

leTrg

LE Time (ns)

4000
3500
3000
2500
2000
1500
1000
500
0

0

20

40

60

80

100

Tray #

120

leTrg	
Entries	1172038
Mean x	64.27
Mean y	1046
RMS x	36.99
RMS y	103.5

1400
1200
1000
800
600
400
200
0

Mon Apr 16 11:23:35 2018

Run# 19103014**tray_le_1****count** 10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries**9329****Mean****1062****RMS****95.03** χ^2 / ndf **1950 / 74****Constant** **1889 ± 34.2** **MPV** **1044 ± 0.2** **Sigma** **4.057 ± 0.060**

Mon Apr 16 11:23:35 2018

Run# 19103014

tray_le_2

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9292

Mean

1062

RMS

102.7

χ^2 / ndf

2765 / 75

Constant

1851 ± 35.4

MPV

1044 ± 0.2

Sigma

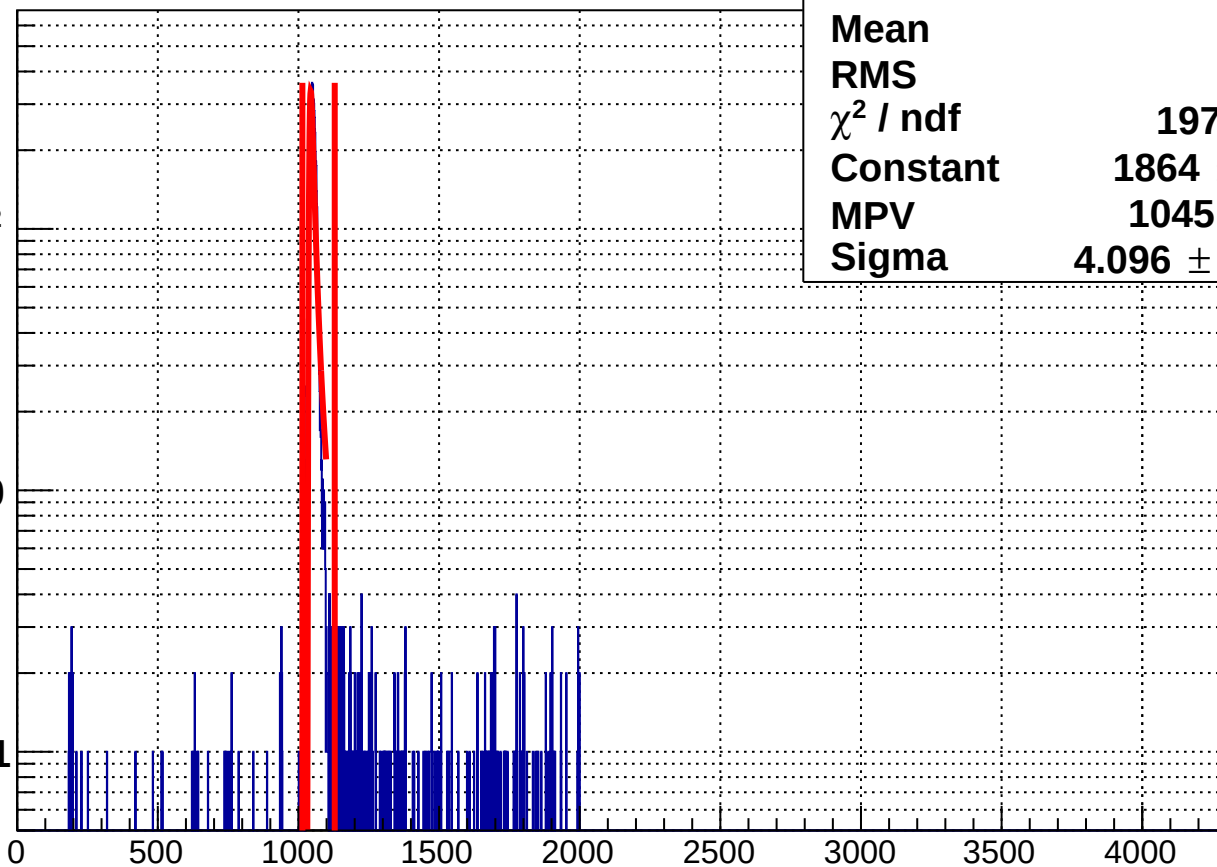
3.584 ± 0.055

Mon Apr 16 11:23:36 2018

Run# 19103014**tray_le_3****count** 10^2

10

1



Entries	9319
Mean	1061
RMS	96.26
χ^2 / ndf	1975 / 75
Constant	1864 ± 34.1
MPV	1045 ± 0.2
Sigma	4.096 ± 0.062

LE time (ns)

Run# 19103014

tray_le_4

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9162

Mean

1061

RMS

101.3

χ^2 / ndf

2215 / 75

Constant

1744 ± 33.2

MPV

1044 ± 0.2

Sigma

4.109 ± 0.065

Mon Apr 16 11:23:36 2018

Run# 19103014

tray_le_5

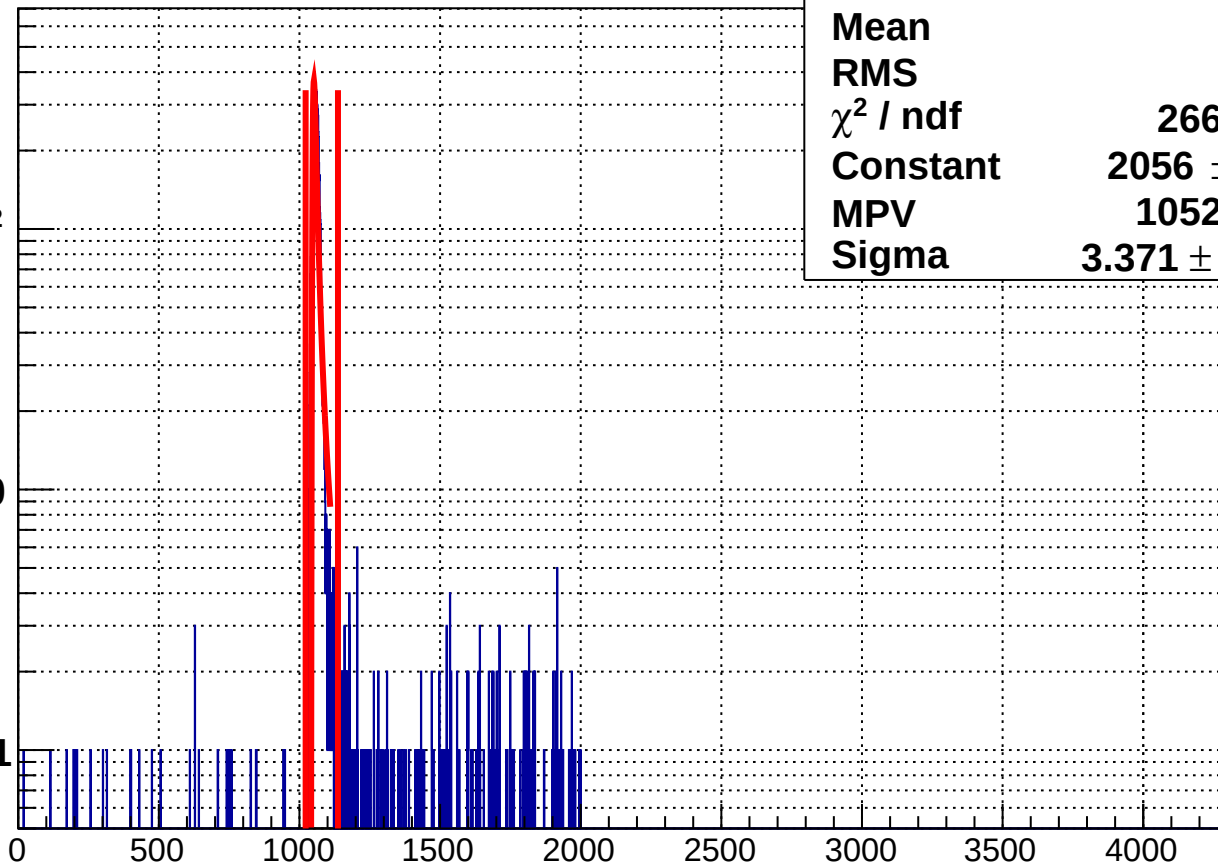
count

10^2

10

1

Entries	9476
Mean	1070
RMS	96.4
χ^2 / ndf	2663 / 76
Constant	2056 ± 37.9
MPV	1052 ± 0.1
Sigma	3.371 ± 0.049



