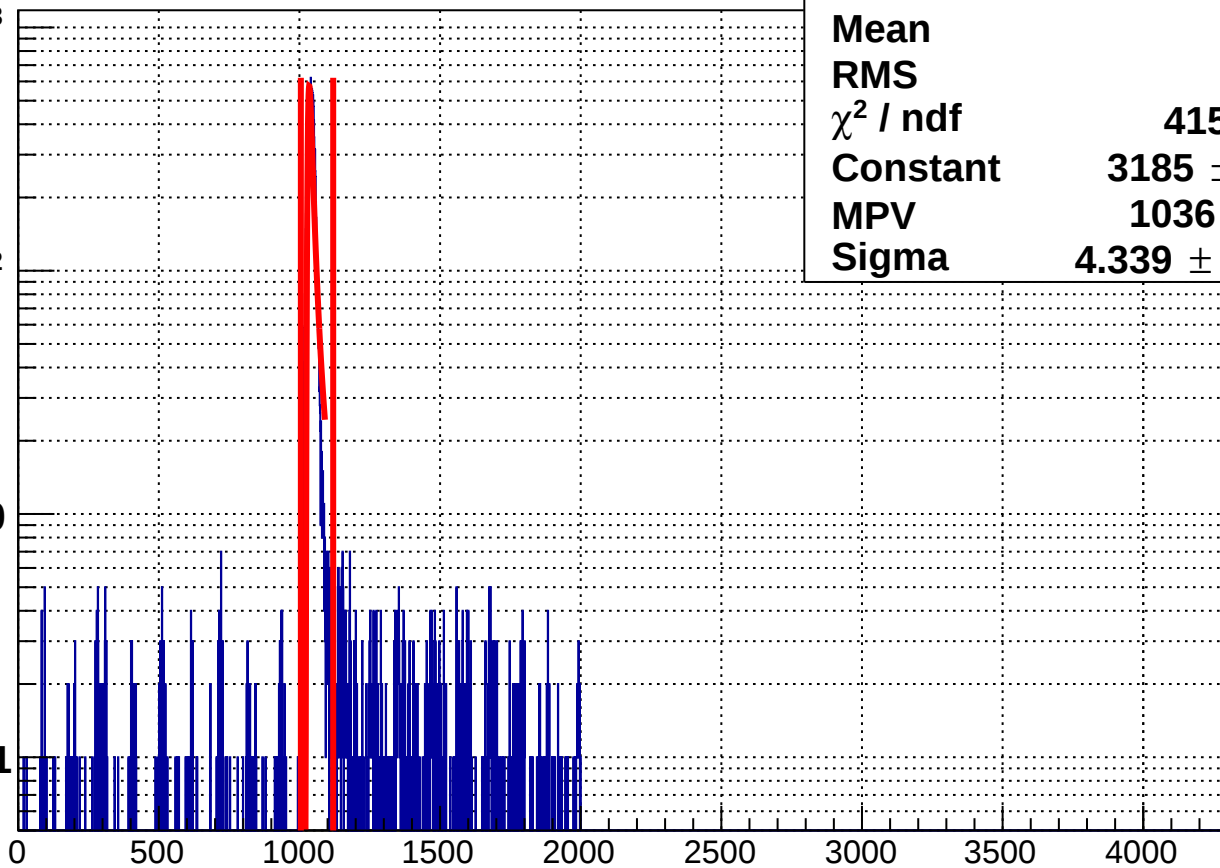
Tue Apr 11 15:06:11 2017

Run# 17099020

tray_le_67

count

10^3
 10^2
10
1



tray_le_67	
Entries	17824
Mean	1050
RMS	123.2
χ^2 / ndf	4155 / 81
Constant	3185 ± 47.7
MPV	1036 ± 0.2
Sigma	4.339 ± 0.057

LE time (ns)

Run# 17099020

tray_le_68

count

10^3
 10^2
10
1

Entries	17524
Mean	1050
RMS	120.8
χ^2 / ndf	4891 / 86
Constant	3131 ± 44.2
MPV	1037 ± 0.1
Sigma	4.004 ± 0.046

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

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Run# 17099020

tray_le_69

count

10^3
 10^2
10
1

Entries	17994
Mean	1048
RMS	127.9
χ^2 / ndf	3946 / 78
Constant	3200 ± 42.6
MPV	1035 ± 0.1
Sigma	4.449 ± 0.050

0 500 1000 1500 2000 2500 3000 3500 4000
LE time (ns)

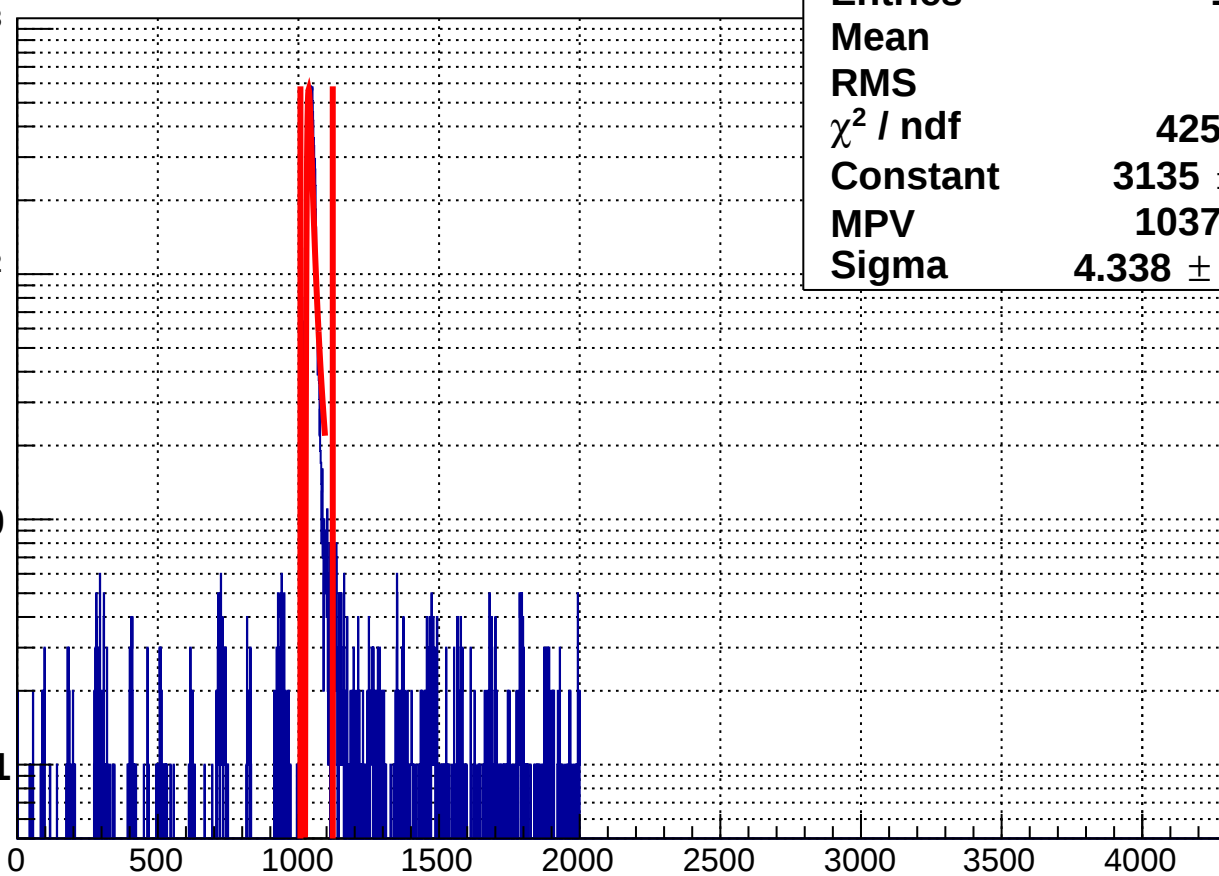
Tue Apr 11 15:06:11 2017

Run# 17099020

tray_le_70

count

10^3
 10^2
10
1



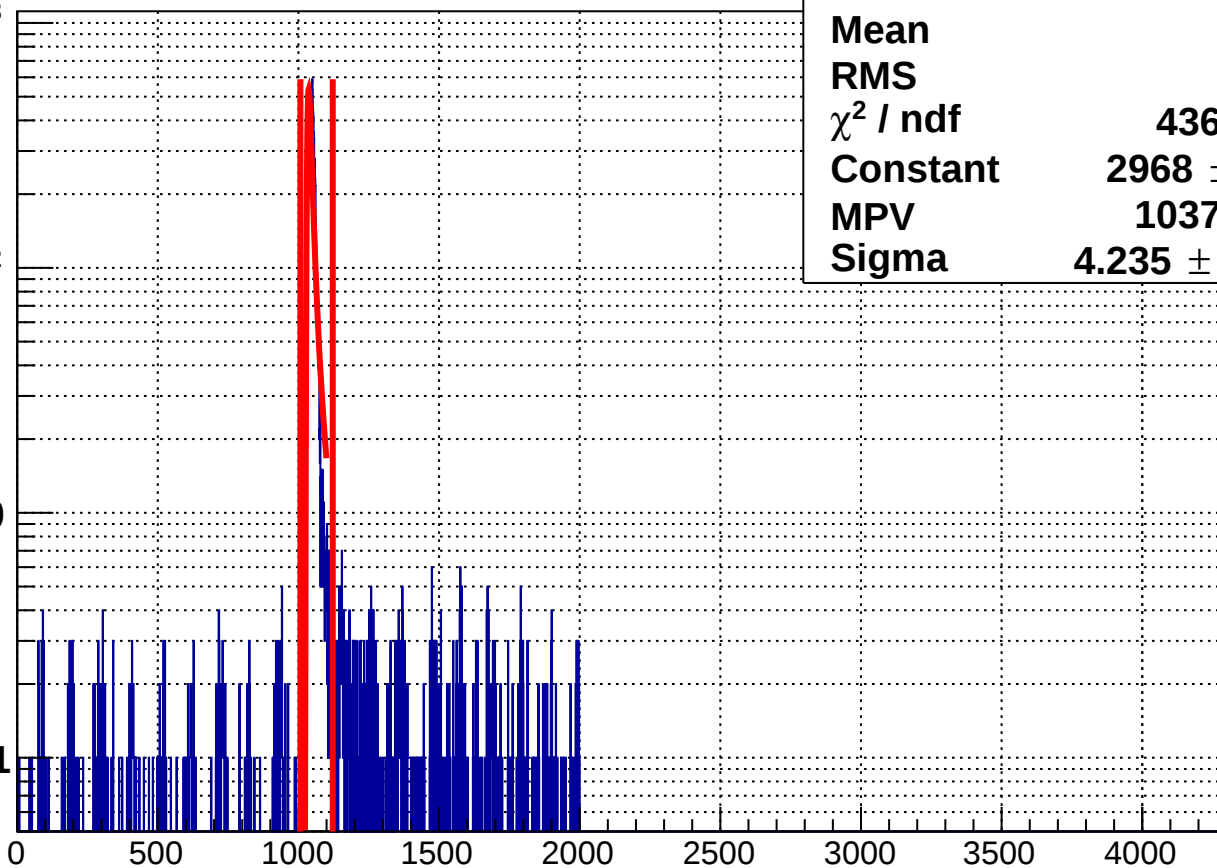
Entries	17837
Mean	1052
RMS	130.3
χ^2 / ndf	4254 / 82
Constant	3135 ± 43.1
MPV	1037 ± 0.1
Sigma	4.338 ± 0.050

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1



LE time (ns)

tray_le_71

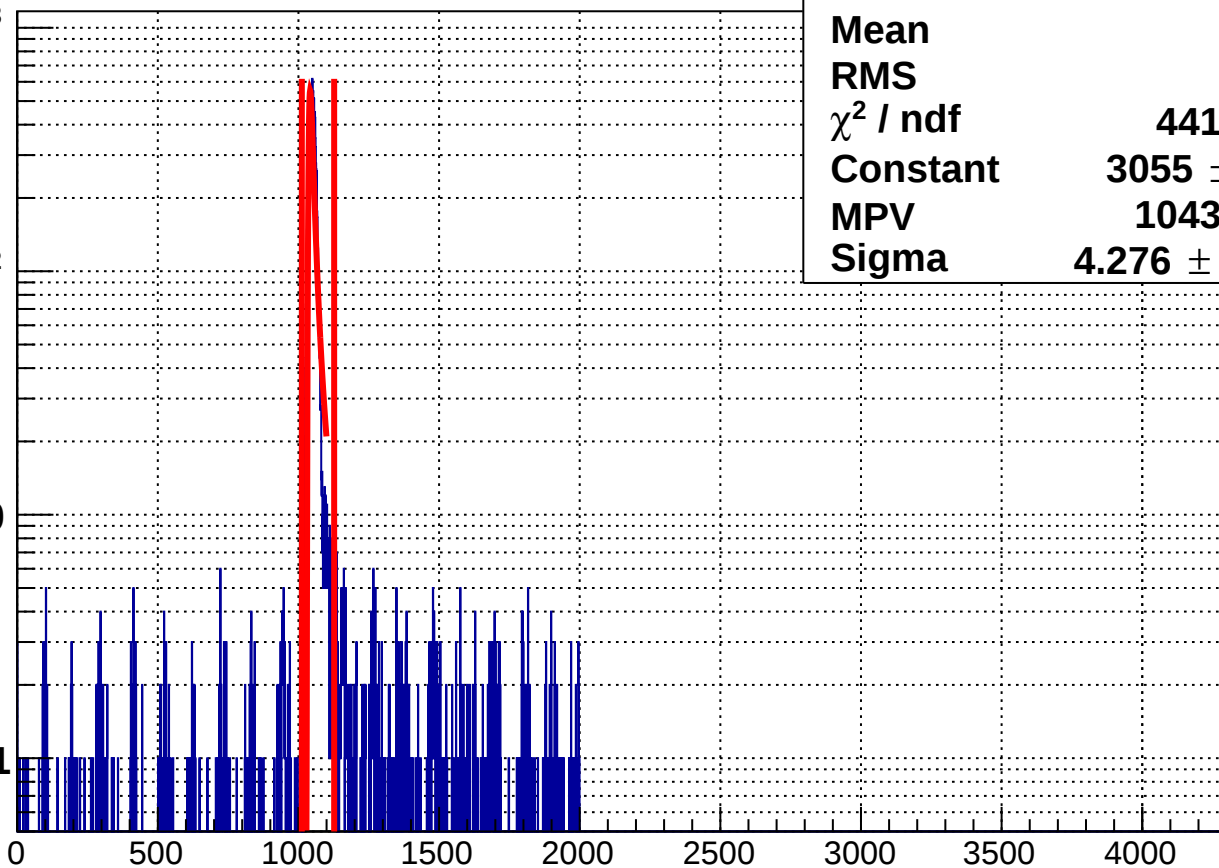
Entries	17062
Mean	1051
RMS	133.8
χ^2 / ndf	4364 / 87
Constant	2968 ± 41.0
MPV	1037 ± 0.1
Sigma	4.235 ± 0.047

Run# 17099020

tray_le_72

count

10^3
 10^2
10
1



Entries	17455
Mean	1057
RMS	126
χ^2 / ndf	4412 / 83
Constant	3055 ± 41.0
MPV	1043 ± 0.1
Sigma	4.276 ± 0.046

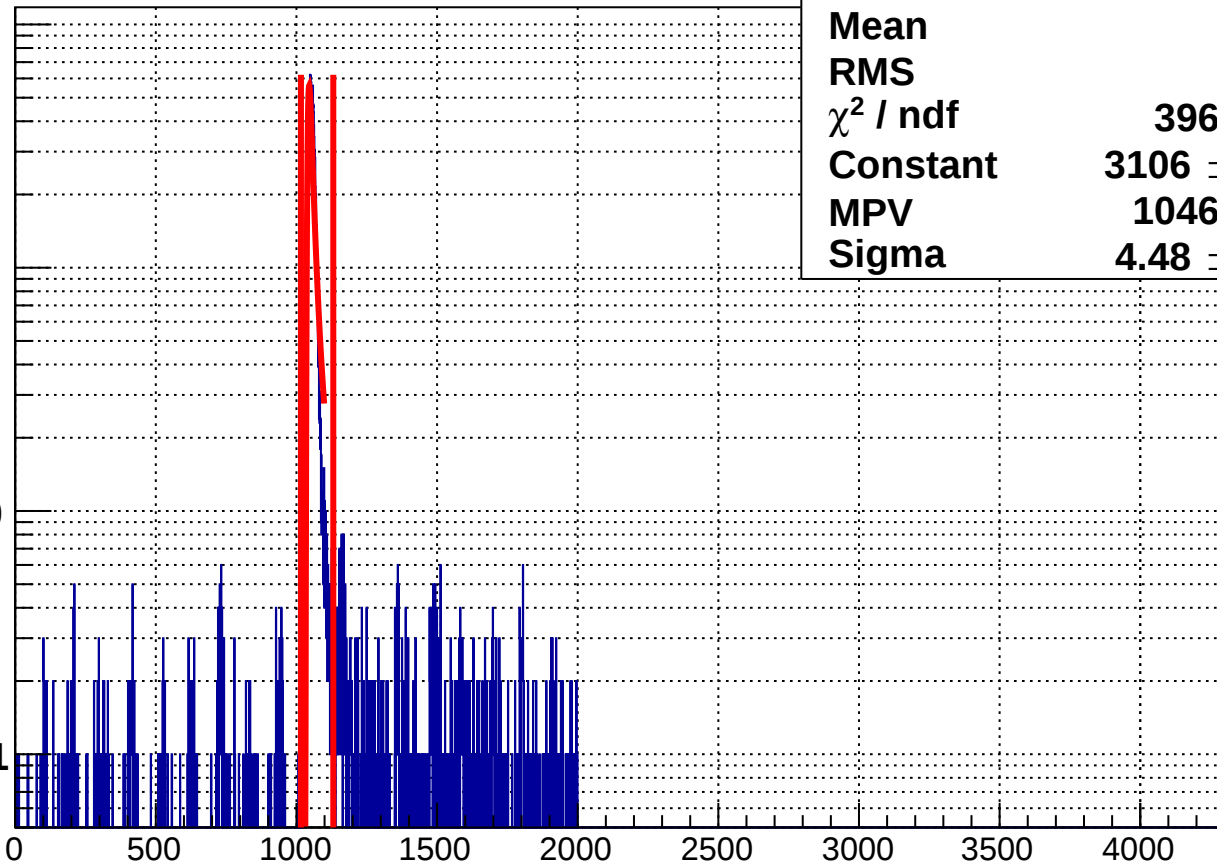
LE time (ns)

Run# 17099020

tray_le_73

count

10^3
 10^2
10
1



Entries	17634
Mean	1060
RMS	124.5
χ^2 / ndf	3963 / 80
Constant	3106 ± 42.9
MPV	1046 ± 0.1
Sigma	4.48 ± 0.05

LE time (ns)

Run# 17099020

tray_le_74

count

10^3
 10^2
10
1

Entries	18062
Mean	1058
RMS	124.5
χ^2 / ndf	4419 / 85
Constant	3211 ± 44.2
MPV	1042 ± 0.1
Sigma	4.263 ± 0.049

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

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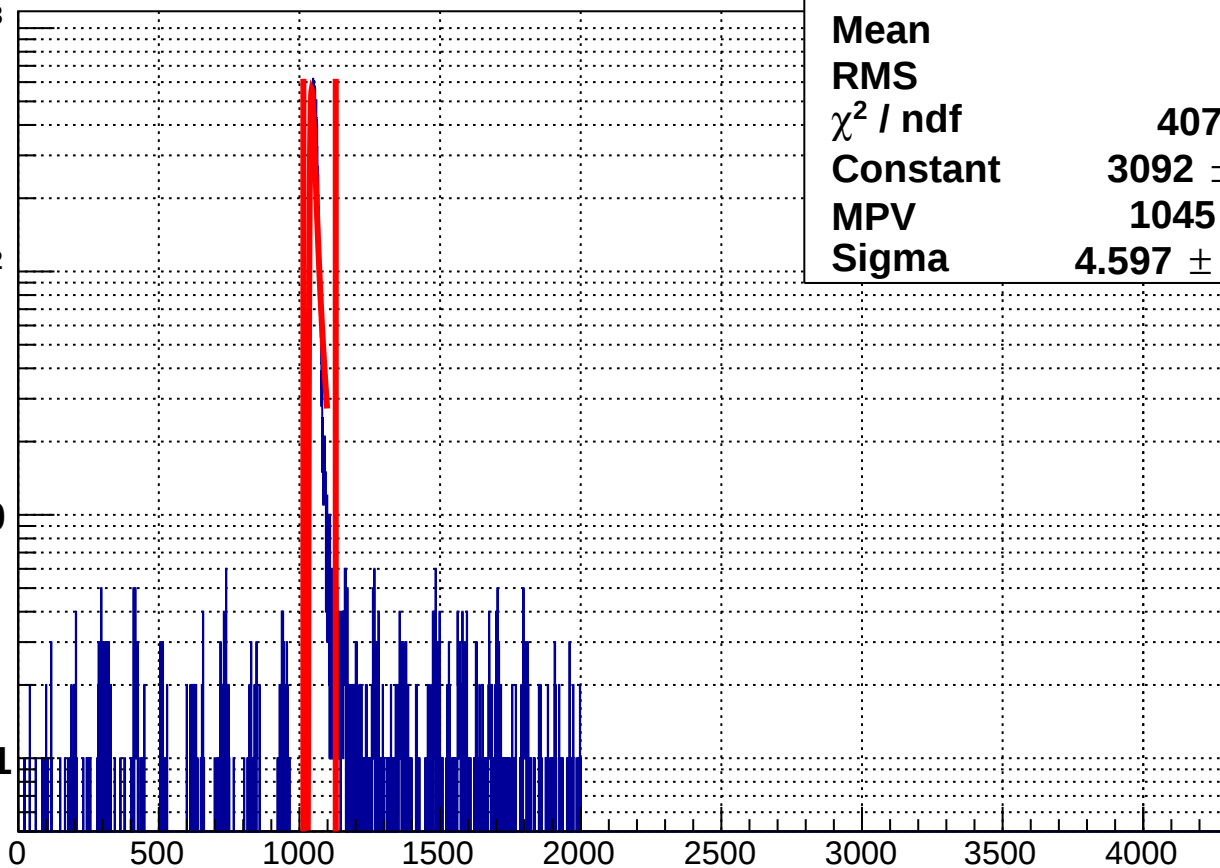
Run# 17099020

tray_le_75

count

10^3
 10^2
10
1

Entries	17992
Mean	1058
RMS	123.7
χ^2 / ndf	4072 / 78
Constant	3092 ± 44.8
MPV	1045 ± 0.2
Sigma	4.597 ± 0.059



LE time (ns)

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Run# 17099020

tray_le_76

count

10^3
 10^2
10
1

Entries	16854
Mean	1054
RMS	122.3
χ^2 / ndf	4314 / 82
Constant	2893 ± 40.1
MPV	1042 ± 0.1
Sigma	4.364 ± 0.050

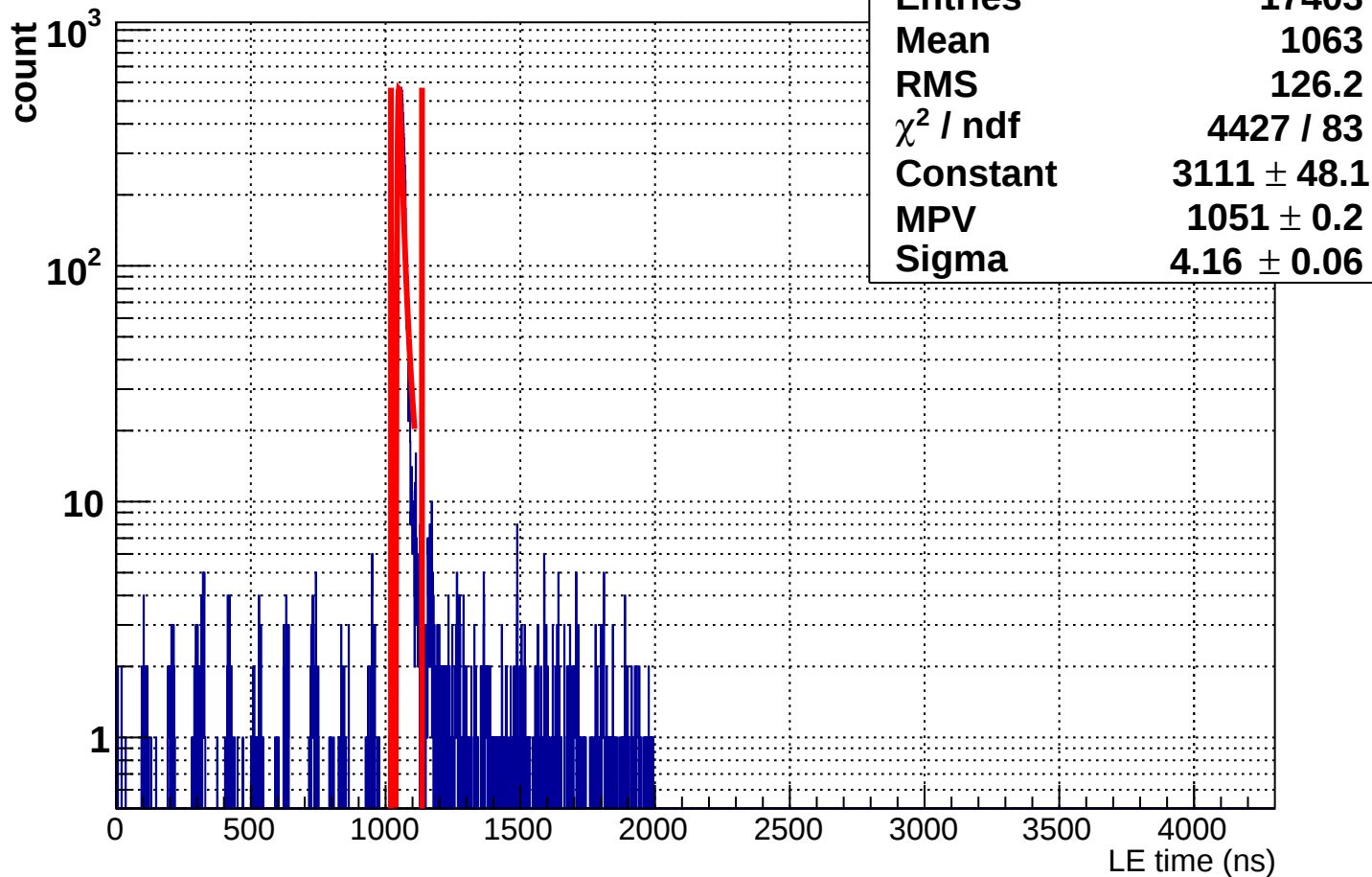
0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

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Run# 17099020

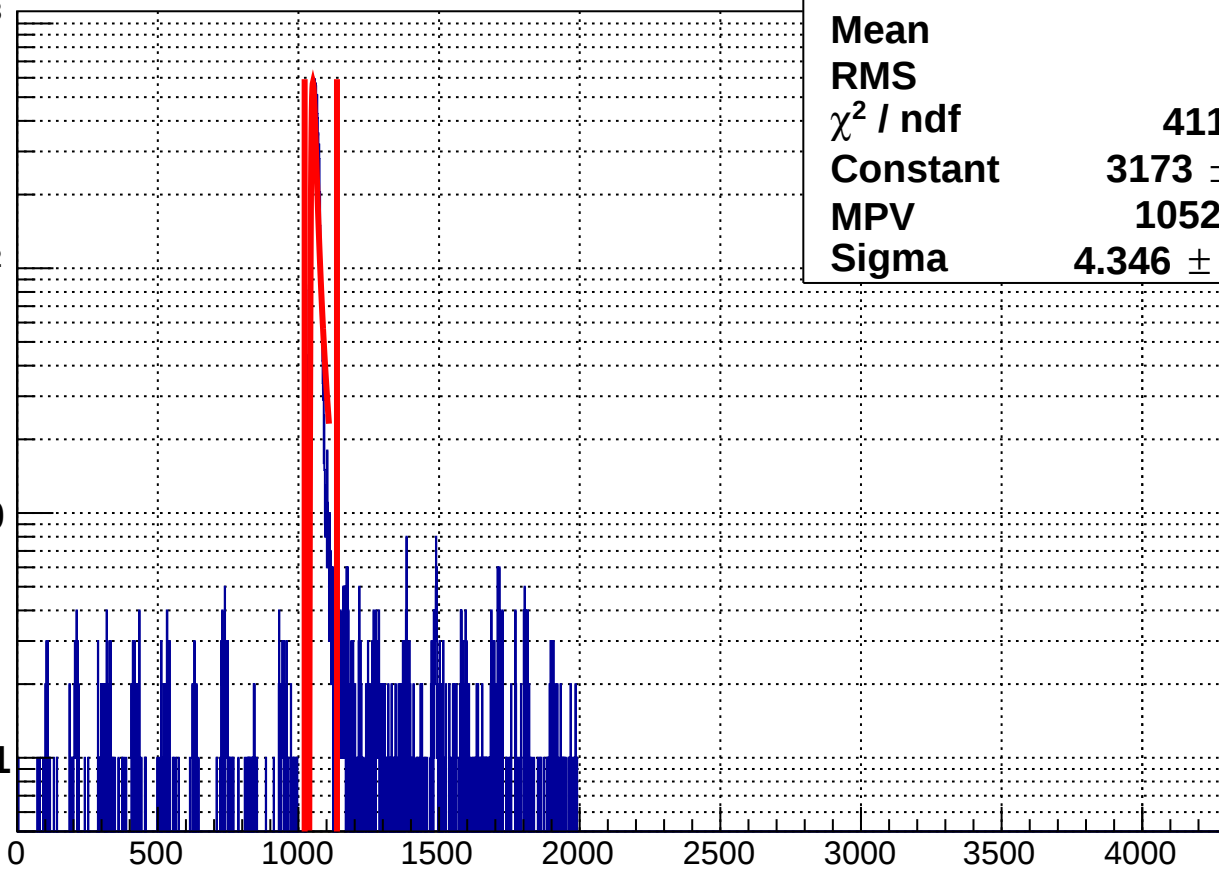
tray_le_77



Run# 17099020

count

10^3
 10^2
10
1



tray_le_78

Entries	17829
Mean	1067
RMS	127.7
χ^2 / ndf	4112 / 81
Constant	3173 ± 42.7
MPV	1052 ± 0.1
Sigma	4.346 ± 0.048

LE time (ns)

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Run# 17099020

tray_le_79

count

10^3
 10^2
10
1

Entries	17648
Mean	1067
RMS	128.1
χ^2 / ndf	4177 / 81
Constant	3185 ± 44.2
MPV	1052 ± 0.1
Sigma	4.225 ± 0.049

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

Tue Apr 11 15:06:12 2017

Run# 17099020

tray_le_80

count

10^3
 10^2
10
1

Entries	17587
Mean	1064
RMS	121.4
χ^2 / ndf	4452 / 83
Constant	3183 ± 46.6
MPV	1051 ± 0.1
Sigma	4.126 ± 0.052

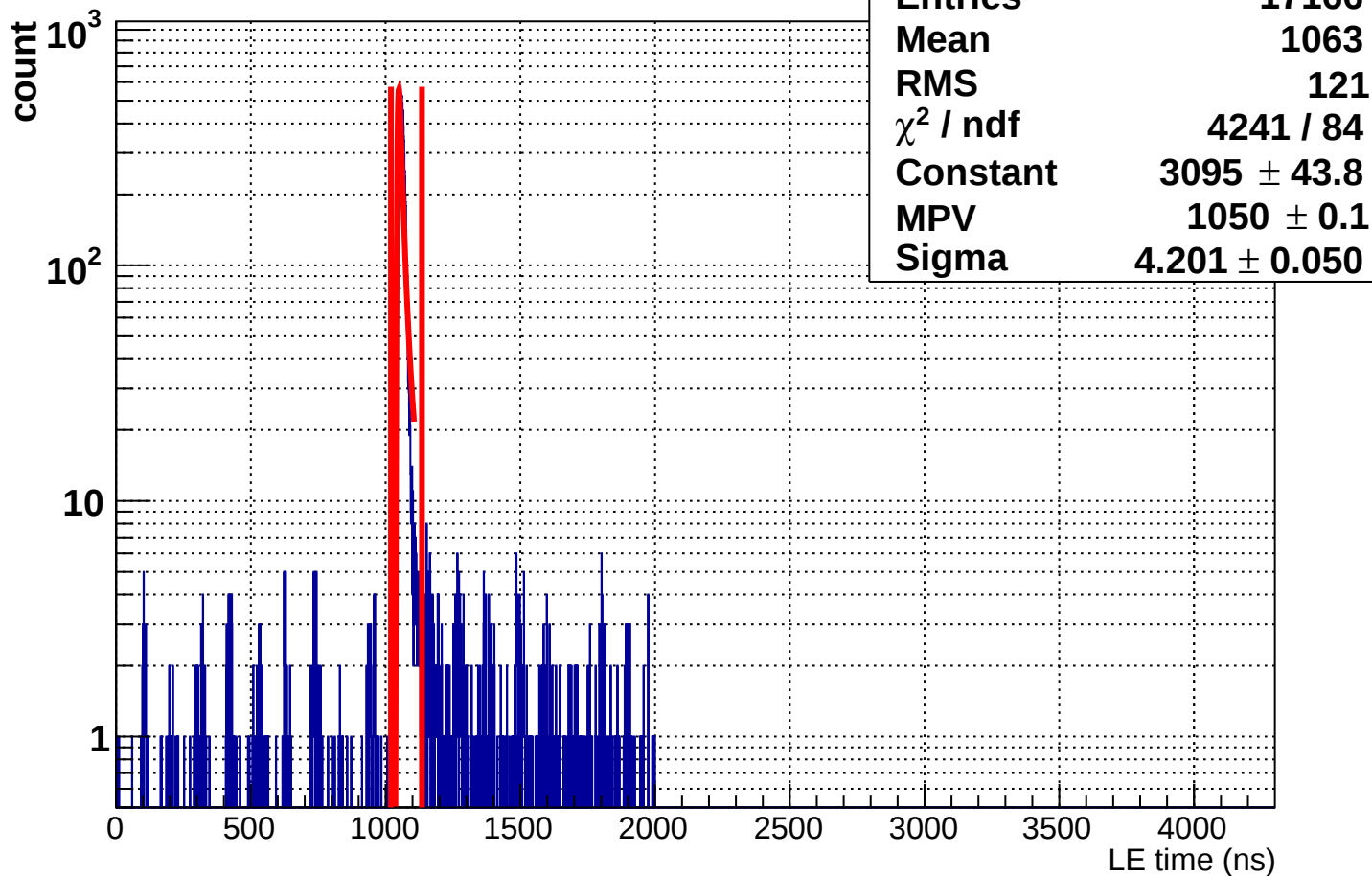
0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

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Run# 17099020

tray_le_81



Tue Apr 11 15:06:12 2017

Run# 17099020

count

10^3
 10^2
10
1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

tray_le_82

Entries	17634
Mean	1064
RMS	122.2
χ^2 / ndf	4306 / 85
Constant	3208 ± 44.2
MPV	1051 ± 0.1
Sigma	4.174 ± 0.048

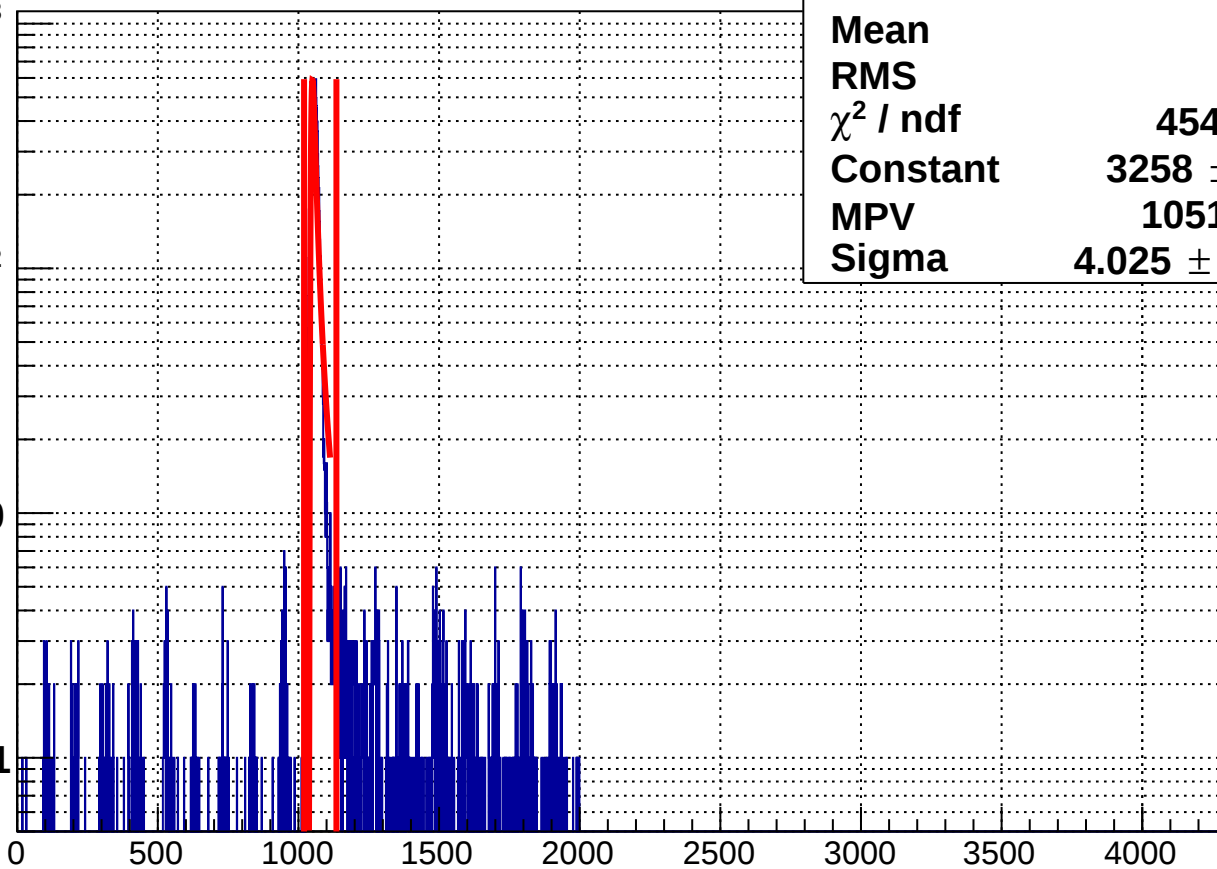
Tue Apr 11 15:06:12 2017

Run# 17099020

tray_le_83

count

10^3
 10^2
10
1



Entries	17704
Mean	1065
RMS	121
χ^2 / ndf	4548 / 89
Constant	3258 ± 46.4
MPV	1051 ± 0.1
Sigma	4.025 ± 0.048