LE time (ns)

Run# 19103014

tray_le_6

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9524

Mean

1068

RMS

86.6

χ^2 / ndf

2198 / 76

Constant

1924 ± 34.4

MPV

1052 ± 0.2

Sigma

3.946 ± 0.058

Run# 19103014

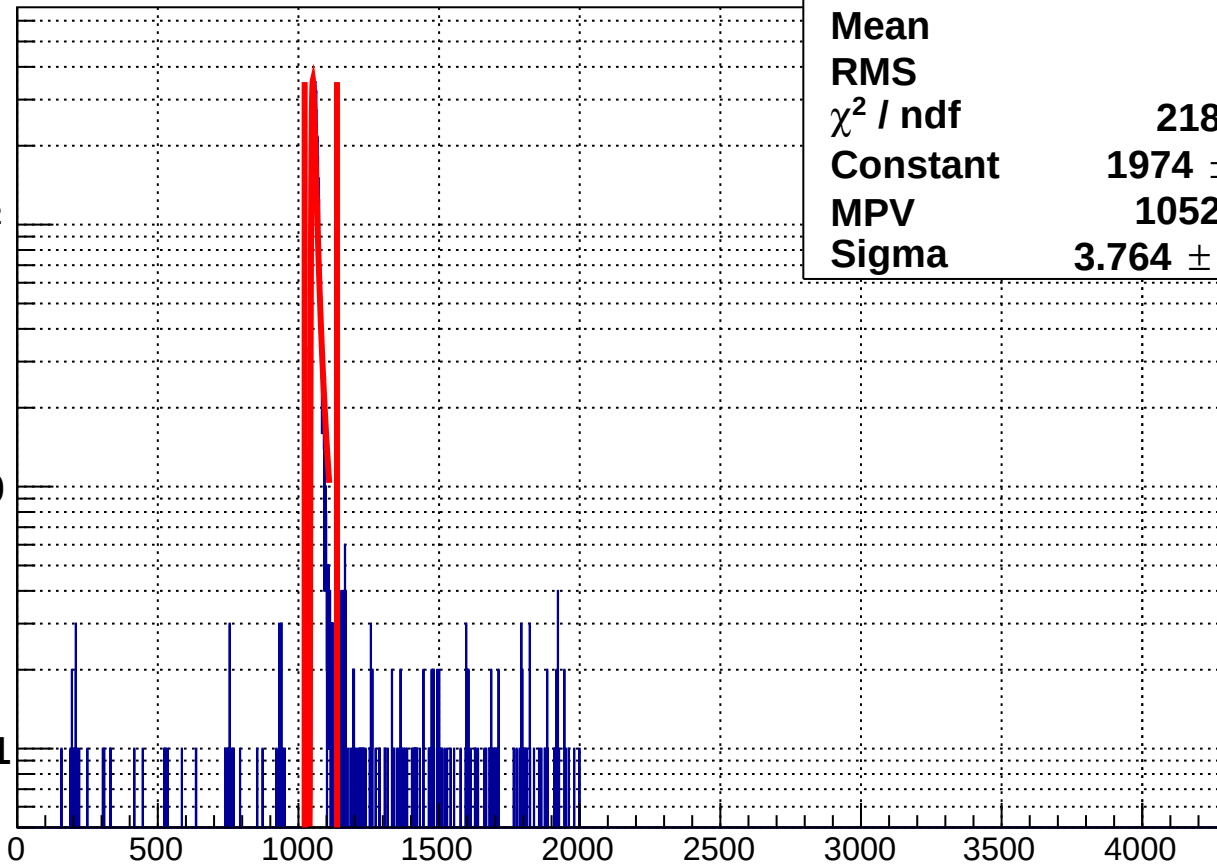
tray_le_7

count

10^2

10

1



Entries

9383

Mean

1066

RMS

87.5

χ^2 / ndf

2180 / 75

Constant

1974 ± 35.9

MPV

1052 ± 0.1

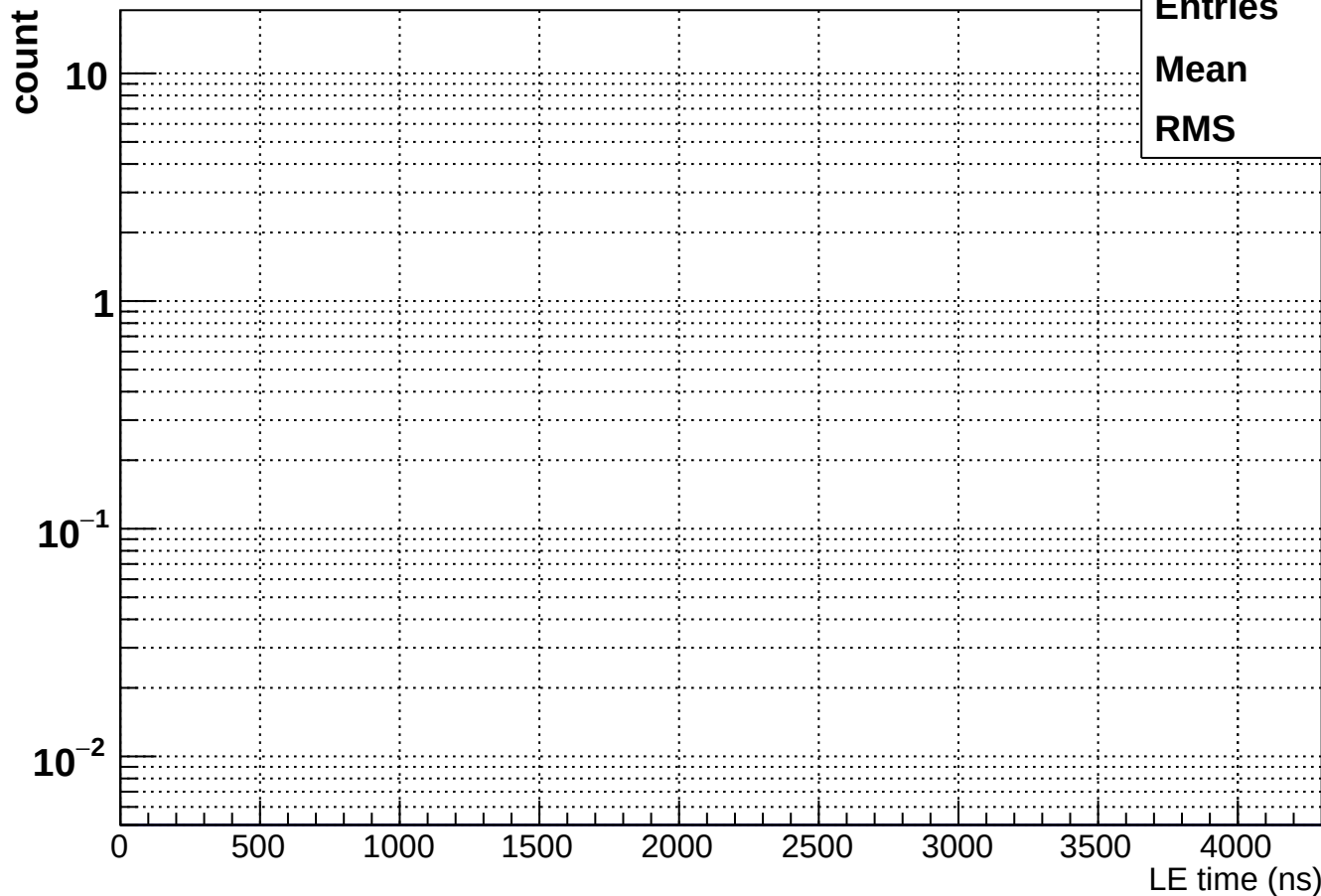
Sigma

3.764 ± 0.056

Run# 19103014

tray_le_8

Entries	0
Mean	0
RMS	0



Mon Apr 16 11:23:36 2018