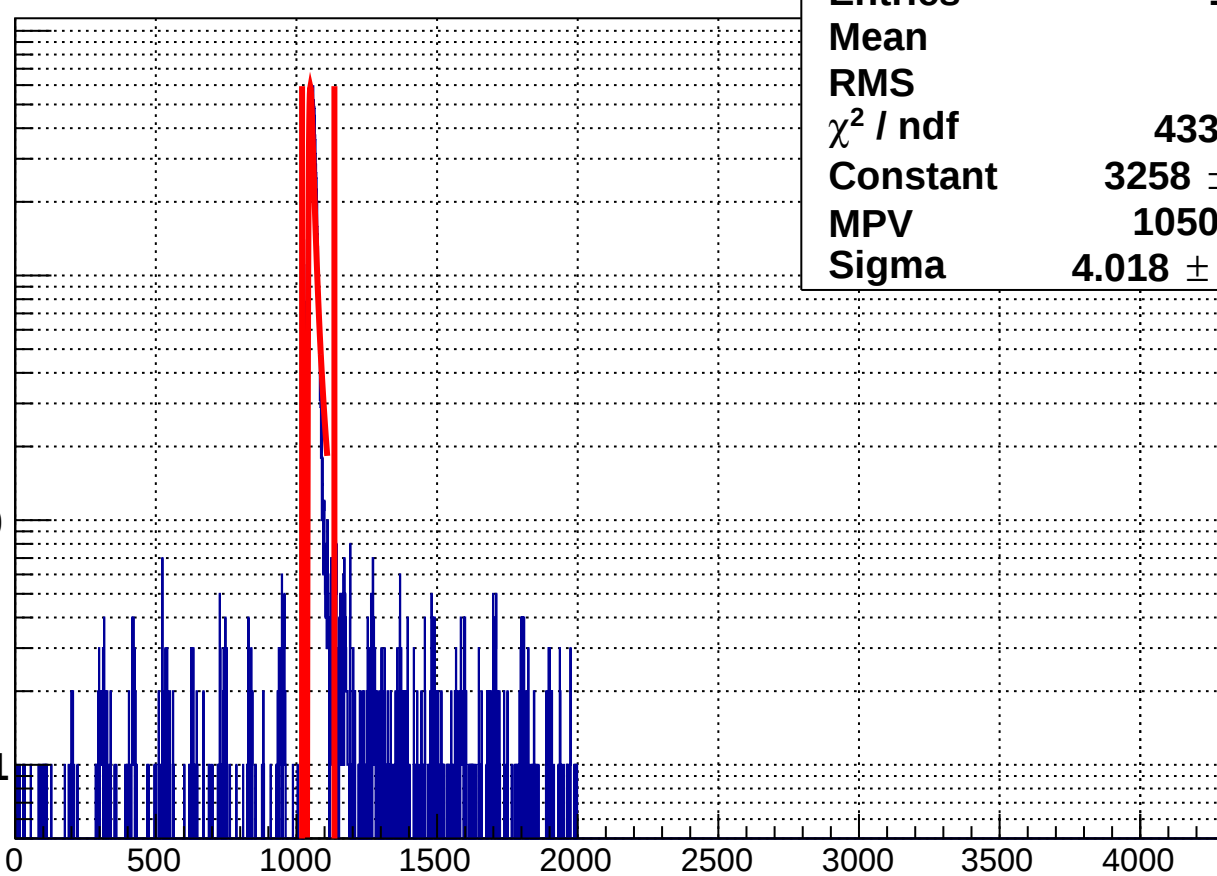
LE time (ns)

Run# 17099020

tray_le_84

count

10^3
 10^2
10
1

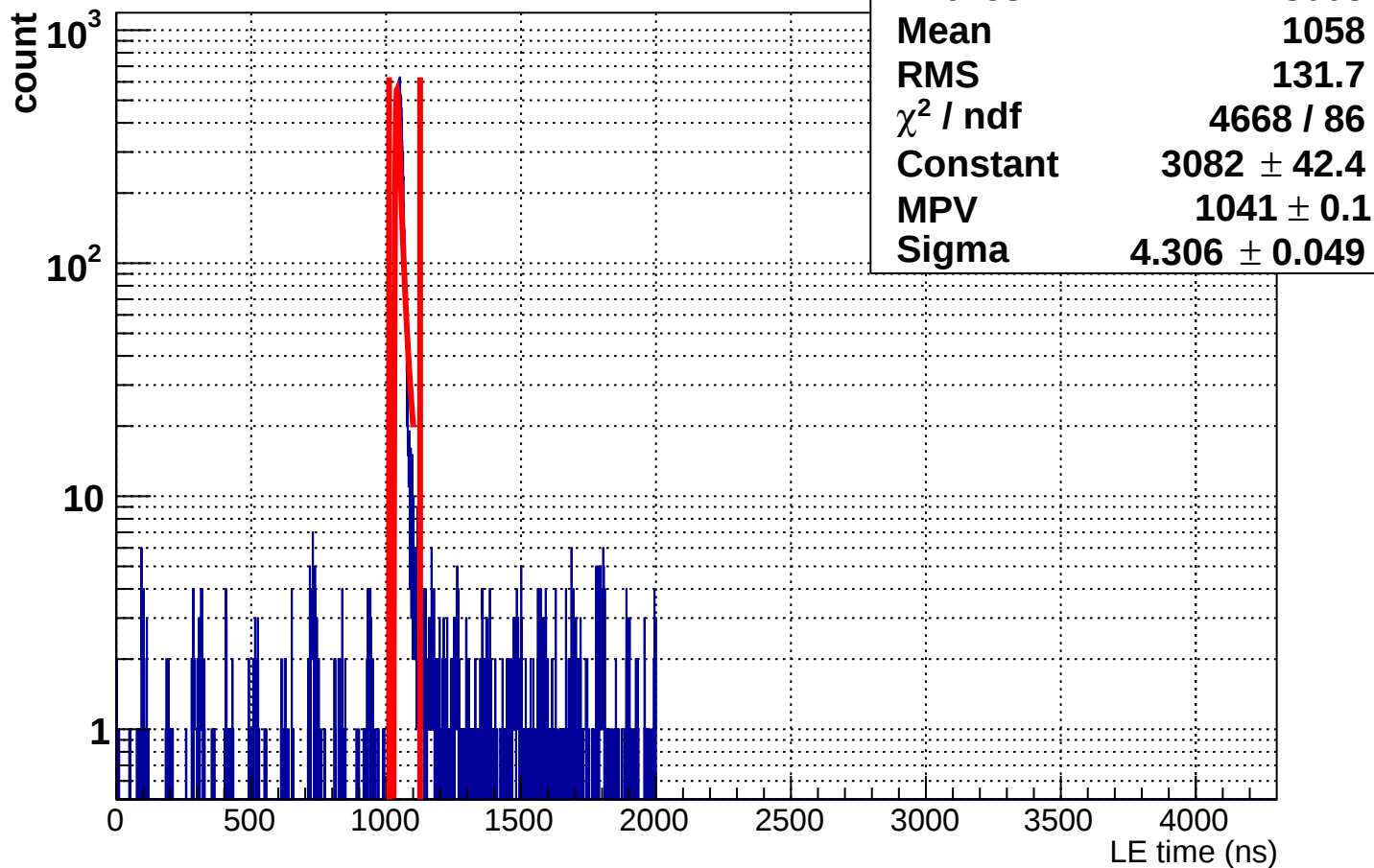


Entries	17494
Mean	1065
RMS	117.9
χ^2 / ndf	4337 / 85
Constant	3258 ± 45.4
MPV	1050 ± 0.1
Sigma	4.018 ± 0.046

LE time (ns)

Run# 17099020

tray_le_85



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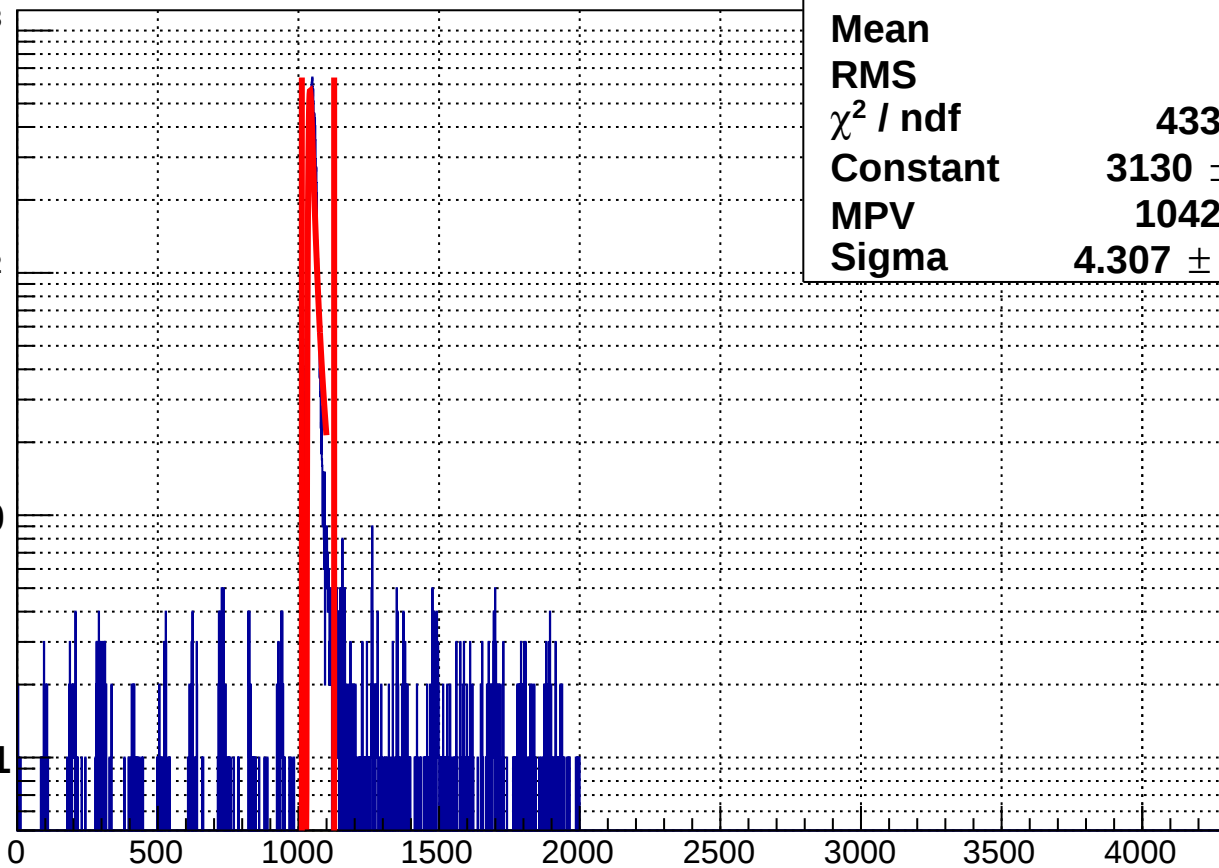
Run# 17099020

tray_le_86

count

10^3
 10^2
10
1

Entries	17703
Mean	1056
RMS	122.9
χ^2 / ndf	4339 / 83
Constant	3130 ± 42.9
MPV	1042 ± 0.1
Sigma	4.307 ± 0.049



LE time (ns)

Run# 17099020

tray_le_87

count

10^3
 10^2
10
1

Entries	18075
Mean	1055
RMS	127
χ^2 / ndf	4113 / 82
Constant	3126 ± 41.9
MPV	1042 ± 0.1
Sigma	4.498 ± 0.050

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

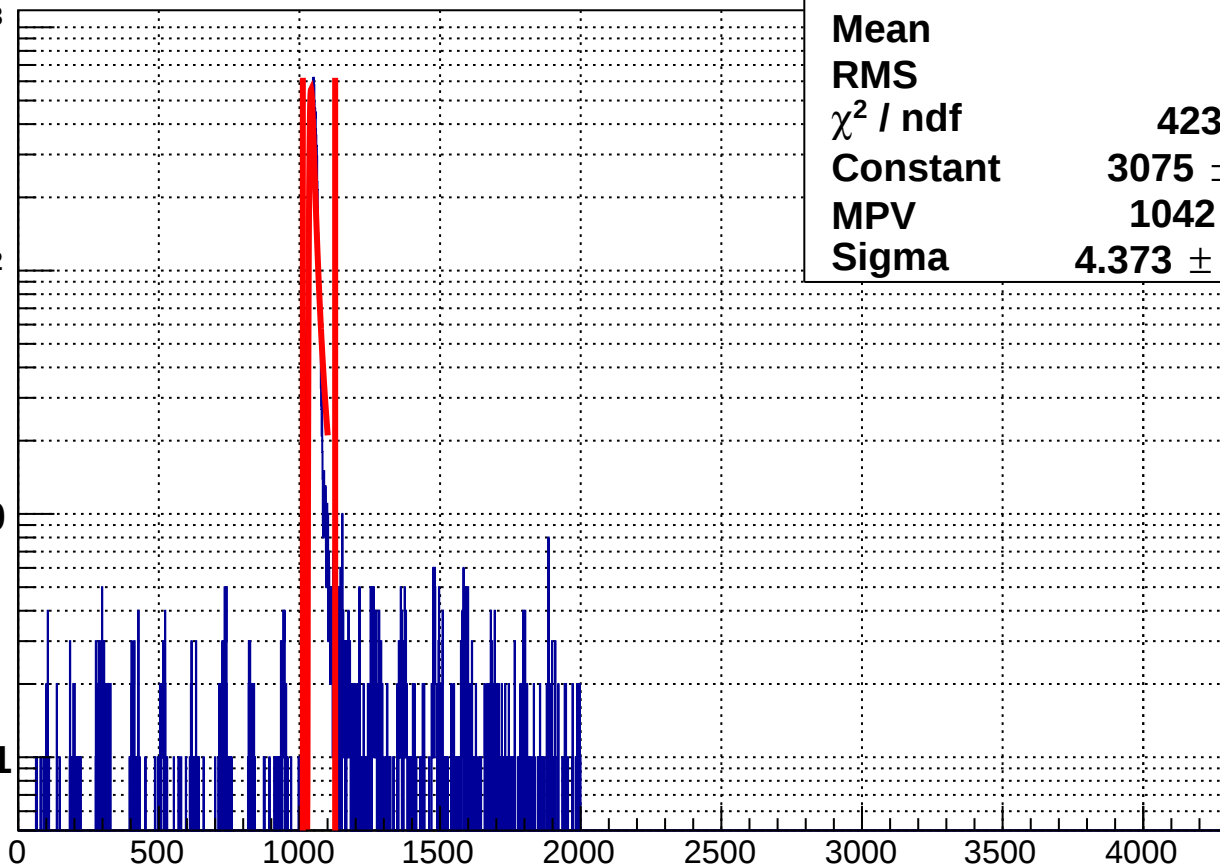
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Run# 17099020

tray_le_88

count

10^3
 10^2
10
1



Entries	17670
Mean	1057
RMS	125.5
χ^2 / ndf	4233 / 84
Constant	3075 ± 43.9
MPV	1042 ± 0.2
Sigma	4.373 ± 0.053

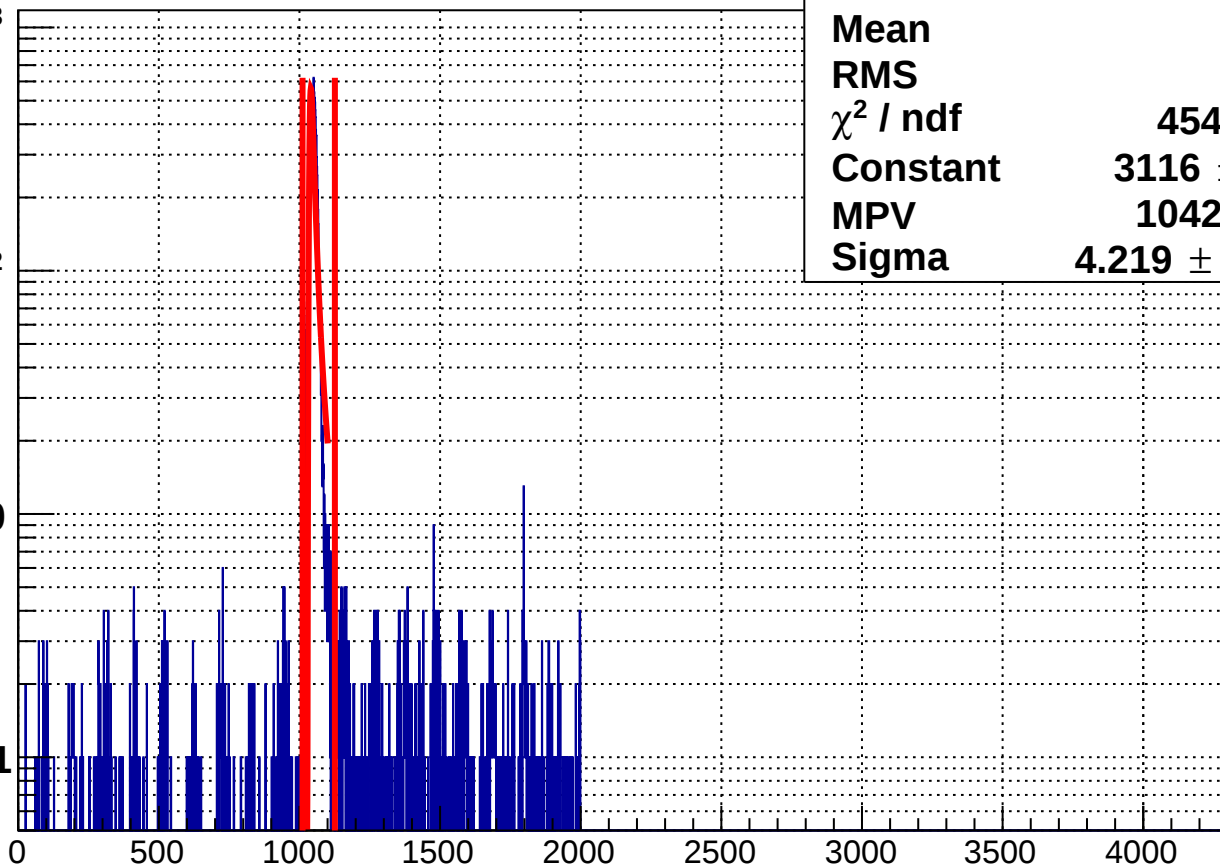
LE time (ns)

Run# 17099020

tray_le_89

count

10^3
 10^2
10
1



Entries	17733
Mean	1057
RMS	131.2
χ^2 / ndf	4548 / 87
Constant	3116 ± 43.1
MPV	1042 ± 0.1
Sigma	4.219 ± 0.048