Run# 19103014

tray_le_9

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9210

Mean

1069

RMS

99.02

χ^2 / ndf

2079 / 77

Constant

1895 ± 35.1

MPV

1051 ± 0.2

Sigma

3.848 ± 0.058

Run# 19103014

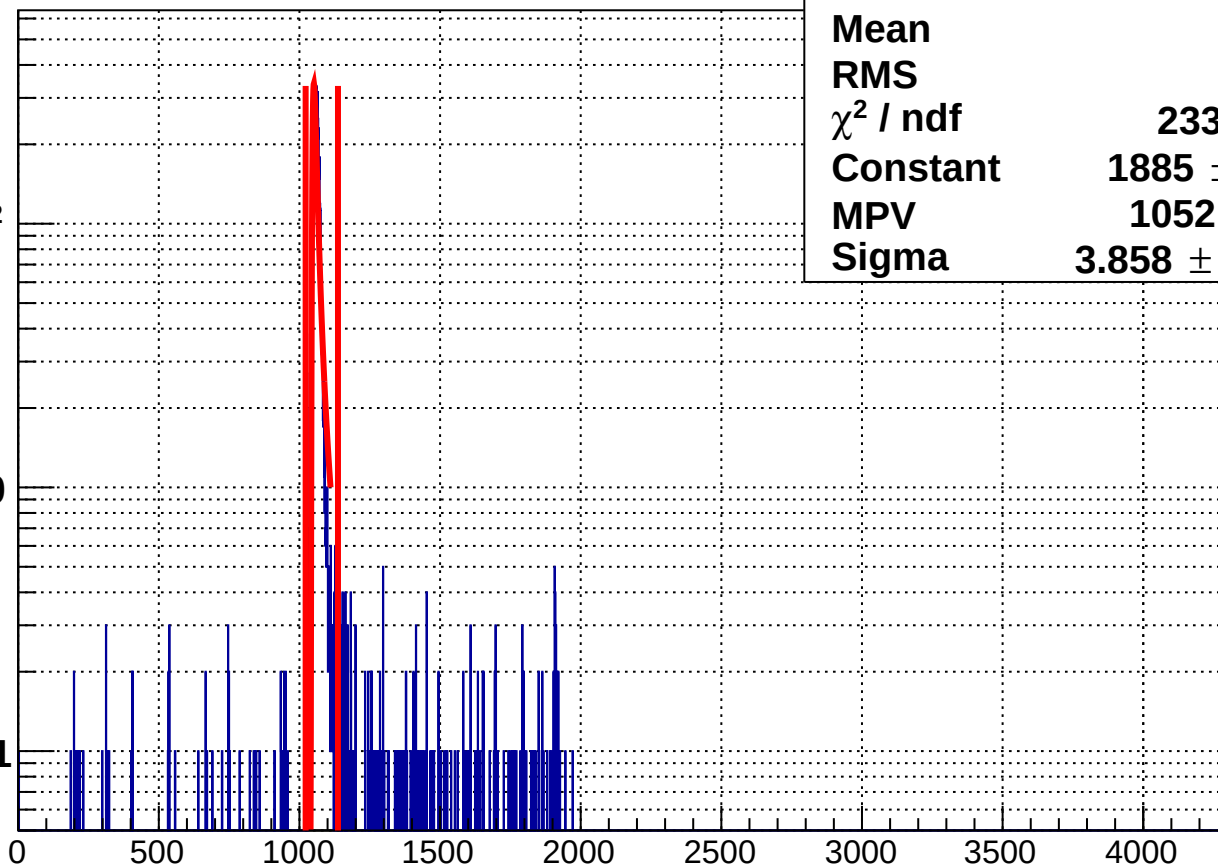
tray_le_10

count

10^2

10

1



LE time (ns)

Mon Apr 16 11:23:36 2018

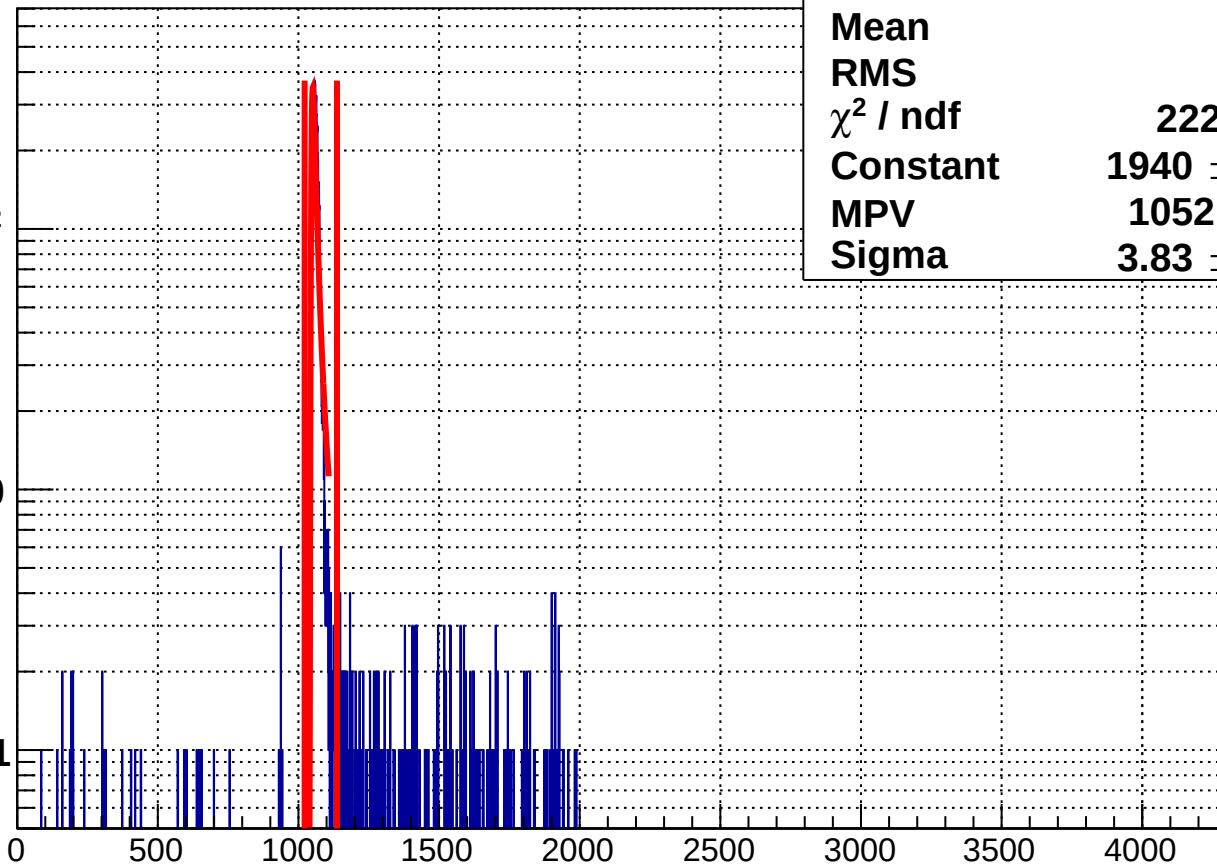
Run# 19103014

count

10^2

10

1



tray_le_11

Entries	9430
Mean	1068
RMS	96.16
χ^2 / ndf	2229 / 74
Constant	1940 ± 35.6
MPV	1052 ± 0.2
Sigma	3.83 ± 0.06

Run# 19103014

tray_le_12

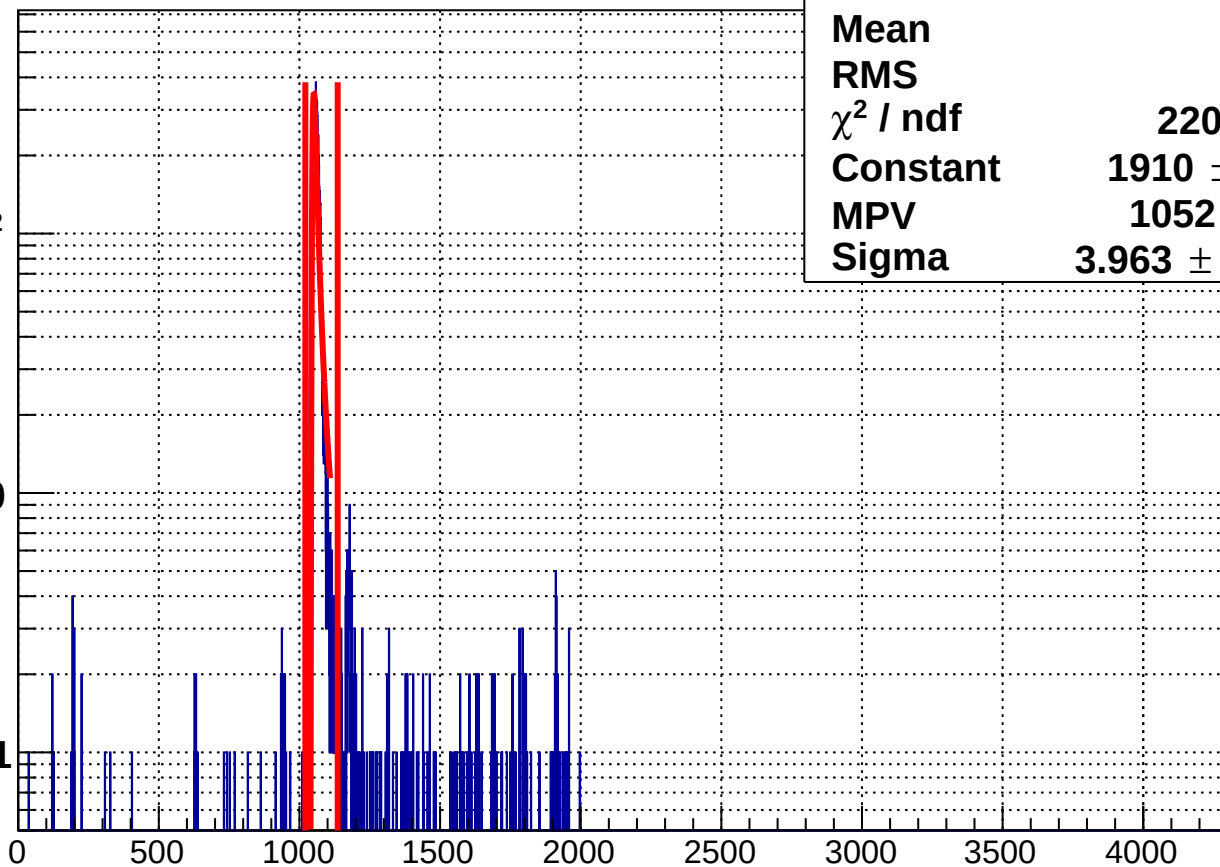
count

10^2

10

1

Entries	9596
Mean	1068
RMS	94.26
χ^2 / ndf	2205 / 76
Constant	1910 ± 34.3
MPV	1052 ± 0.2
Sigma	3.963 ± 0.058



LE time (ns)

Mon Apr 16 11:23:36 2018

Run# 19103014

tray_le_13

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9438

Mean

1069

RMS

99.34

χ^2 / ndf

1842 / 71

Constant

1818 ± 32.4

MPV

1050 ± 0.2

Sigma

4.395 ± 0.066

Run# 19103014

tray_le_14

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9358

Mean

1068

RMS

97.06

χ^2 / ndf

2078 / 75

Constant

1927 ± 36.3

MPV

1051 ± 0.2

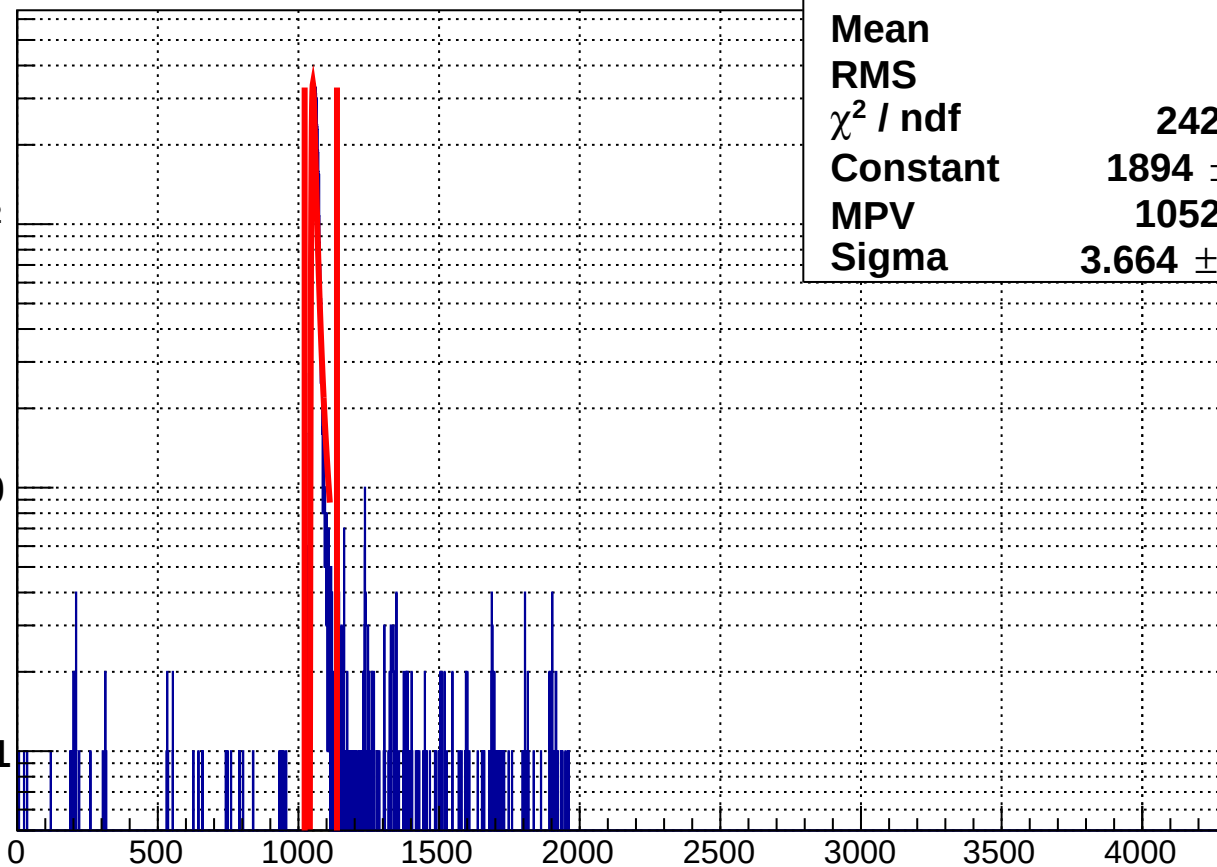
Sigma

3.912 ± 0.062

Run# 19103014**tray_le_15****count** 10^2

10

1

**Entries****9253****Mean****1068****RMS****96.51** χ^2 / ndf **2420 / 78****Constant** **1894 ± 34.0** **MPV** **1052 ± 0.1** **Sigma** **3.664 ± 0.051**