LE time (ns)

Run# 17099020

tray_le_90

count

10^3
 10^2
10
1

Entries	18170
Mean	1050
RMS	125.6
χ^2 / ndf	4733 / 82
Constant	3212 ± 44.8
MPV	1035 ± 0.1
Sigma	4.193 ± 0.049

0 500 1000 1500 2000 2500 3000 3500 4000

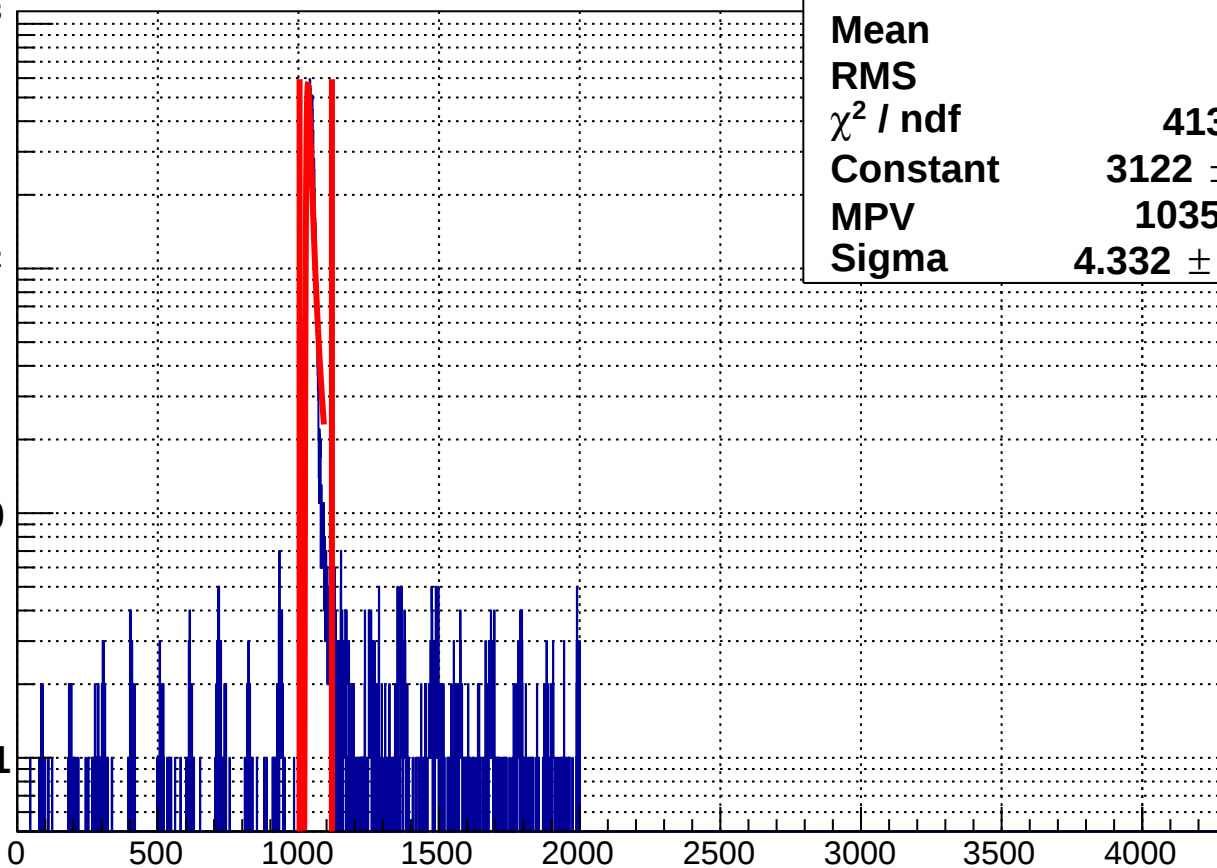
LE time (ns)

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Run# 17099020

count

10^3
 10^2
10
1



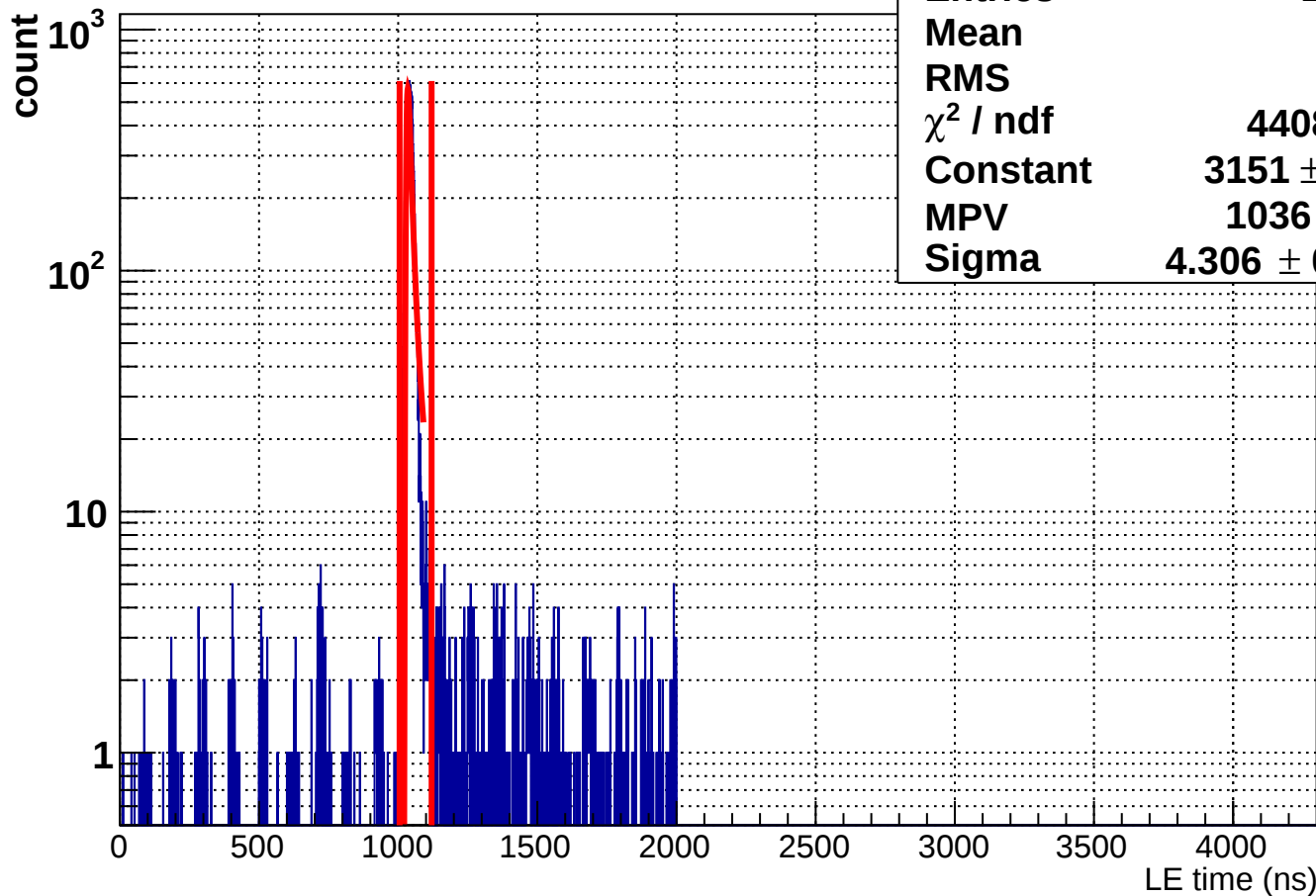
LE time (ns)

tray_le_91

Entries	17471
Mean	1051
RMS	120.3
χ^2 / ndf	4134 / 81
Constant	3122 ± 44.9
MPV	1035 ± 0.1
Sigma	4.332 ± 0.054

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Run# 17099020



tray_le_92

Entries	17827
Mean	1051
RMS	122
χ^2 / ndf	4408 / 82
Constant	3151 ± 44.6
MPV	1036 ± 0.1
Sigma	4.306 ± 0.052

Run# 17099020

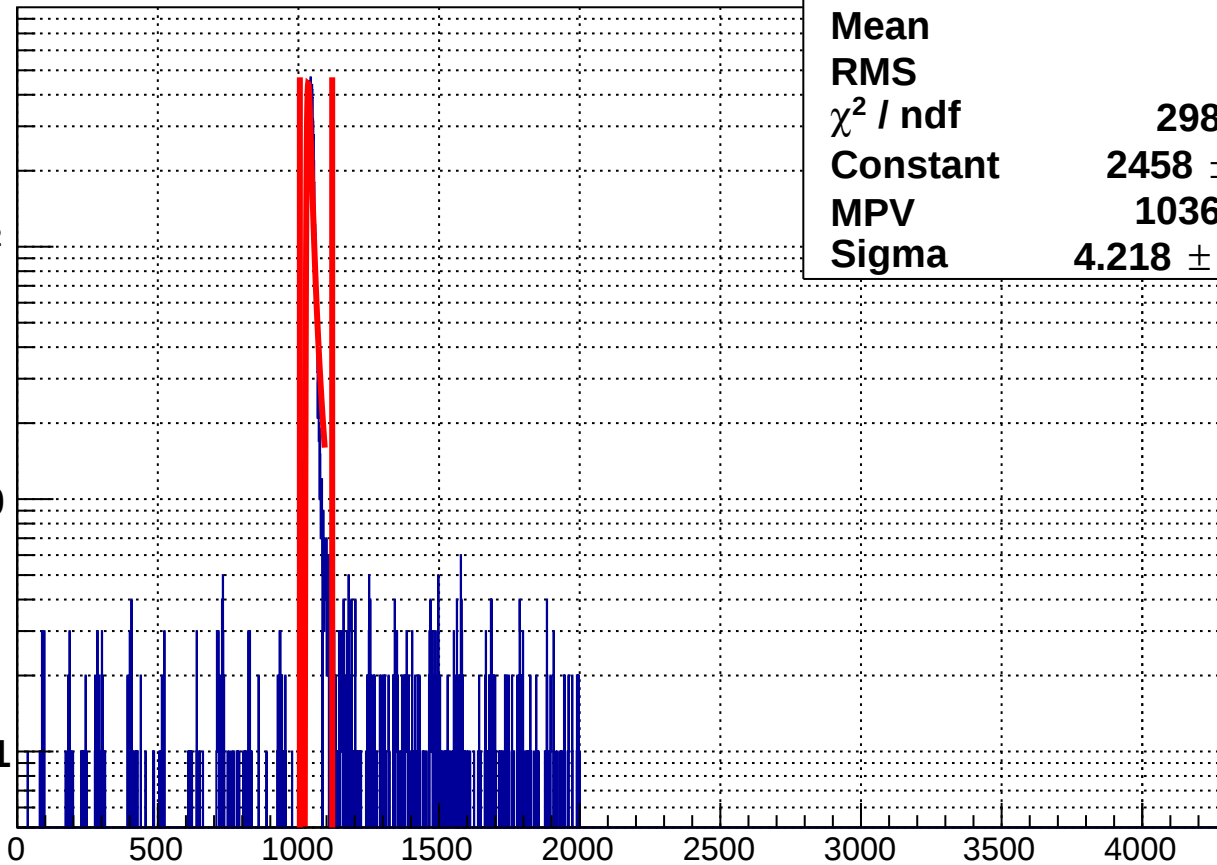
tray_le_93

count

10^2

10

1



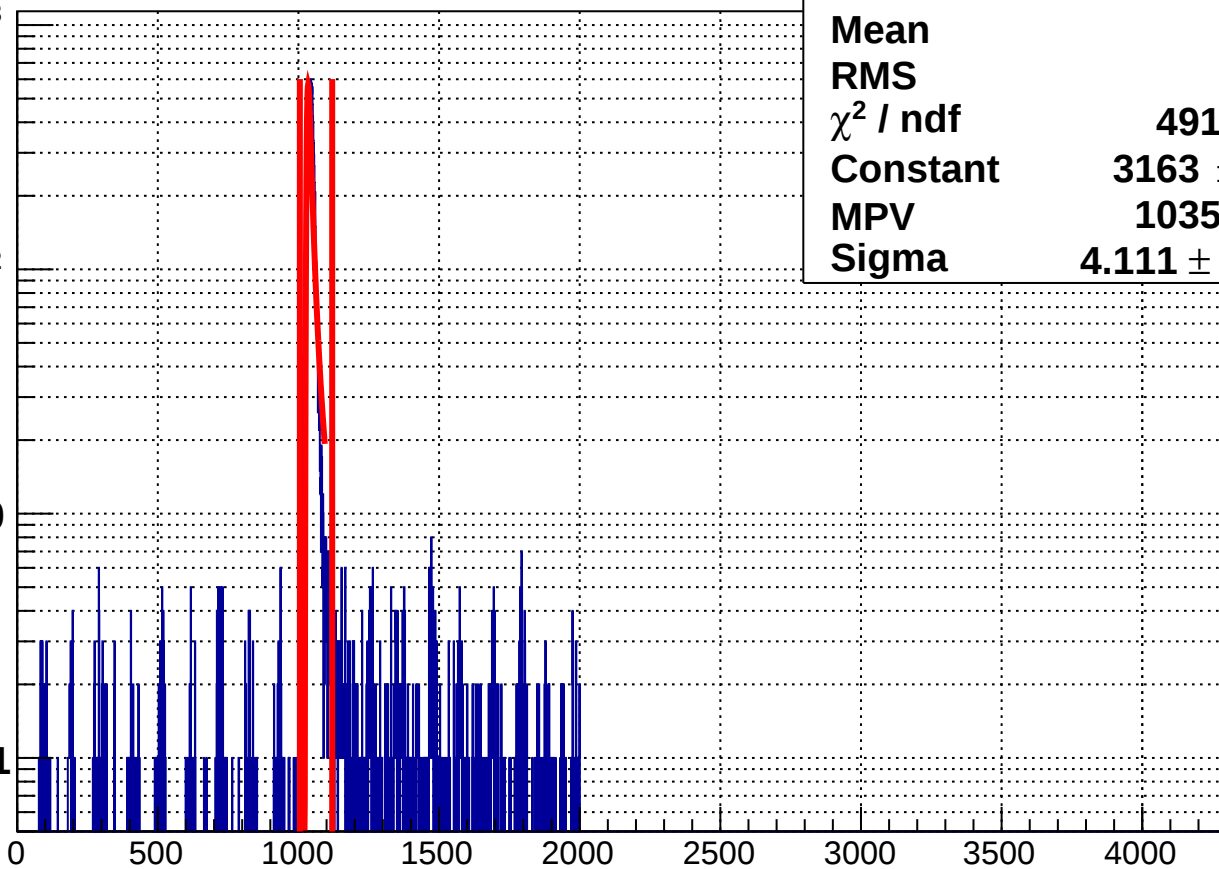
LE time (ns)

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Run# 17099020

count

10^3
 10^2
10
1



tray_le_94

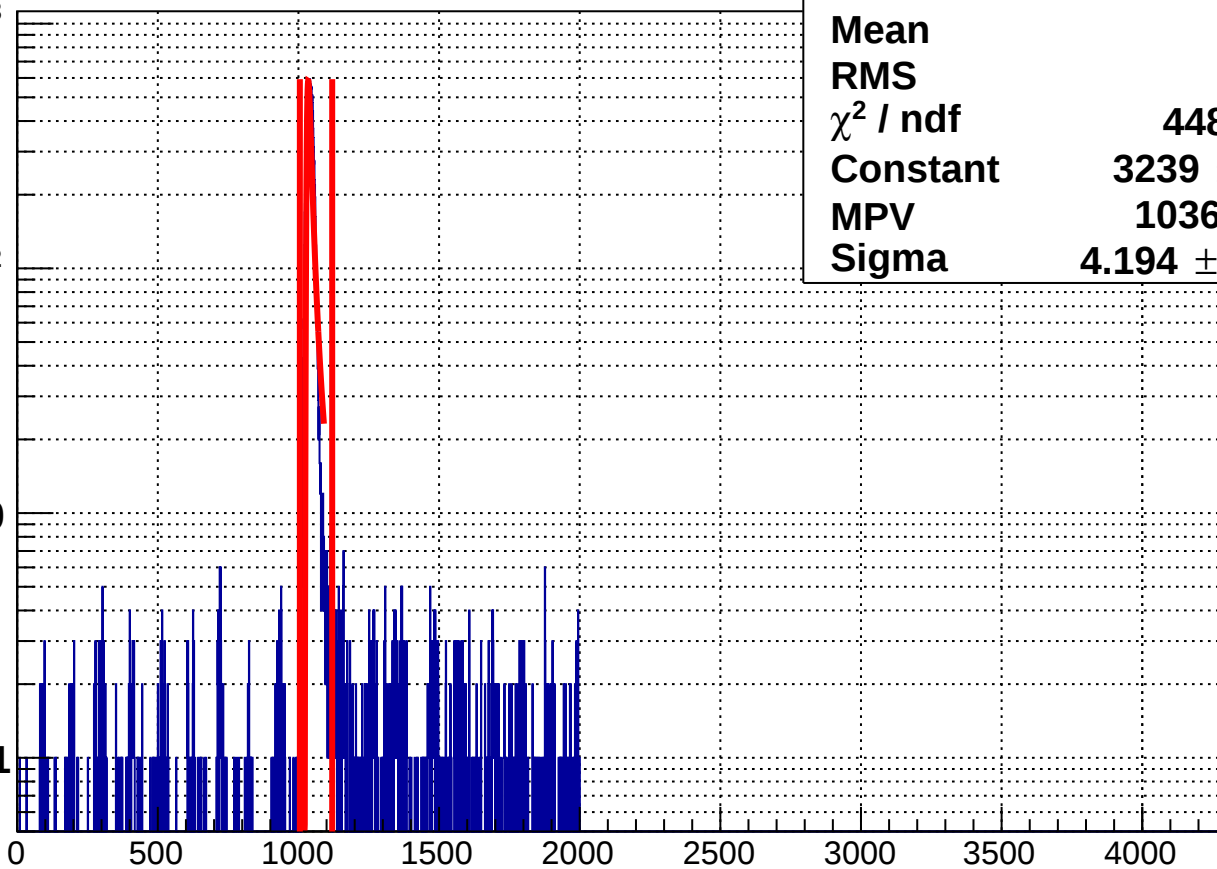
Entries	18017
Mean	1051
RMS	128.6
χ^2 / ndf	4919 / 86
Constant	3163 ± 44.1
MPV	1035 ± 0.1
Sigma	4.111 ± 0.047

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1



tray_le_95

Entries	18011
Mean	1050
RMS	127.2
χ^2 / ndf	4486 / 81
Constant	3239 ± 46.1
MPV	1036 ± 0.1
Sigma	4.194 ± 0.051

LE time (ns)

Tue Apr 11 15:06:12 2017

Run# 17099020

tray_le_96

count

10^3
 10^2
10
1

Entries	17519
Mean	1062
RMS	121.1
χ^2 / ndf	4681 / 86
Constant	3257 ± 48.8
MPV	1049 ± 0.2
Sigma	3.9 ± 0.0

0 500 1000 1500 2000 2500 3000 3500 4000

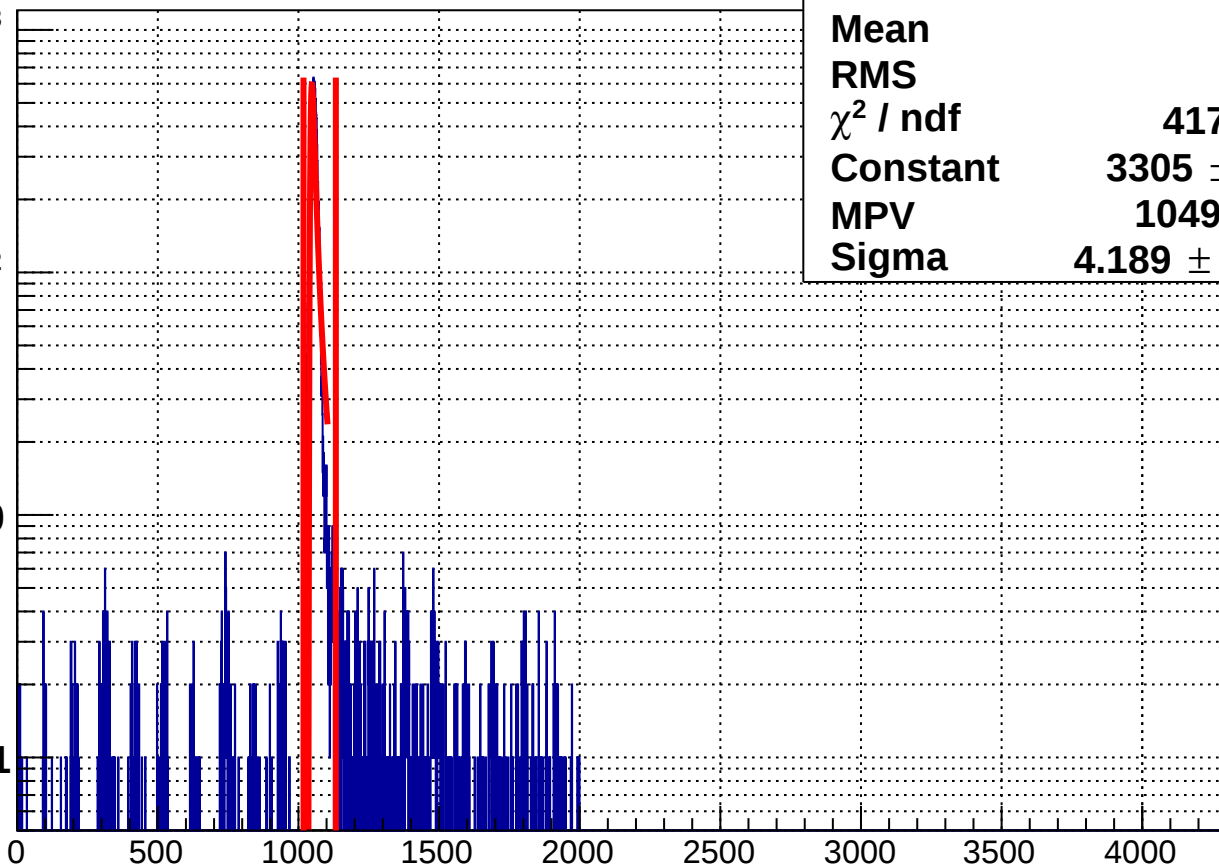
LE time (ns)

Tue Apr 11 15:06:12 2017

Run# 17099020

count

10^3
 10^2
10
1



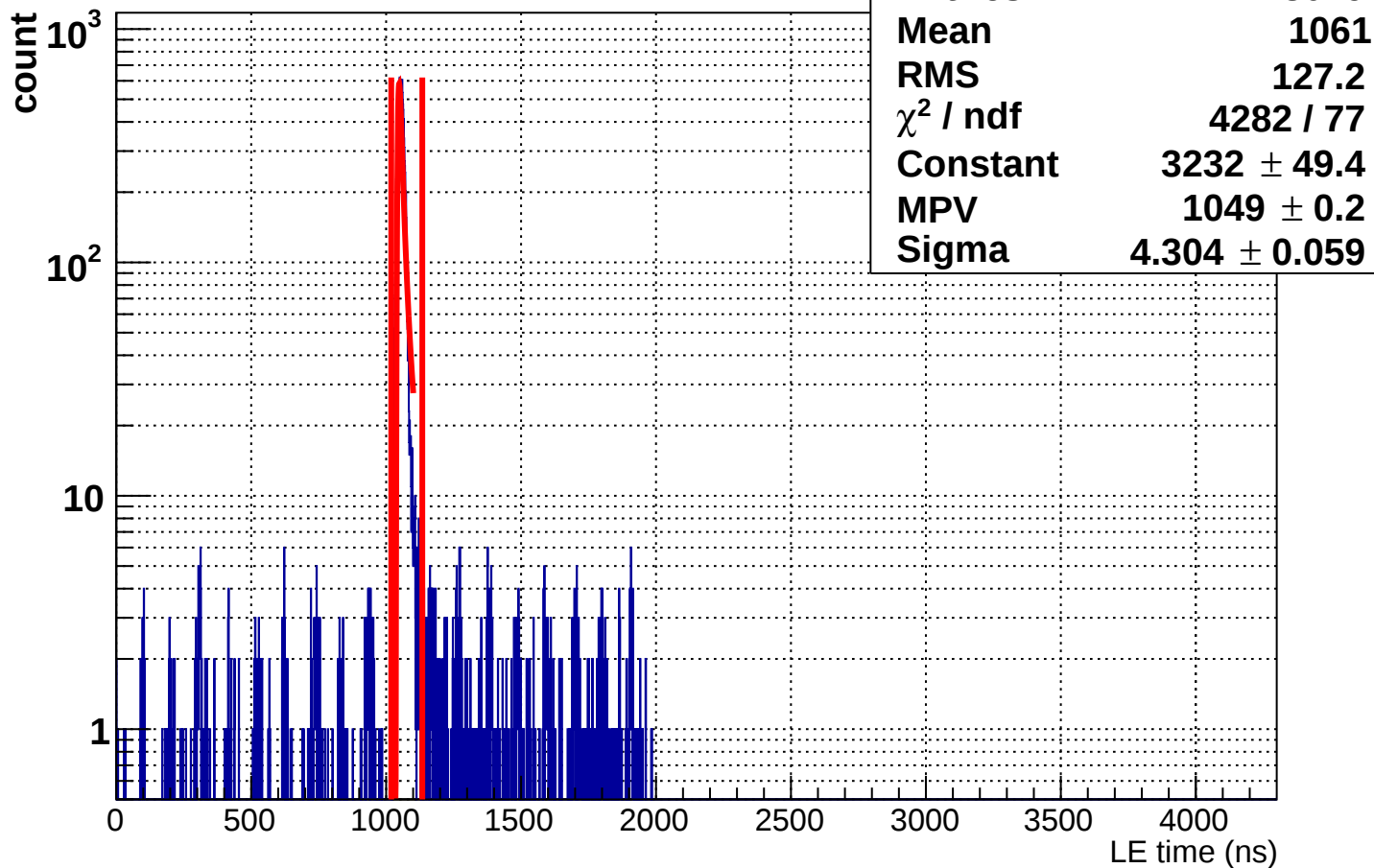
tray_le_97

Entries	17930
Mean	1060
RMS	122
χ^2 / ndf	4176 / 81
Constant	3305 ± 47.9
MPV	1049 ± 0.1
Sigma	4.189 ± 0.053

LE time (ns)

Run# 17099020

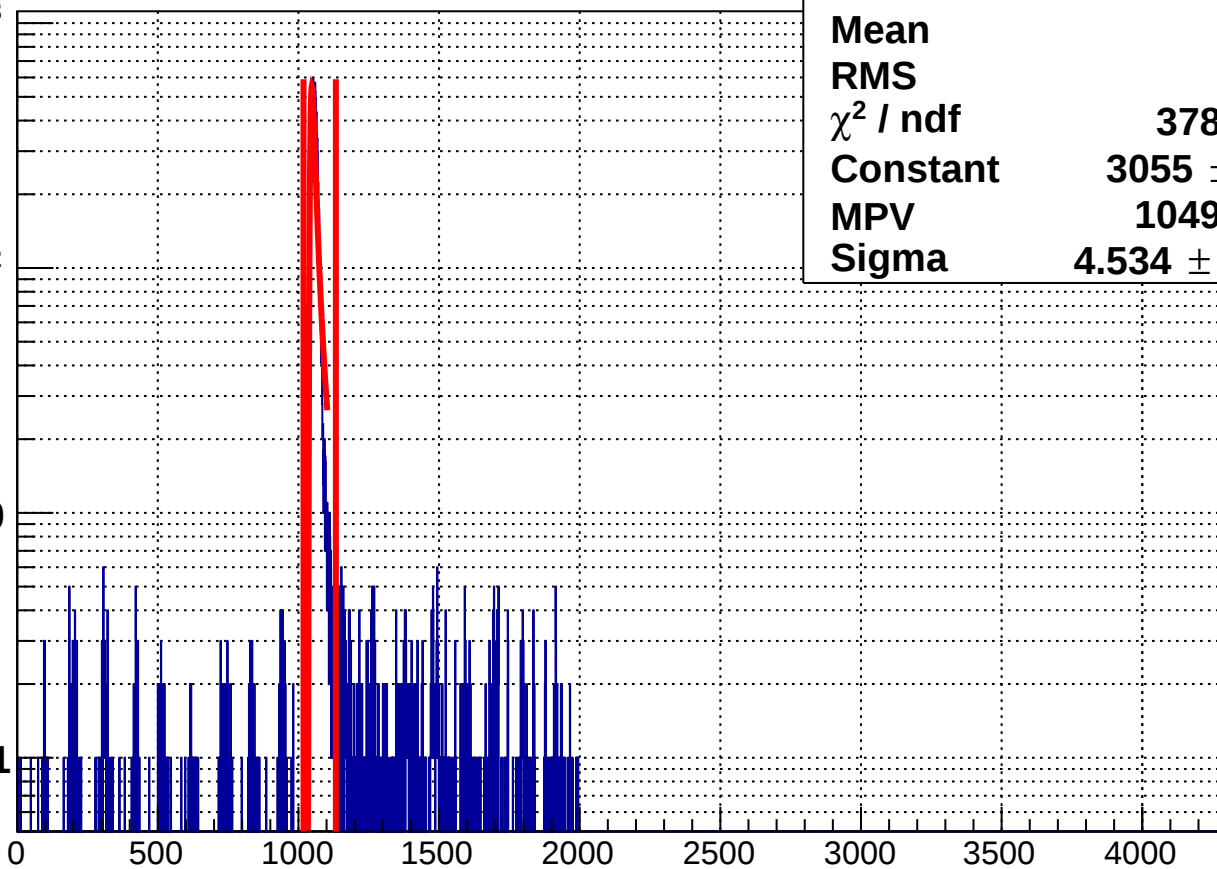
tray_le_98



Run# 17099020

count

10^3
 10^2
10
1



LE time (ns)

tray_le_99

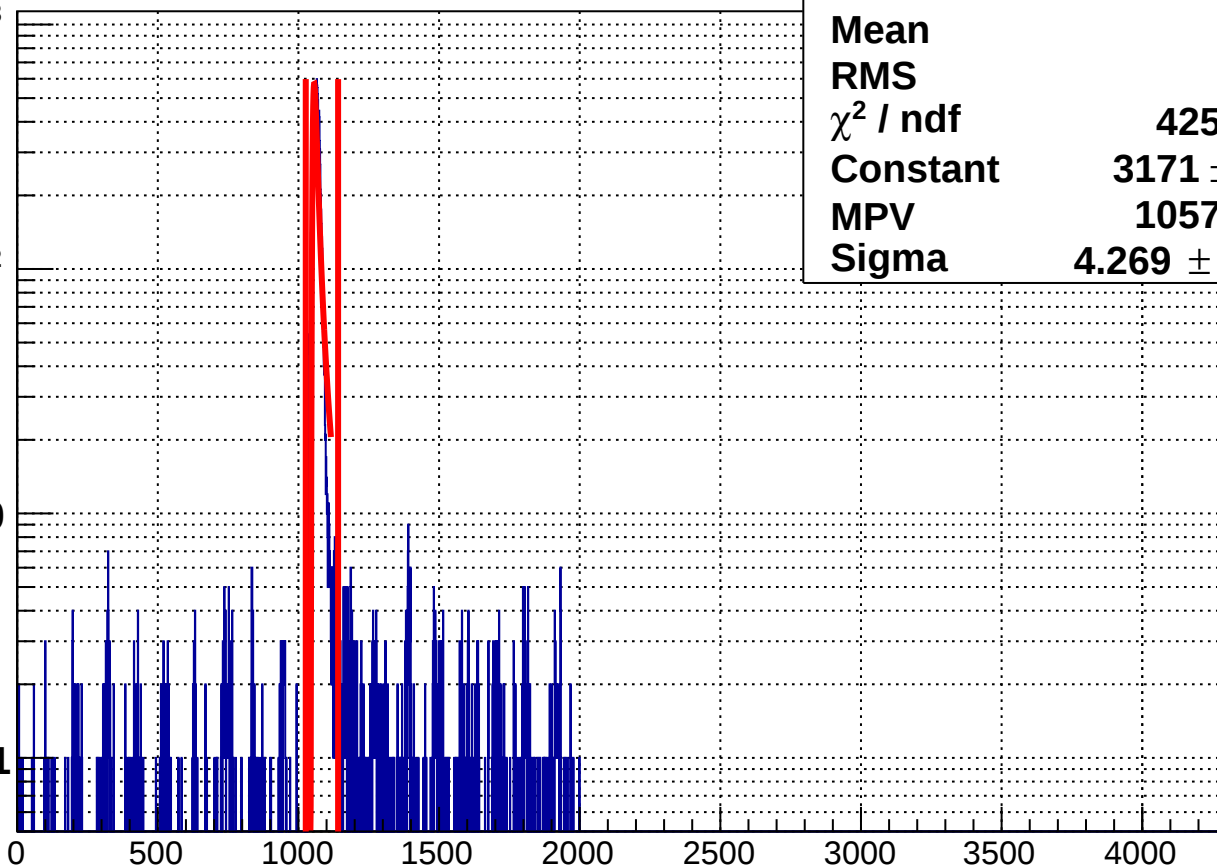
Entries	17363
Mean	1063
RMS	121.3
χ^2 / ndf	3788 / 77
Constant	3055 ± 43.5
MPV	1049 ± 0.1
Sigma	4.534 ± 0.056

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Run# 17099020

count

10^3
 10^2
10
1



tray_le_100

Entries	17798
Mean	1070
RMS	127.3
χ^2 / ndf	4255 / 84
Constant	3171 ± 42.5
MPV	1057 ± 0.1
Sigma	4.269 ± 0.047

LE time (ns)

Tue Apr 11 15:06:13 2017

Run# 17099020

tray_le_101

count

10^3
 10^2
10
1

Entries	17851
Mean	1074
RMS	145.9
χ^2 / ndf	4114 / 84
Constant	3187 ± 42.9
MPV	1057 ± 0.1
Sigma	4.311 ± 0.048

0 500 1000 1500 2000 2500 3000 3500 4000

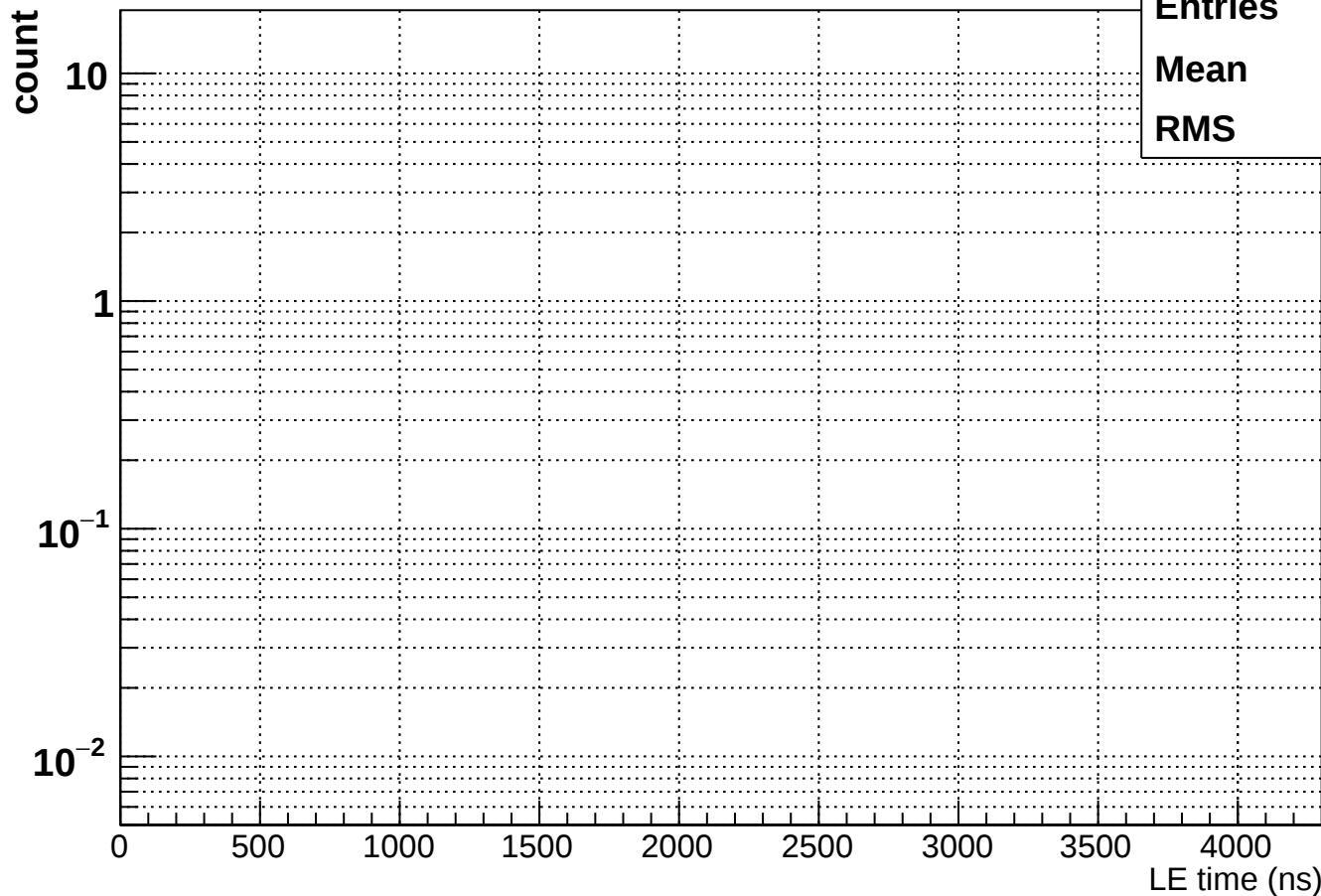
LE time (ns)