LE time (ns)

Run# 19103014

tray_le_16

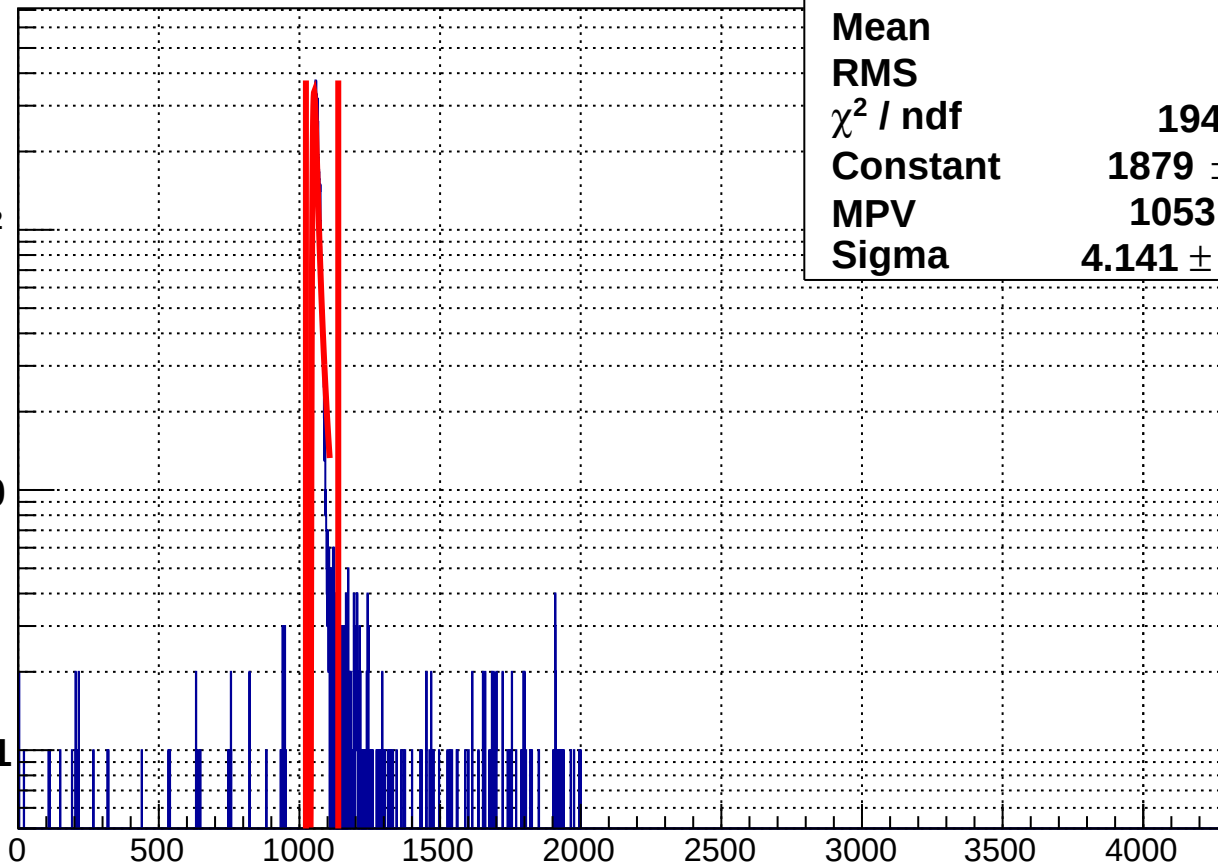
count

10^2

10

1

Entries	9413
Mean	1067
RMS	83.83
χ^2 / ndf	1949 / 73
Constant	1879 ± 34.0
MPV	1053 ± 0.2
Sigma	4.141 ± 0.062



LE time (ns)

Run# 19103014

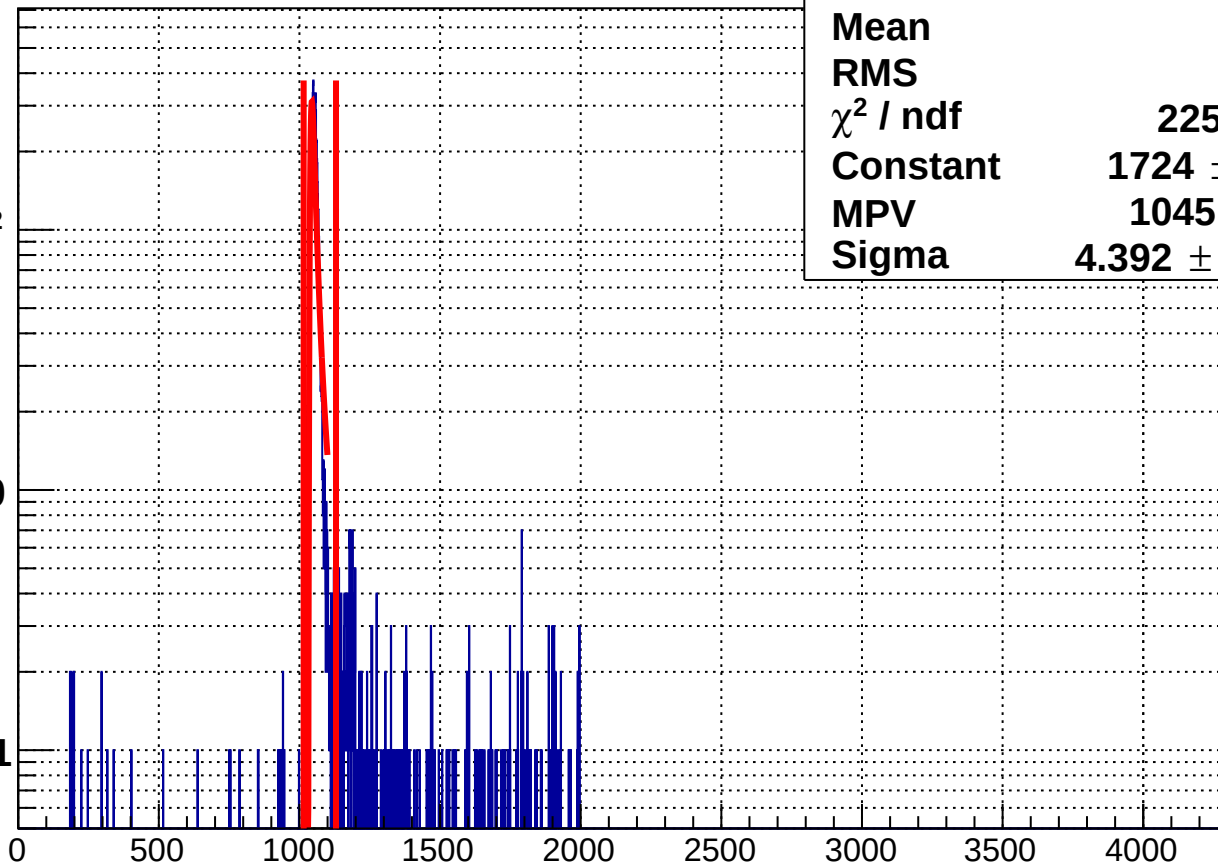
tray_le_17

count

10^2

10

1



Entries

9597

Mean

1064

RMS

93.87

χ^2 / ndf

2257 / 75

Constant

1724 ± 33.4

MPV

1045 ± 0.2

Sigma

4.392 ± 0.074

LE time (ns)