Tue Apr 11 15:06:13 2017

Run# 17099020

tray_le_102

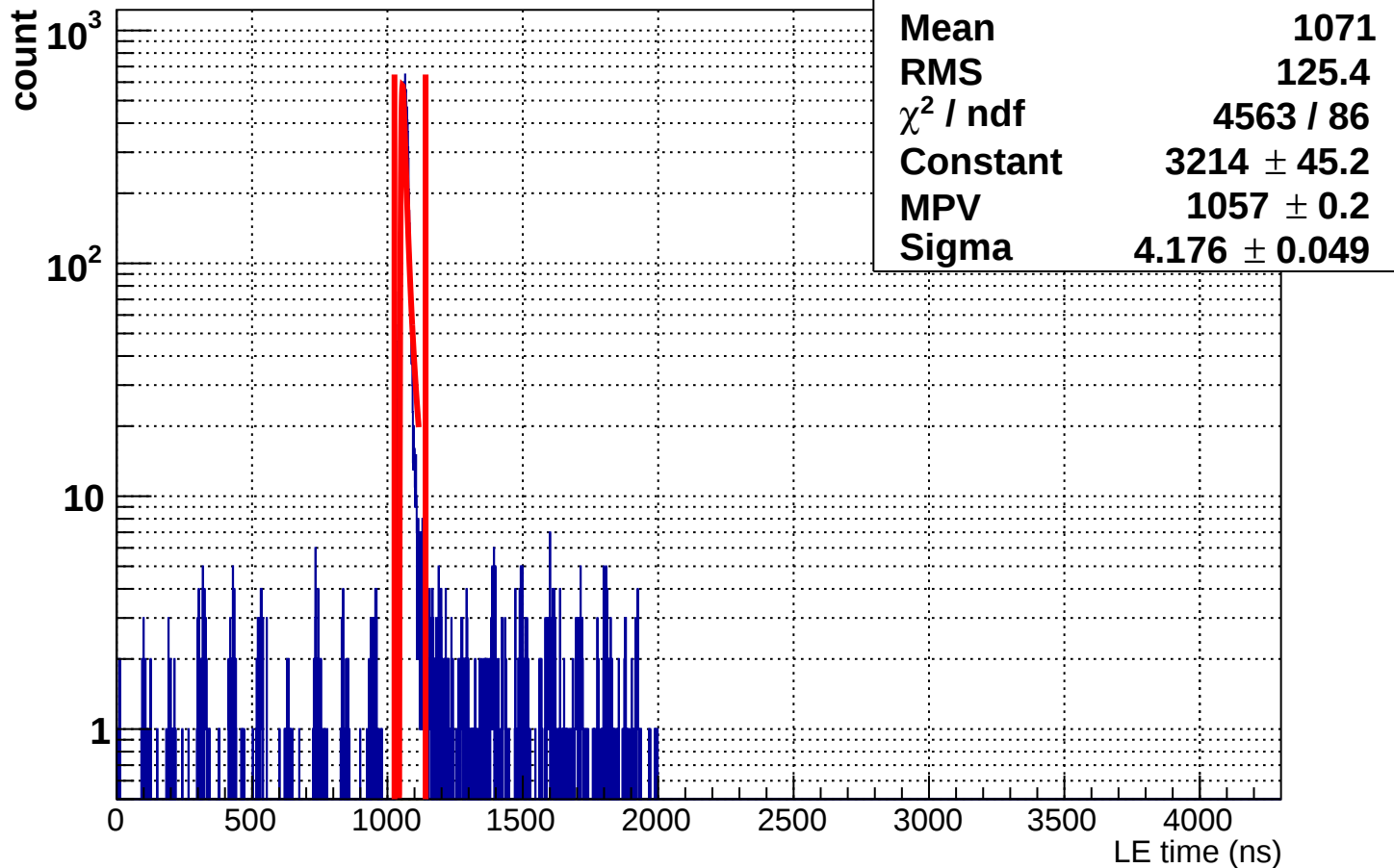
Entries	0
Mean	0
RMS	0



Run# 17099020

tray_le_103

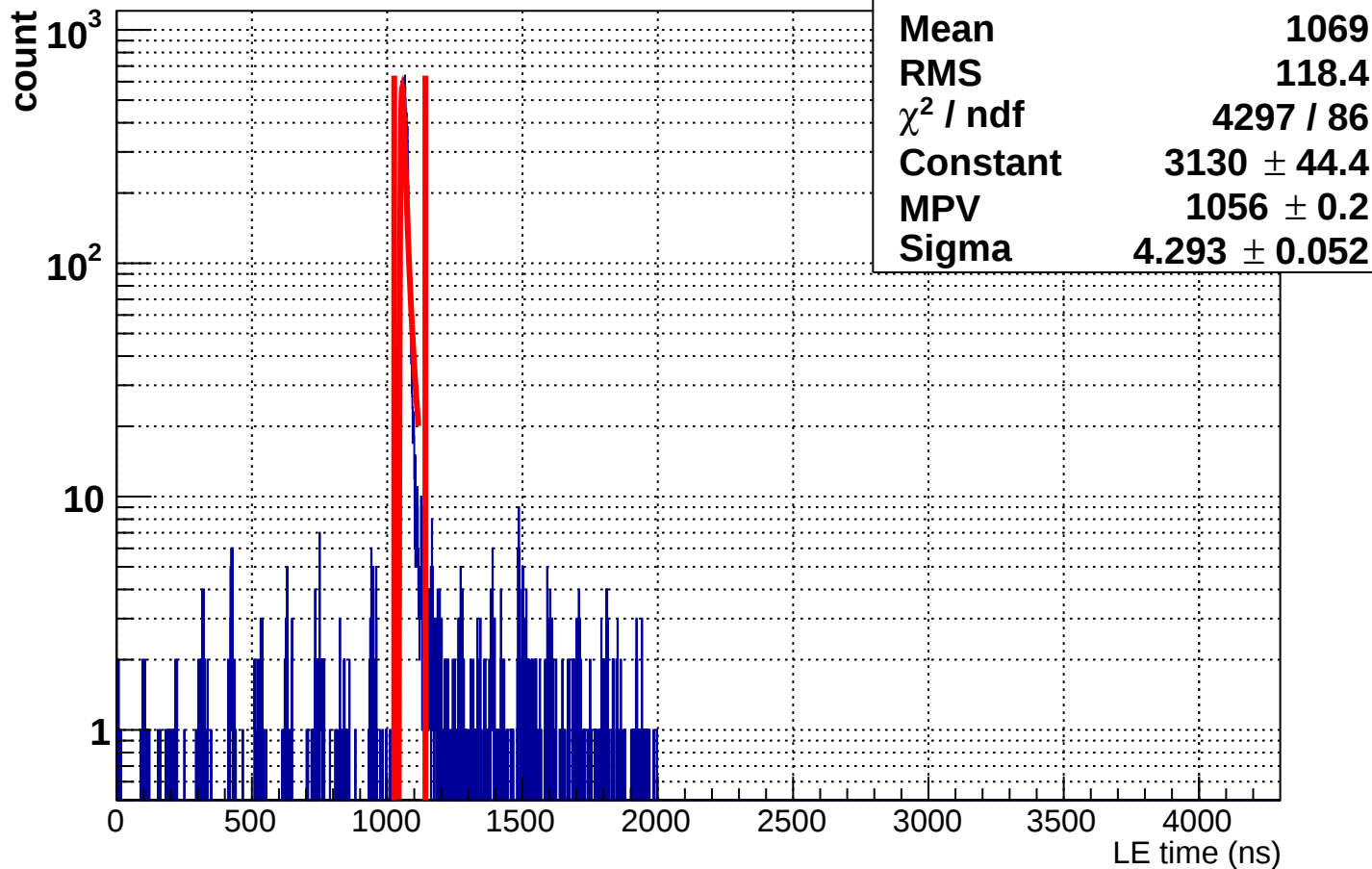
count



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Run# 17099020

tray_le_104

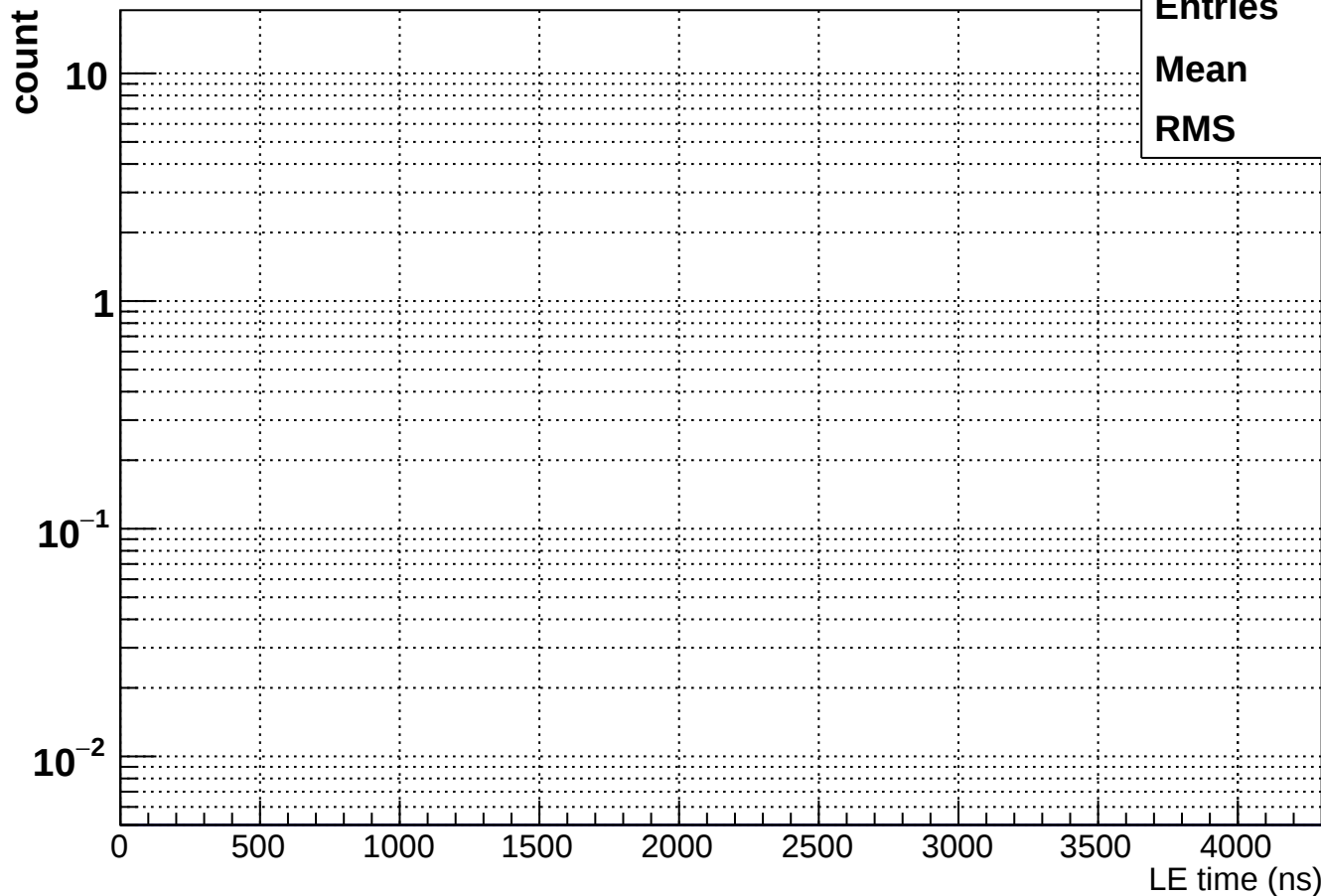


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Run# 17099020

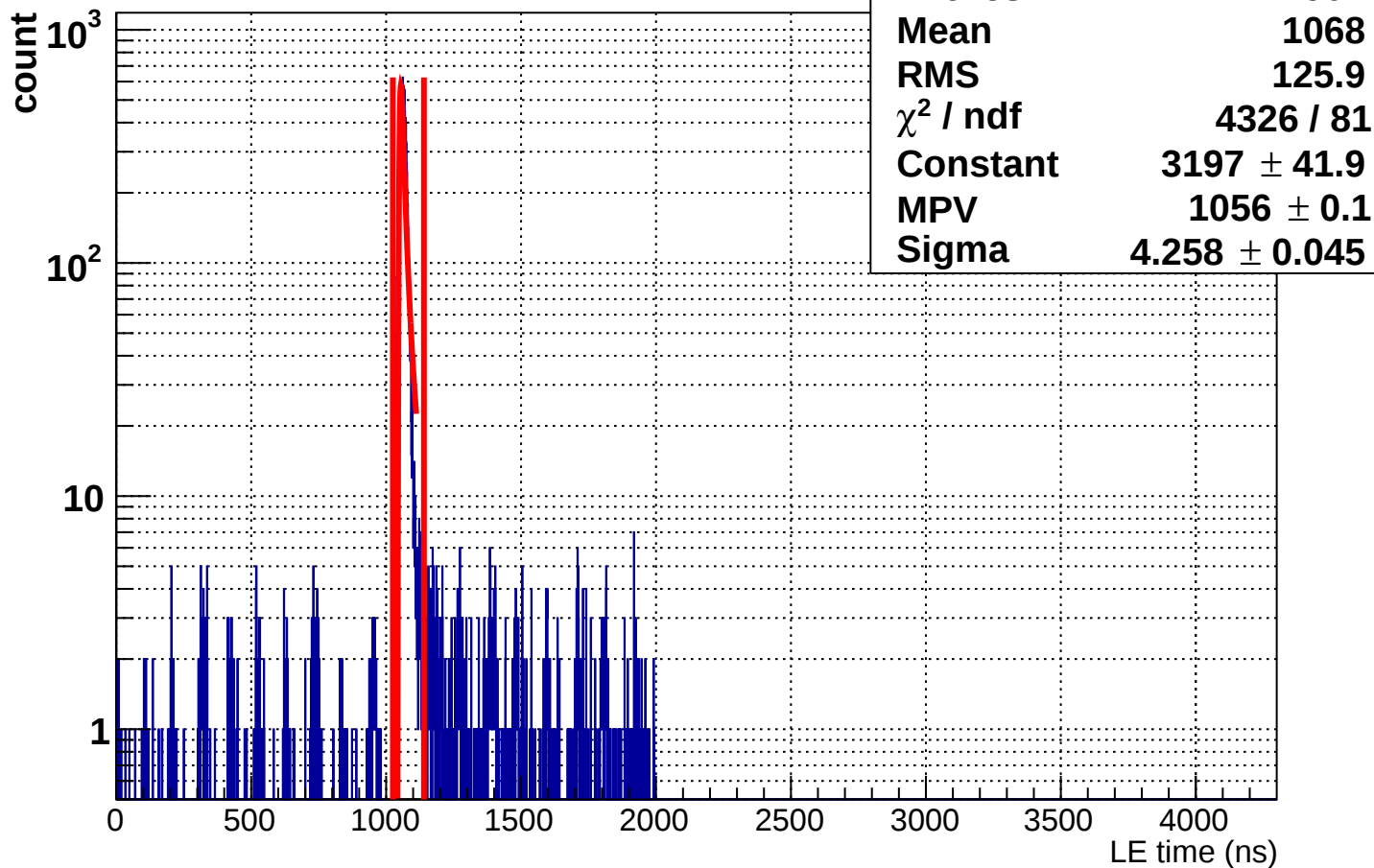
tray_le_105

Entries	0
Mean	0
RMS	0



Run# 17099020

tray_le_106



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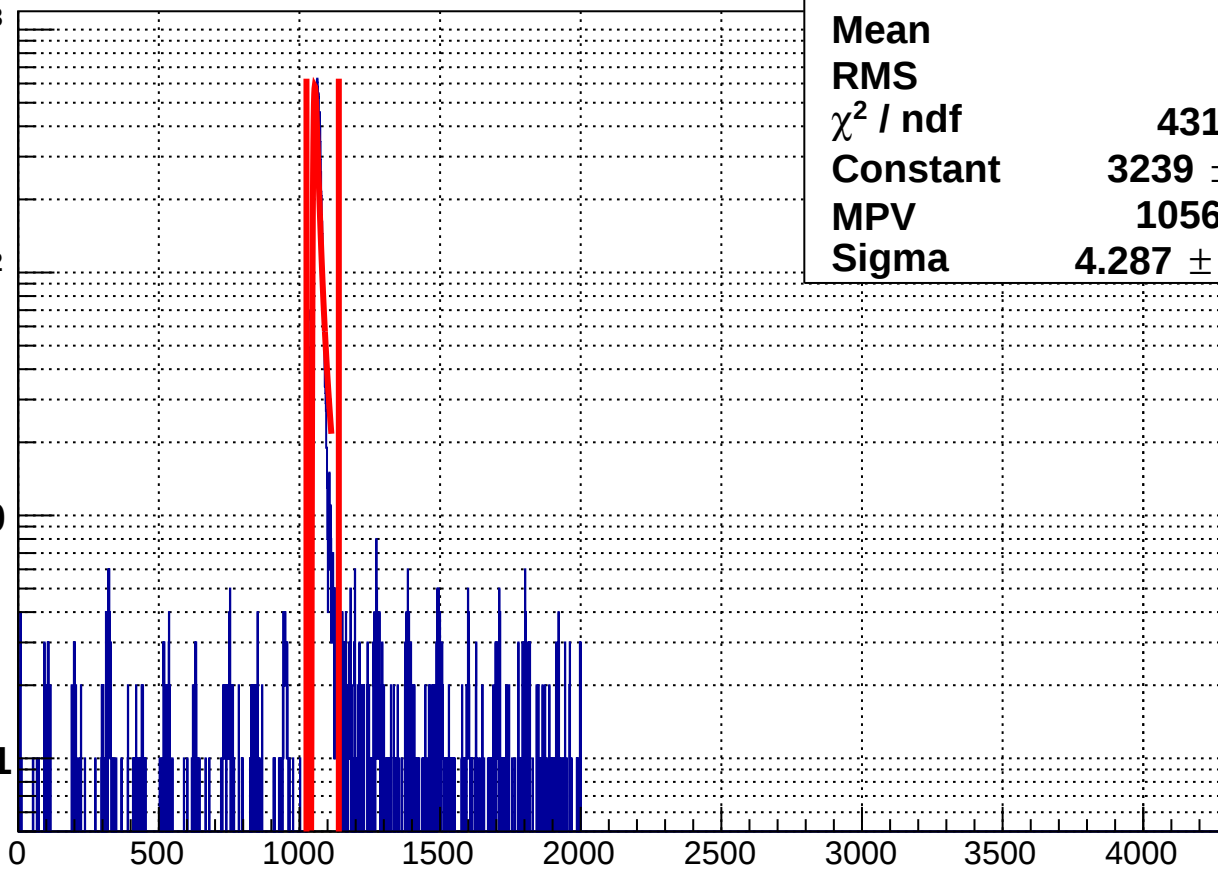
Run# 17099020

tray_le_107

count

10^3
 10^2
10
1

Entries	18115
Mean	1068
RMS	125.8
χ^2 / ndf	4315 / 84
Constant	3239 ± 42.8
MPV	1056 ± 0.1
Sigma	4.287 ± 0.046



LE time (ns)