Mon Apr 16 11:23:36 2018

Run# 19103014

tray_le_18

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9608

Mean

1060

RMS

92.25

χ^2 / nfd

2231 / 73

Constant

1890 ± 34.9

MPV

1046 ± 0.2

Sigma

4.06 ± 0.06

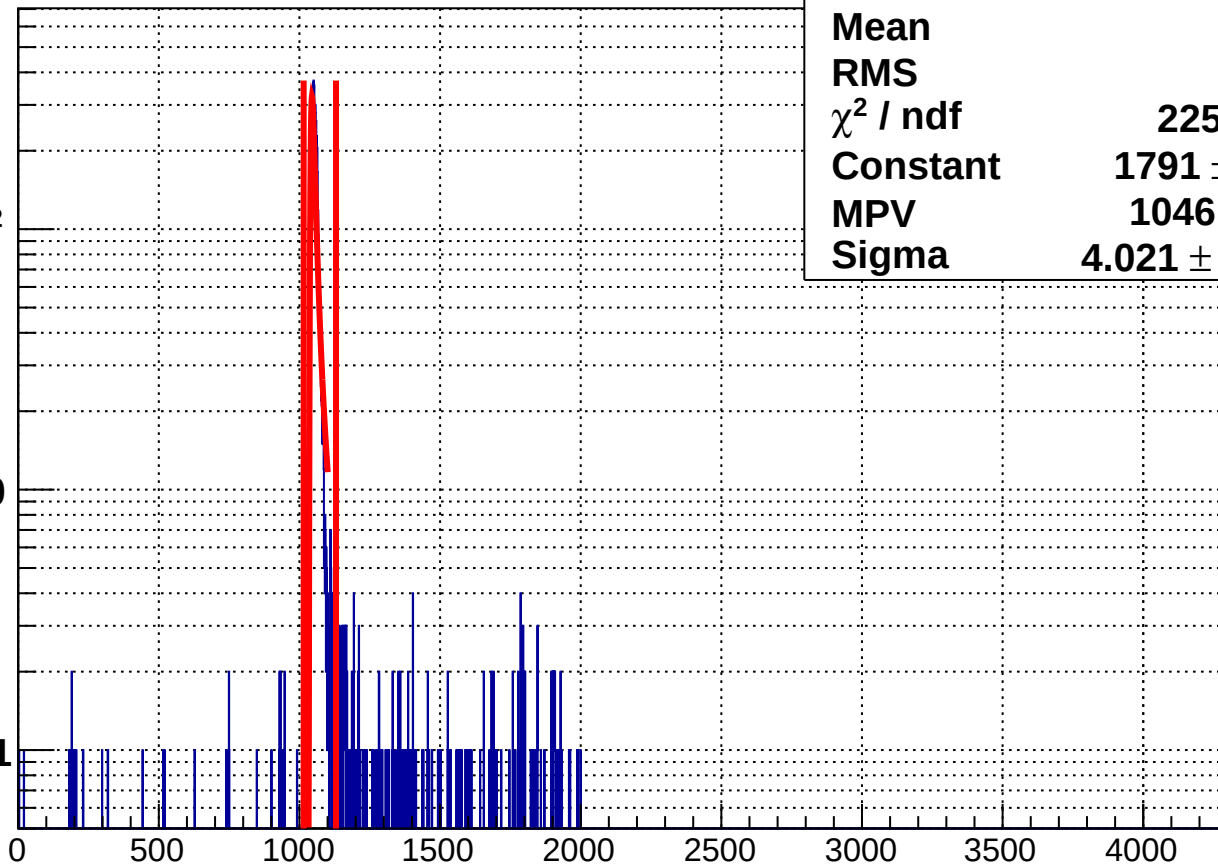
Run# 19103014

count

10^2

10

1



Mon Apr 16 11:23:36 2018

Run# 19103014

tray_le_20

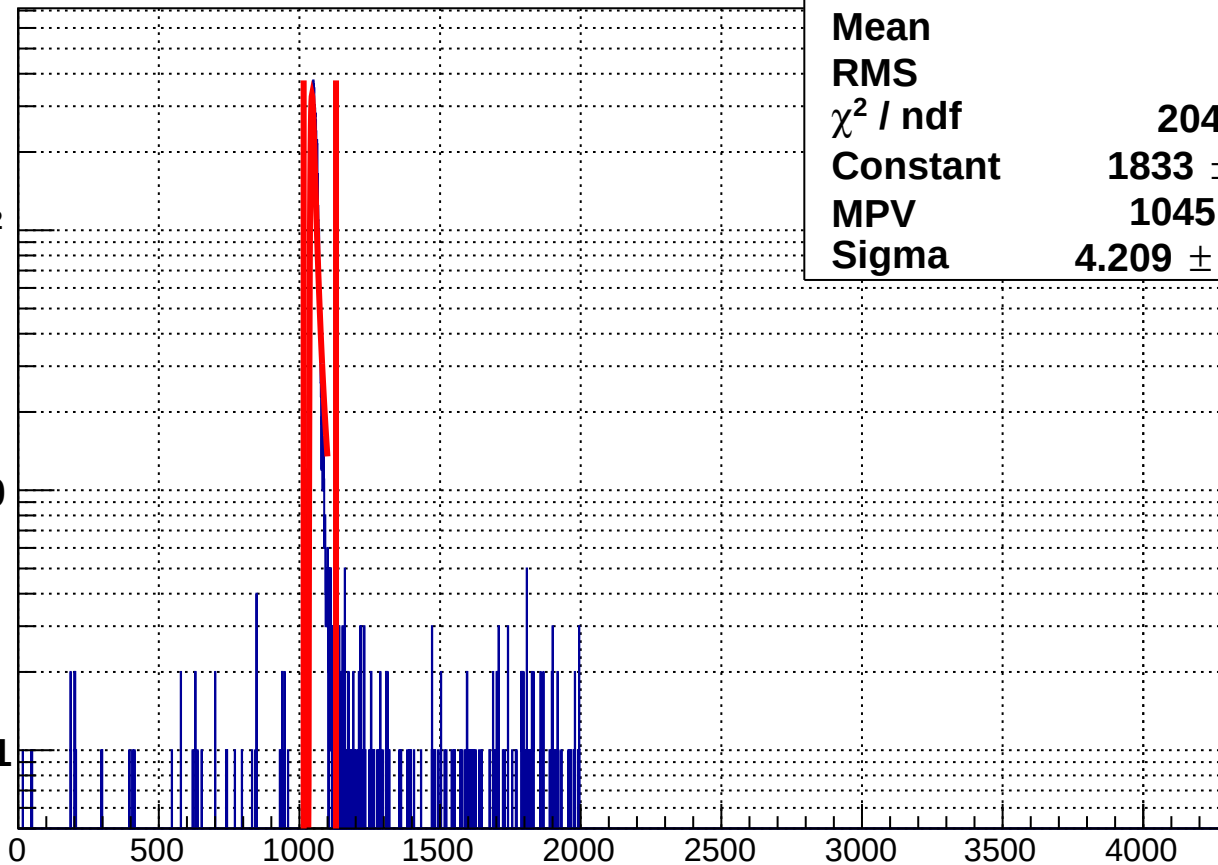
count

10^2

10

1

Entries	9429
Mean	1062
RMS	97.8
χ^2 / ndf	2048 / 74
Constant	1833 ± 33.4
MPV	1045 ± 0.2
Sigma	4.209 ± 0.064



LE time (ns)