Run# 17099020

tray_le_108

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

13584

Mean

1069

RMS

129.2

χ^2 / ndf

2602 / 75

Constant

2458 ± 37.2

MPV

1057 ± 0.1

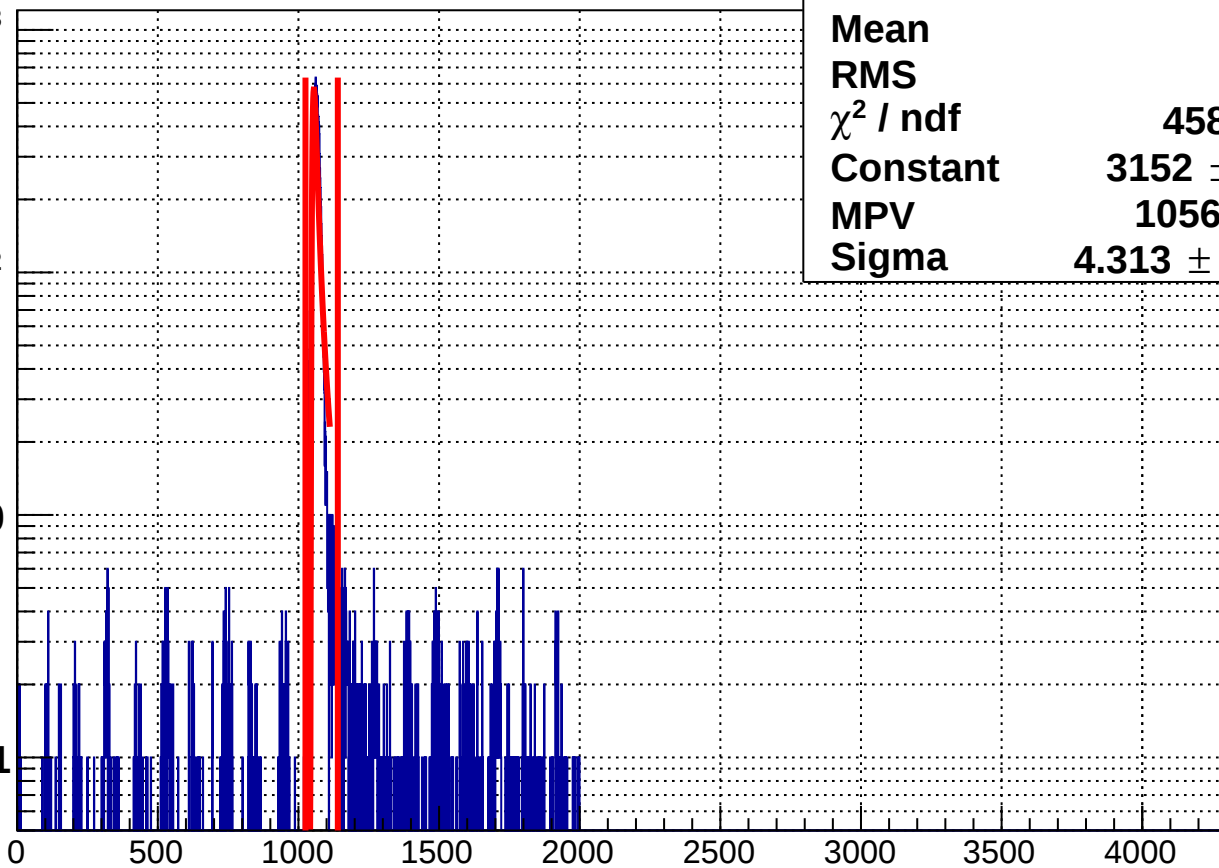
Sigma

4.546 ± 0.058

Run# 17099020

count

10^3
 10^2
10
1



tray_le_109

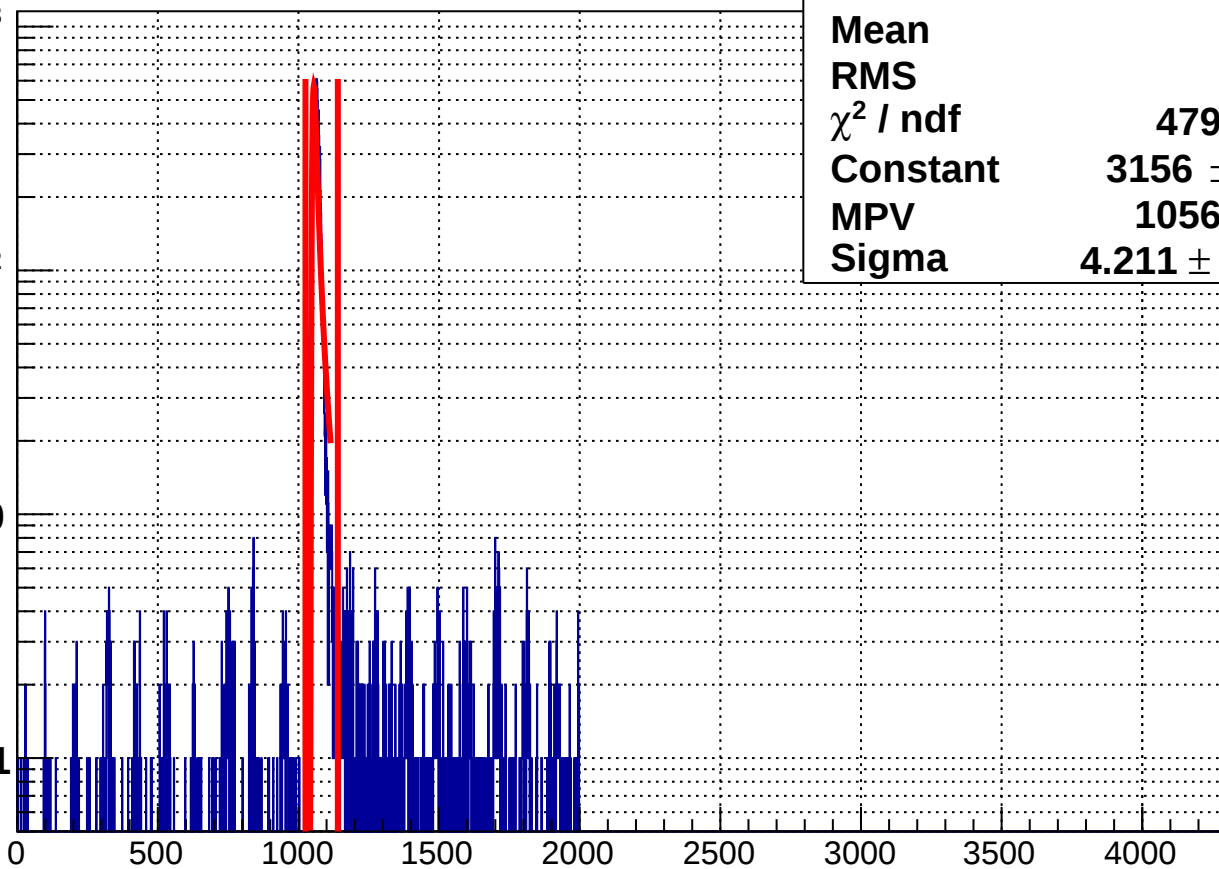
Entries	18094
Mean	1068
RMS	123.5
χ^2 / ndf	4585 / 81
Constant	3152 ± 43.3
MPV	1056 ± 0.1
Sigma	4.313 ± 0.049

LE time (ns)

Run# 17099020

count

10^3
 10^2
10
1



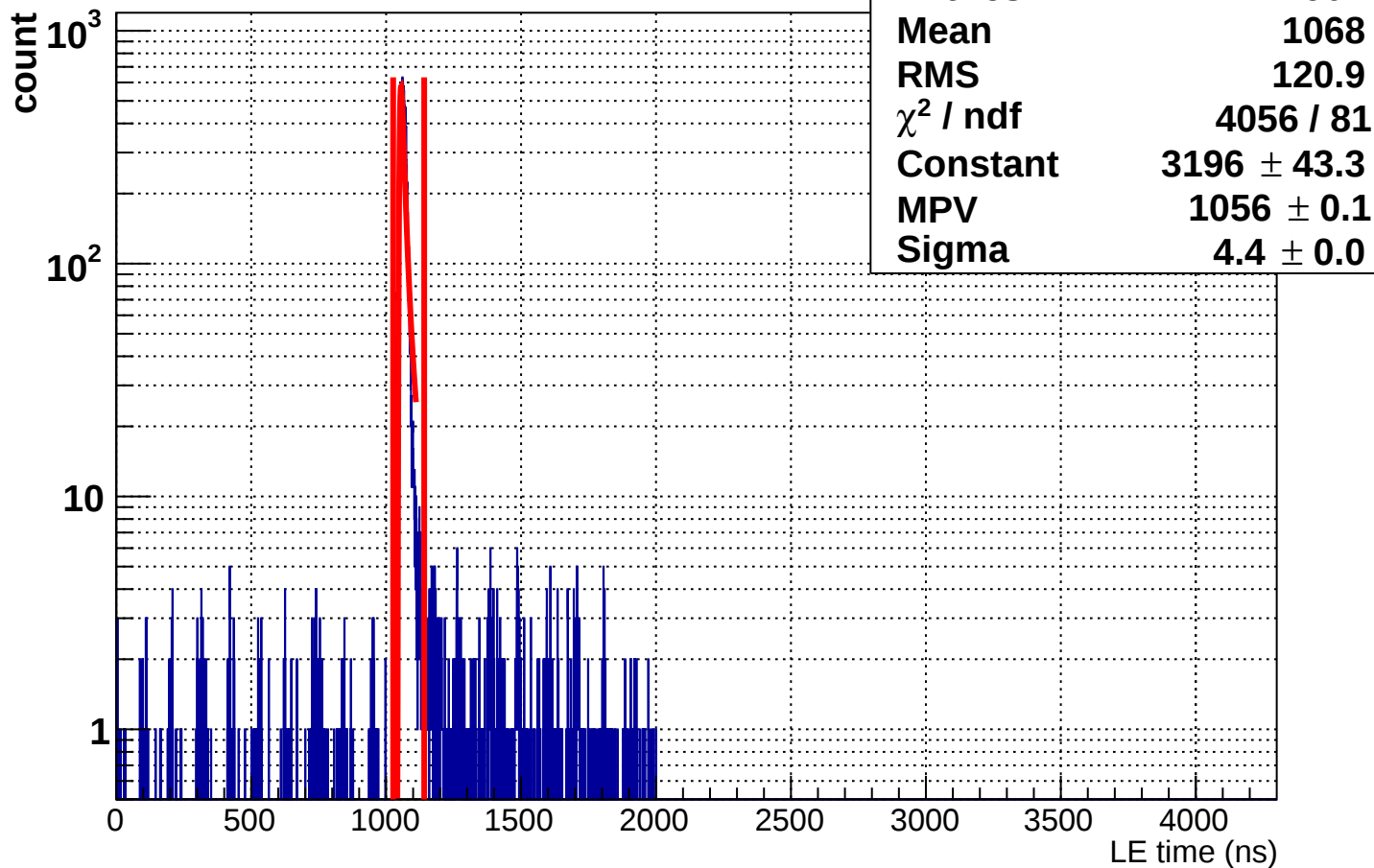
tray_le_110

Entries	18169
Mean	1071
RMS	128.3
χ^2 / ndf	4799 / 84
Constant	3156 ± 42.2
MPV	1056 ± 0.1
Sigma	4.211 ± 0.045

LE time (ns)