Mon Apr 16 11:23:36 2018

Run# 19103014

tray_le_21

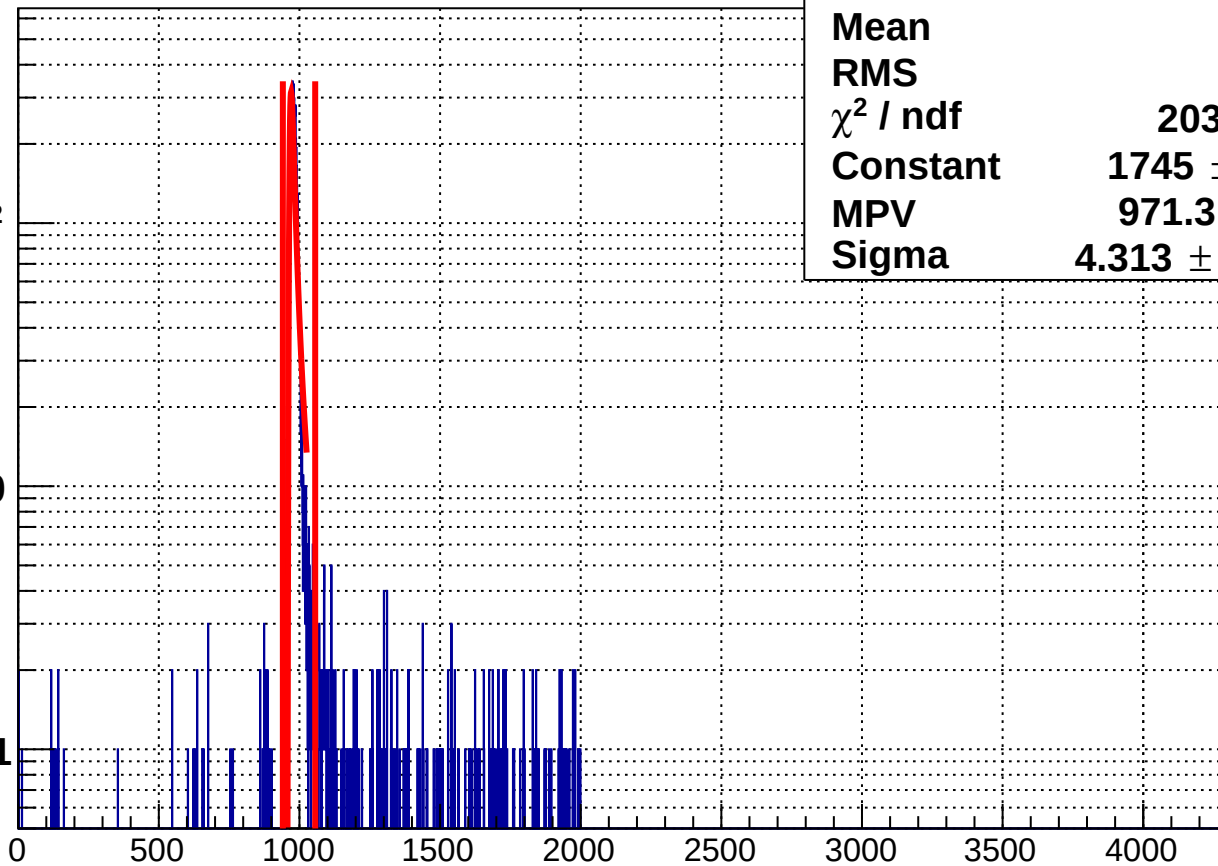
count

10^2

10

1

Entries	9282
Mean	990.6
RMS	101.5
χ^2 / ndf	2039 / 73
Constant	1745 ± 32.7
MPV	971.3 ± 0.2
Sigma	4.313 ± 0.068



LE time (ns)

Run# 19103014

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9511

Mean

991.8

RMS

106.8

χ^2 / ndf

2642 / 79

Constant

1796 ± 34.2

MPV

971.2 ± 0.2

Sigma

3.91 ± 0.06

tray_le_22

Mon Apr 16 11:23:36 2018

Run# 19103014

tray_le_23

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

6757

Mean

991.9

RMS

106.5

χ^2 / ndf

1713 / 68

Constant

1328 ± 30.6

MPV

972 ± 0.3

Sigma

3.914 ± 0.082

Run# 19103014

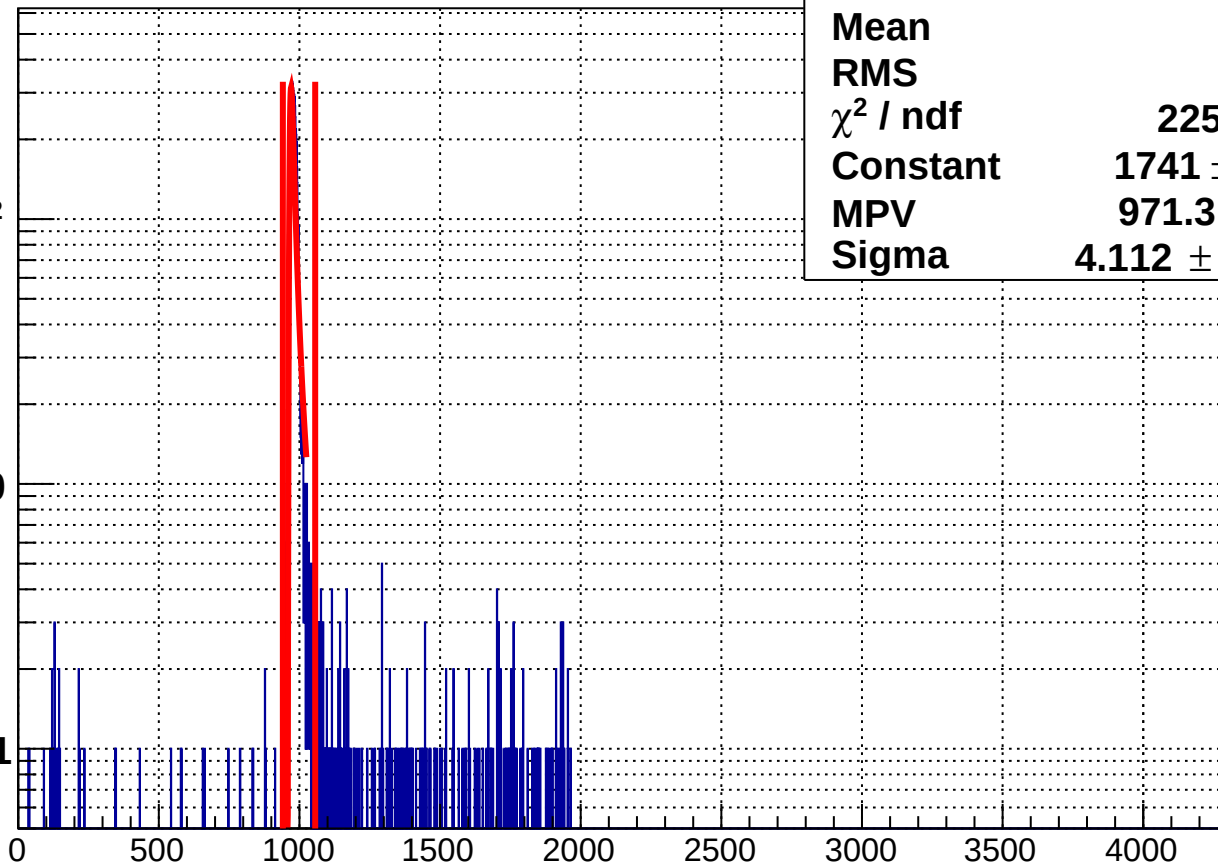
tray_le_24

count

10^2

10

1



Entries	9178
Mean	989.7
RMS	107.3
χ^2 / ndf	2259 / 72
Constant	1741 ± 32.7
MPV	971.3 ± 0.2
Sigma	4.112 ± 0.064