Run# 17099020

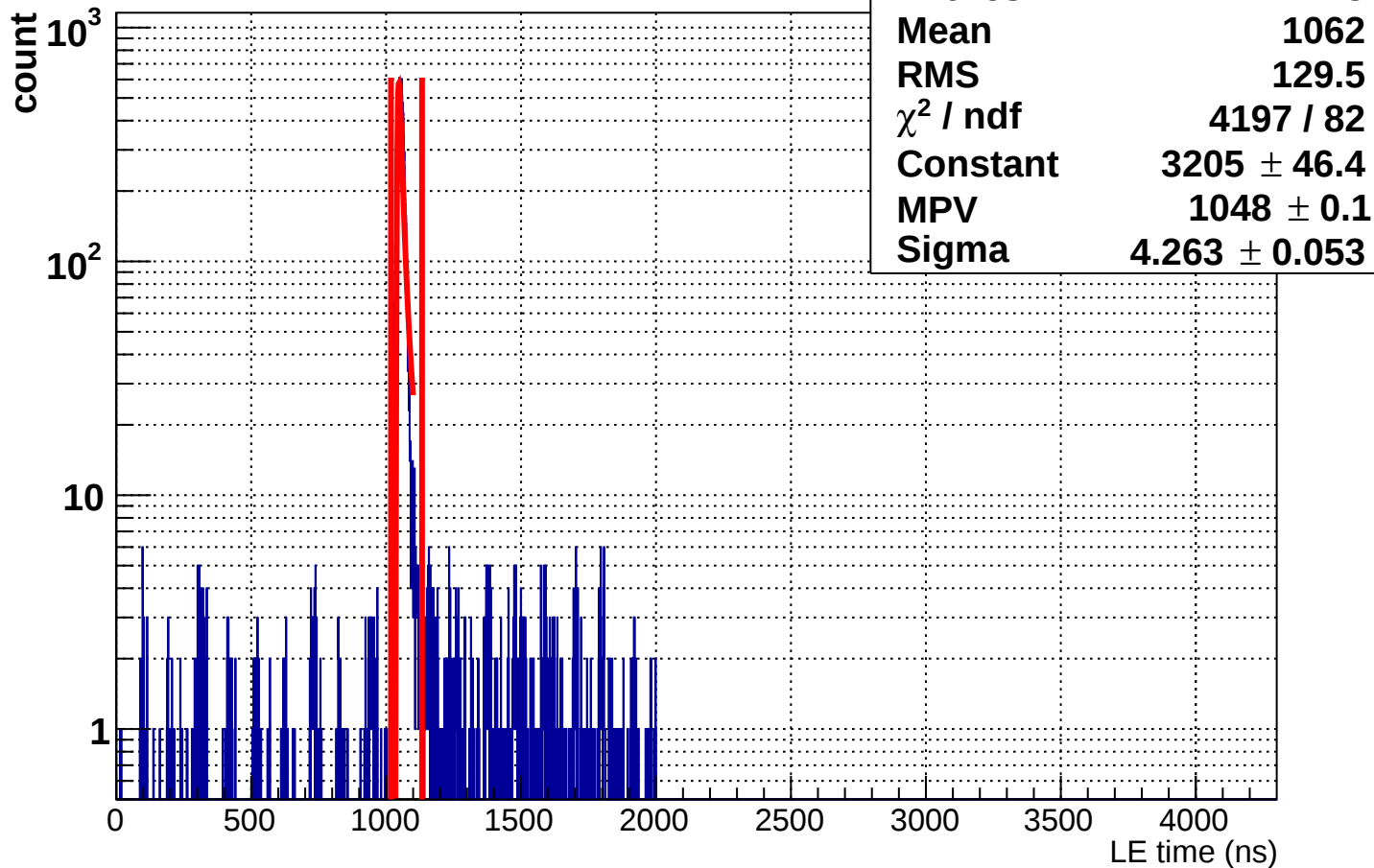
tray_le_111



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Run# 17099020

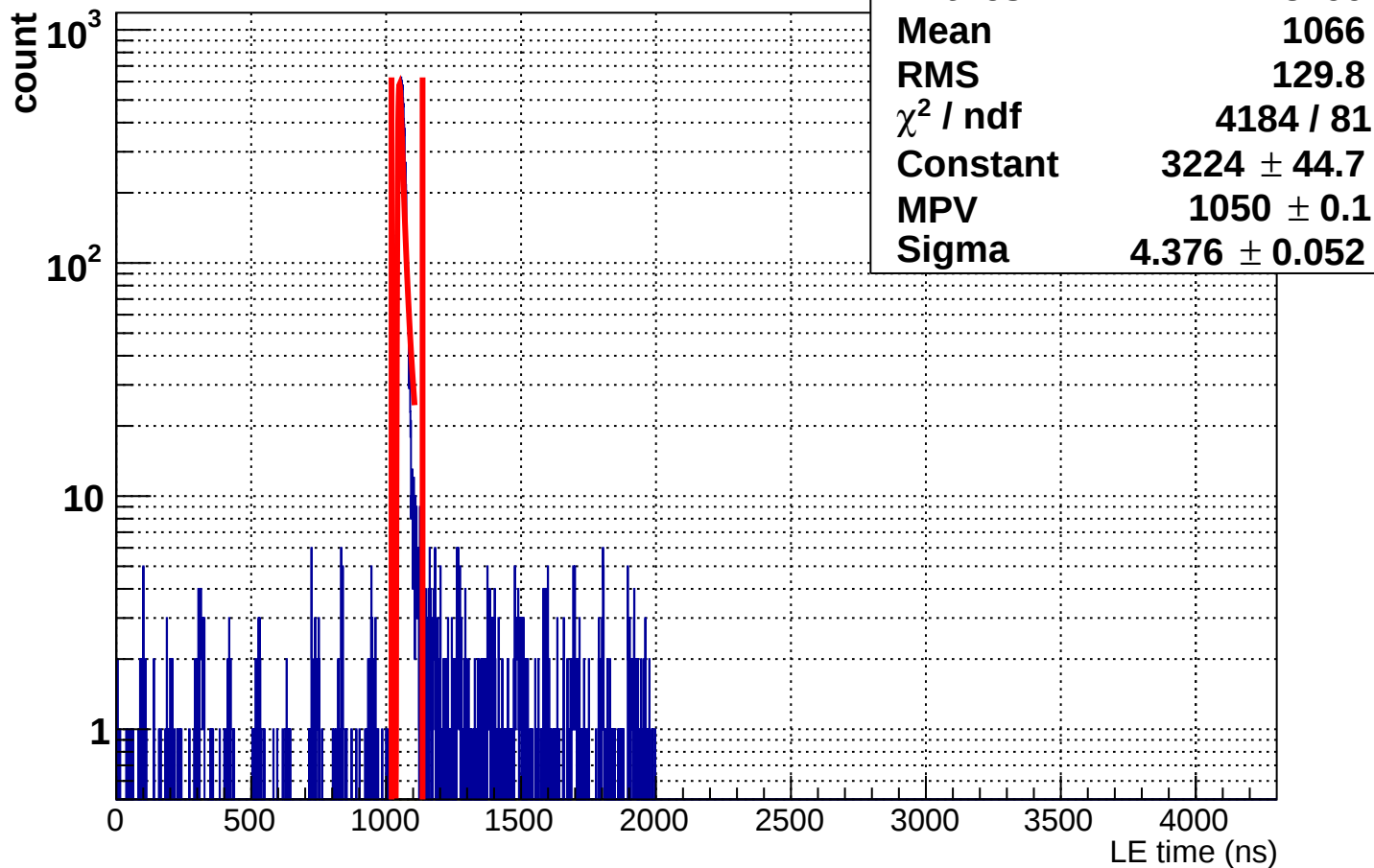
tray_le_112



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Run# 17099020

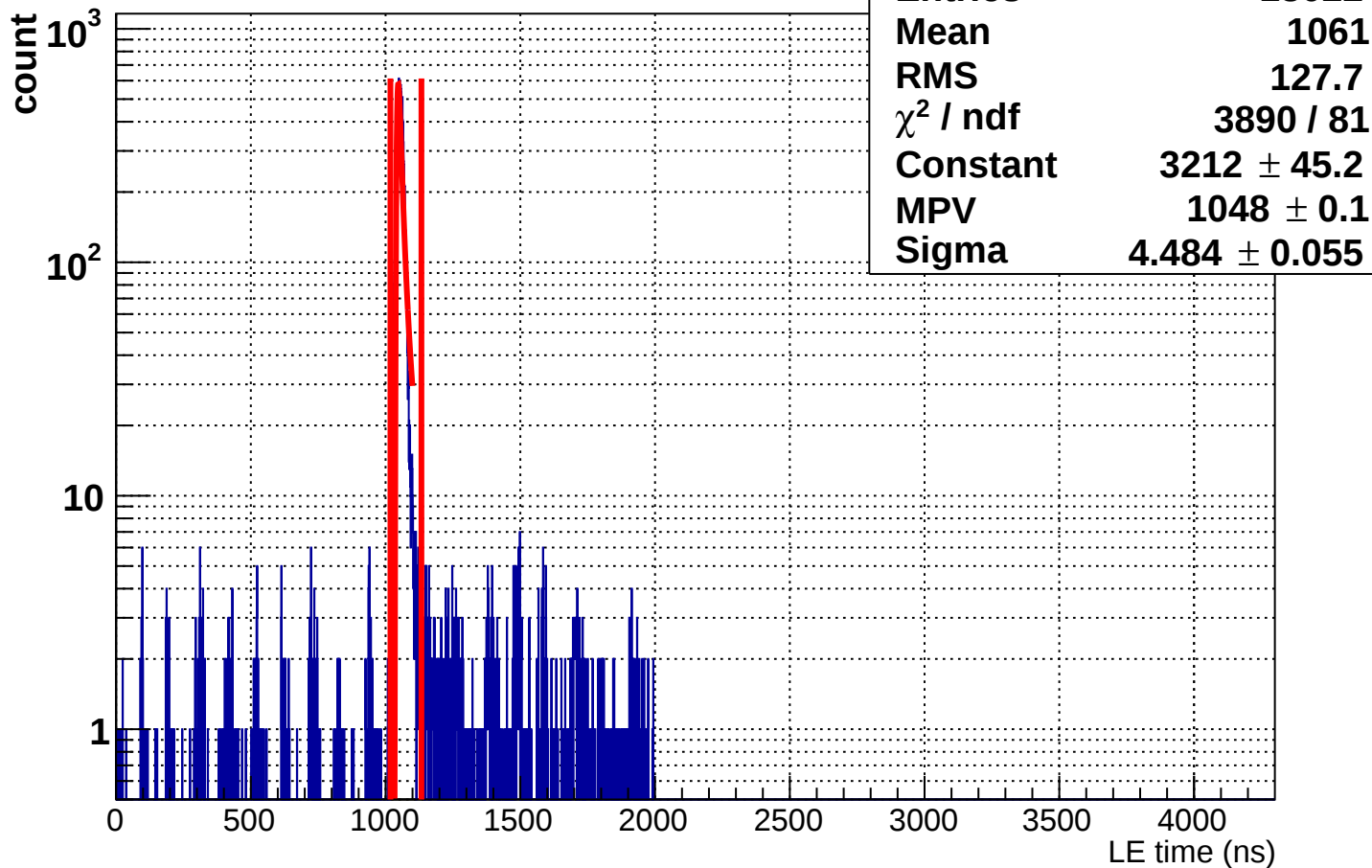
tray_le_113



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Run# 17099020

tray_le_114

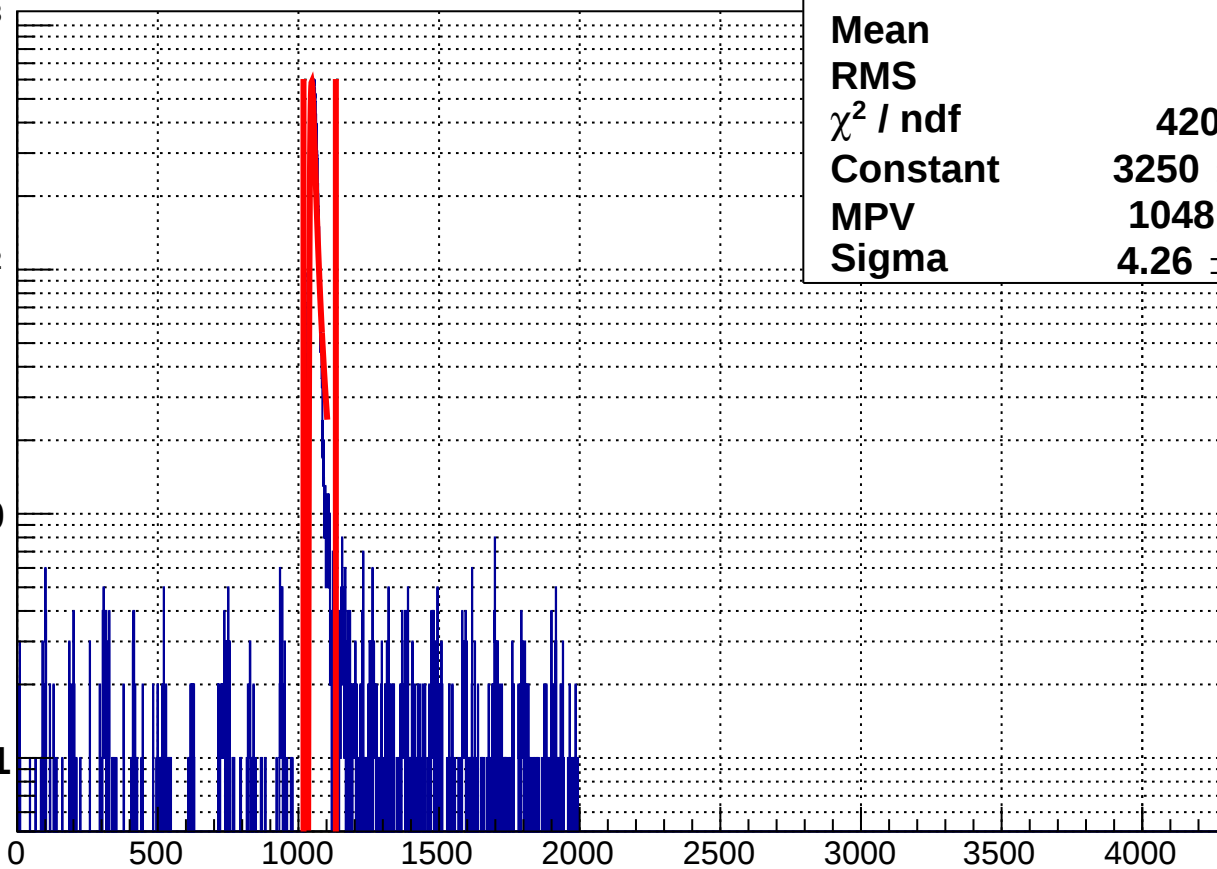


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Run# 17099020

count

10^3
 10^2
10
1



tray_le_115

Entries	17983
Mean	1061
RMS	128.1
χ^2 / ndf	4209 / 82
Constant	3250 ± 48.1
MPV	1048 ± 0.2
Sigma	4.26 ± 0.06

LE time (ns)

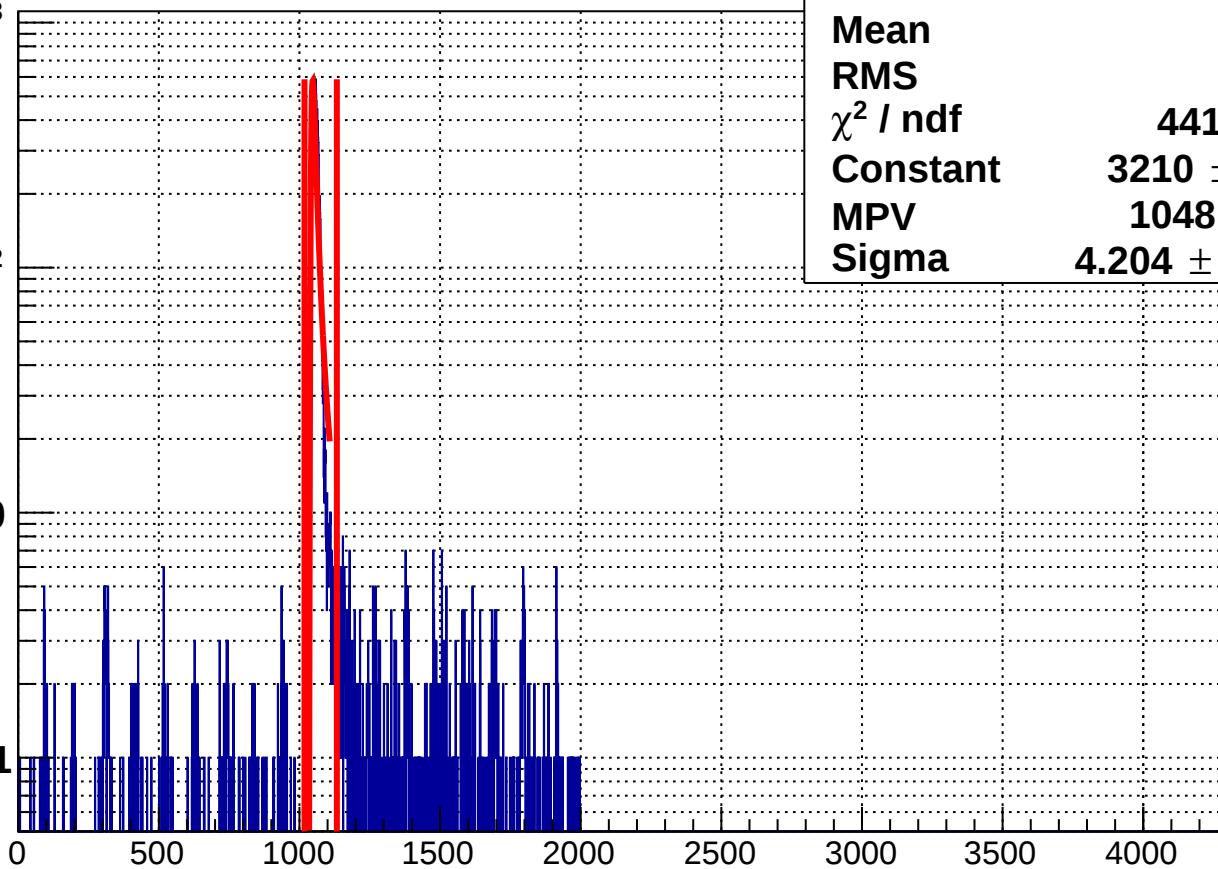
Run# 17099020

tray_le_116

count

10^3
 10^2
10
1

Entries	17930
Mean	1062
RMS	126.7
χ^2 / ndf	4410 / 85
Constant	3210 ± 46.7
MPV	1048 ± 0.2
Sigma	4.204 ± 0.052



LE time (ns)

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Run# 17099020

tray_le_117

count

10^3
 10^2
10
1

Entries	18282
Mean	1063
RMS	132.9
χ^2 / ndf	3964 / 78
Constant	3185 ± 45.5
MPV	1048 ± 0.1
Sigma	4.593 ± 0.058

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

Tue Apr 11 15:06:13 2017

Run# 17099020

tray_le_118

count

10^3
 10^2
10
1

Entries	18297
Mean	1055
RMS	125.7
χ^2 / ndf	4457 / 84
Constant	3243 ± 43.8
MPV	1040 ± 0.1
Sigma	4.291 ± 0.048

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

Tue Apr 11 15:06:13 2017

Run# 17099020

tray_le_119

count

10^3
 10^2
10
1

Entries	18217
Mean	1054
RMS	122.6
χ^2 / ndf	4559 / 86
Constant	3322 ± 45.3
MPV	1040 ± 0.1
Sigma	4.091 ± 0.046

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

Tue Apr 11 15:06:14 2017

Run# 17099020

tray_le_120

count

10^3
 10^2
10
1

Entries	18005
Mean	1055
RMS	128.3
χ^2 / ndf	4666 / 87
Constant	3200 ± 42.7
MPV	1040 ± 0.1
Sigma	4.131 ± 0.044

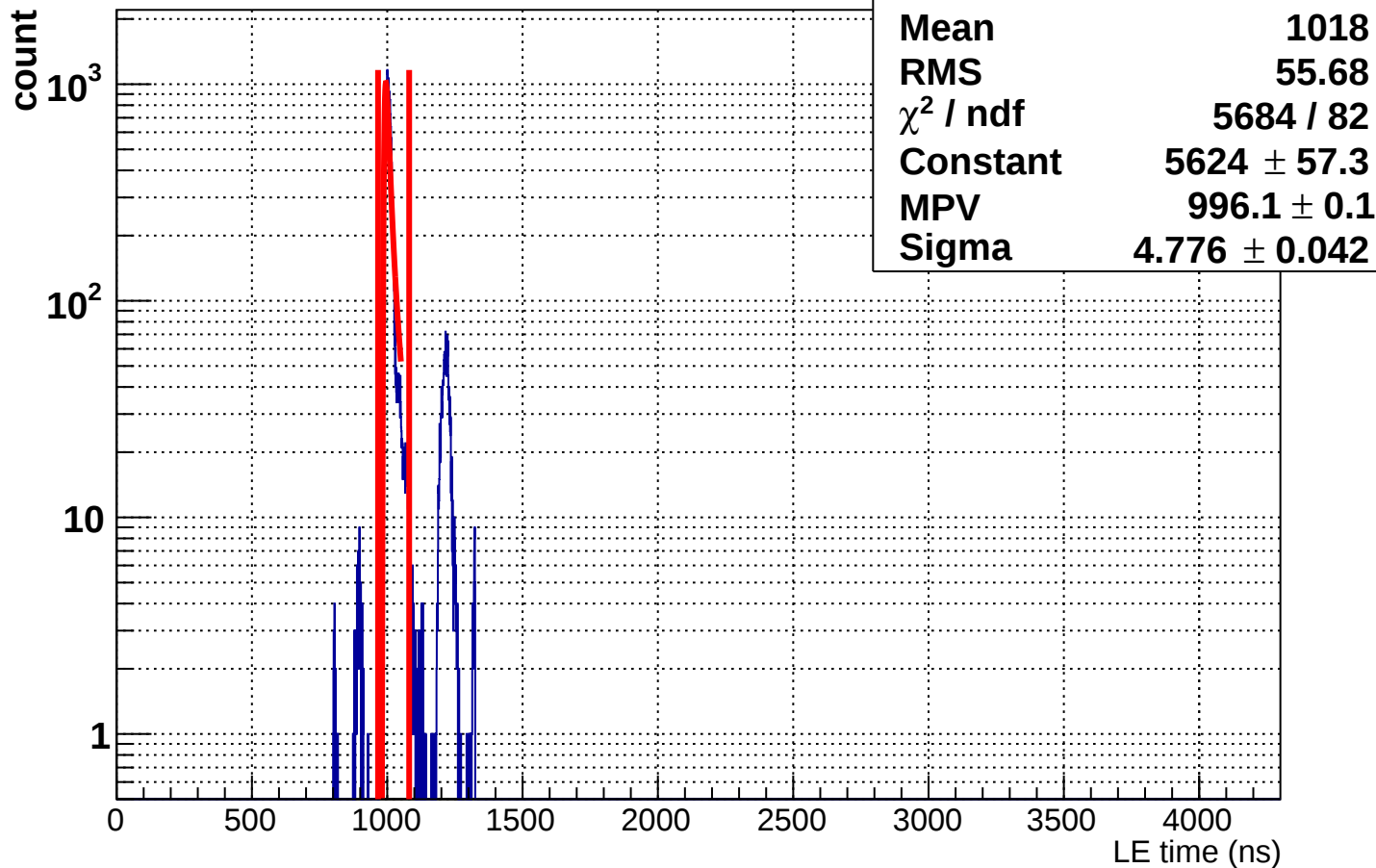
0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

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Run# 17099020

tray_le_121



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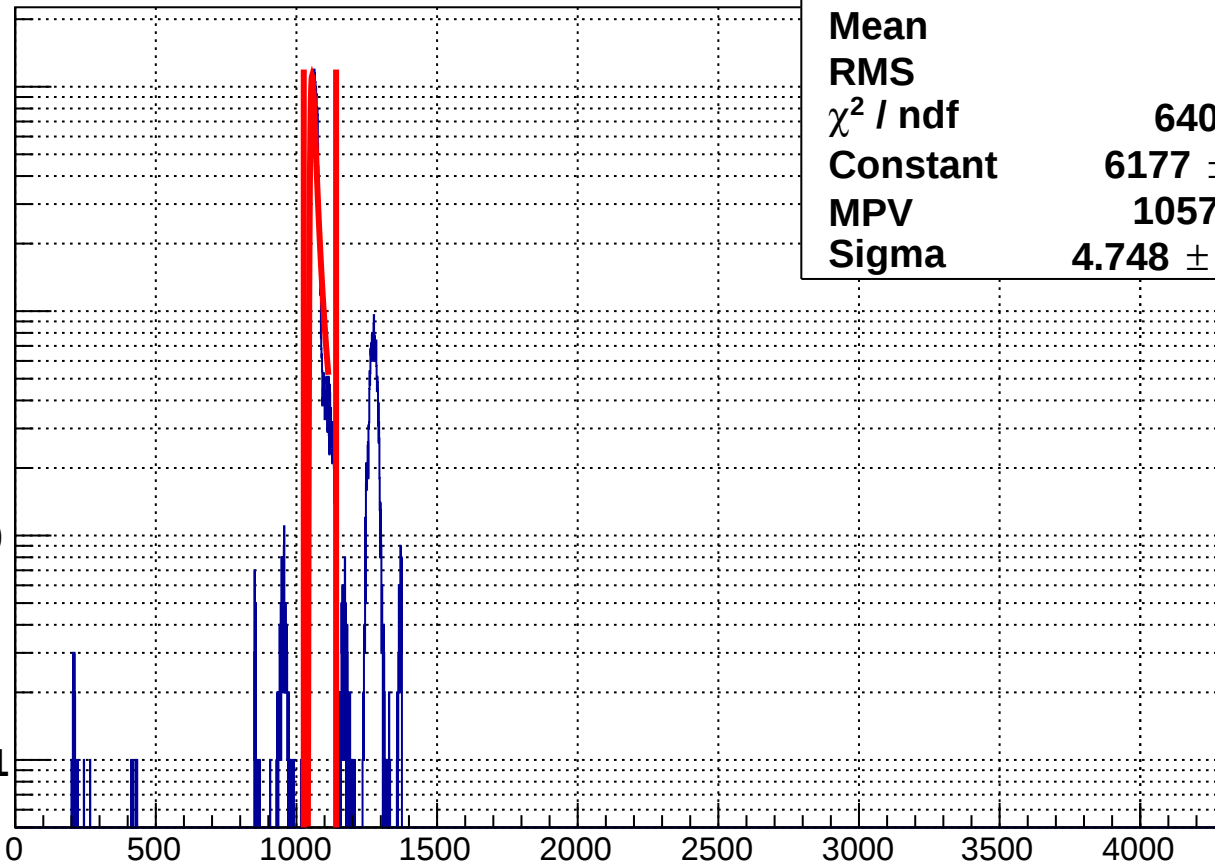
Run# 17099020

count

tray_le_122

Entries	36591
Mean	1080
RMS	62.06
χ^2 / ndf	6409 / 88
Constant	6177 ± 57.5
MPV	1057 ± 0.1
Sigma	4.748 ± 0.037

10^3
 10^2
10
1



LE time (ns)