LE time (ns)

Run# 19103014

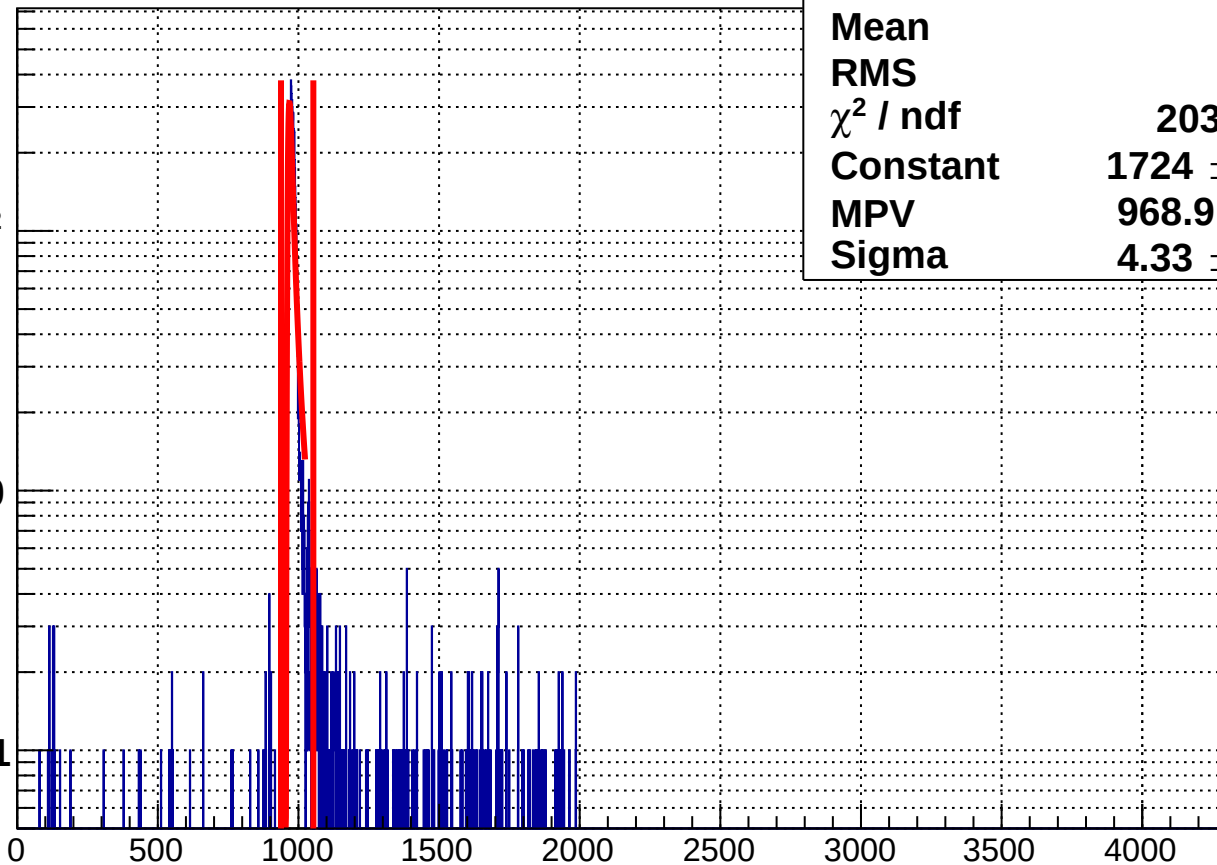
tray_le_25

count

10^2

10

1



Entries

9272

Mean

988.3

RMS

102.6

χ^2 / ndf

2039 / 73

Constant

1724 ± 31.4

MPV

968.9 ± 0.2

Sigma

4.33 ± 0.07

LE time (ns)

Run# 19103014

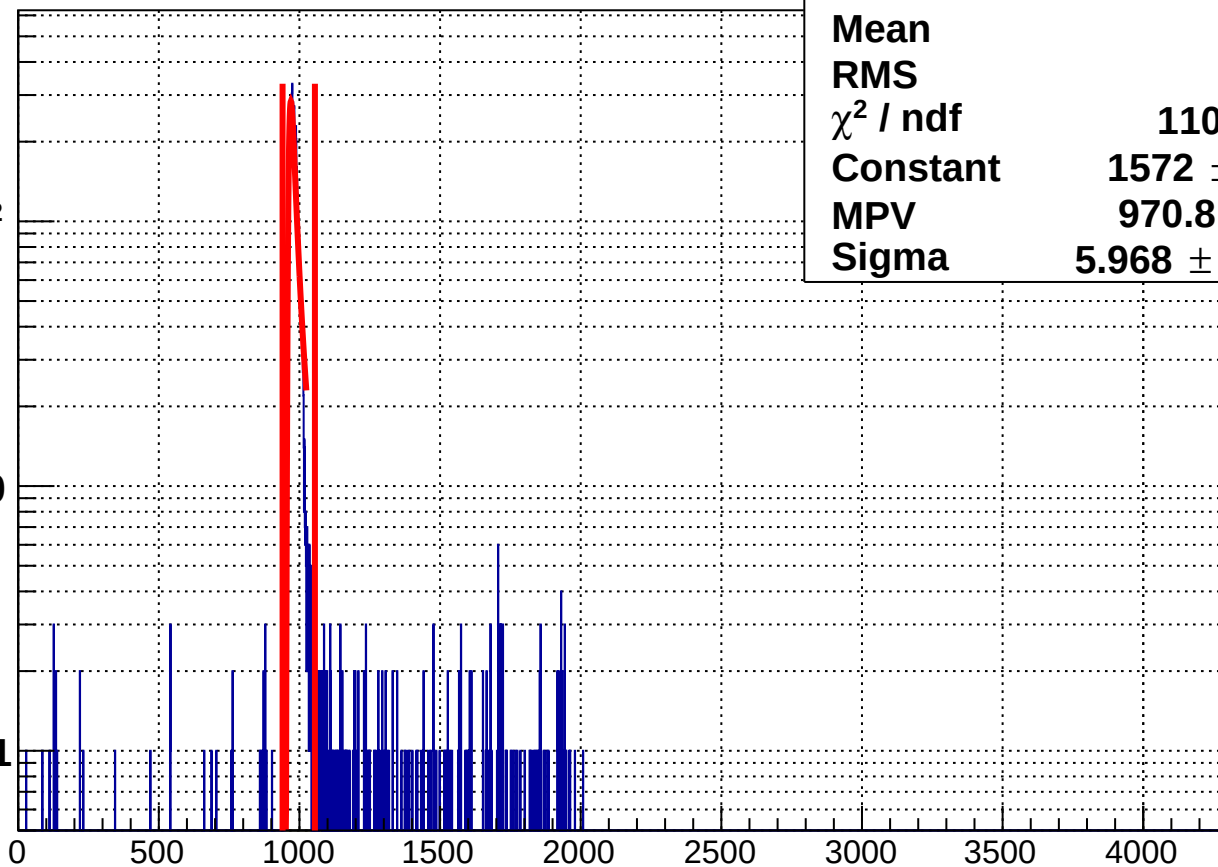
tray_le_26

count

10^2

10

1



Entries	9661
Mean	991.7
RMS	106
χ^2 / ndf	1106 / 75
Constant	1572 ± 25.9
MPV	970.8 ± 0.2
Sigma	5.968 ± 0.085

LE time (ns)

Run# 19103014**tray_le_27****count** 10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries**9403****Mean****997.2****RMS****117.4** χ^2 / ndf **2246 / 76****Constant** **1770 ± 32.4** **MPV** **976.7 ± 0.2** **Sigma** **4.134 ± 0.062**

Run# 19103014

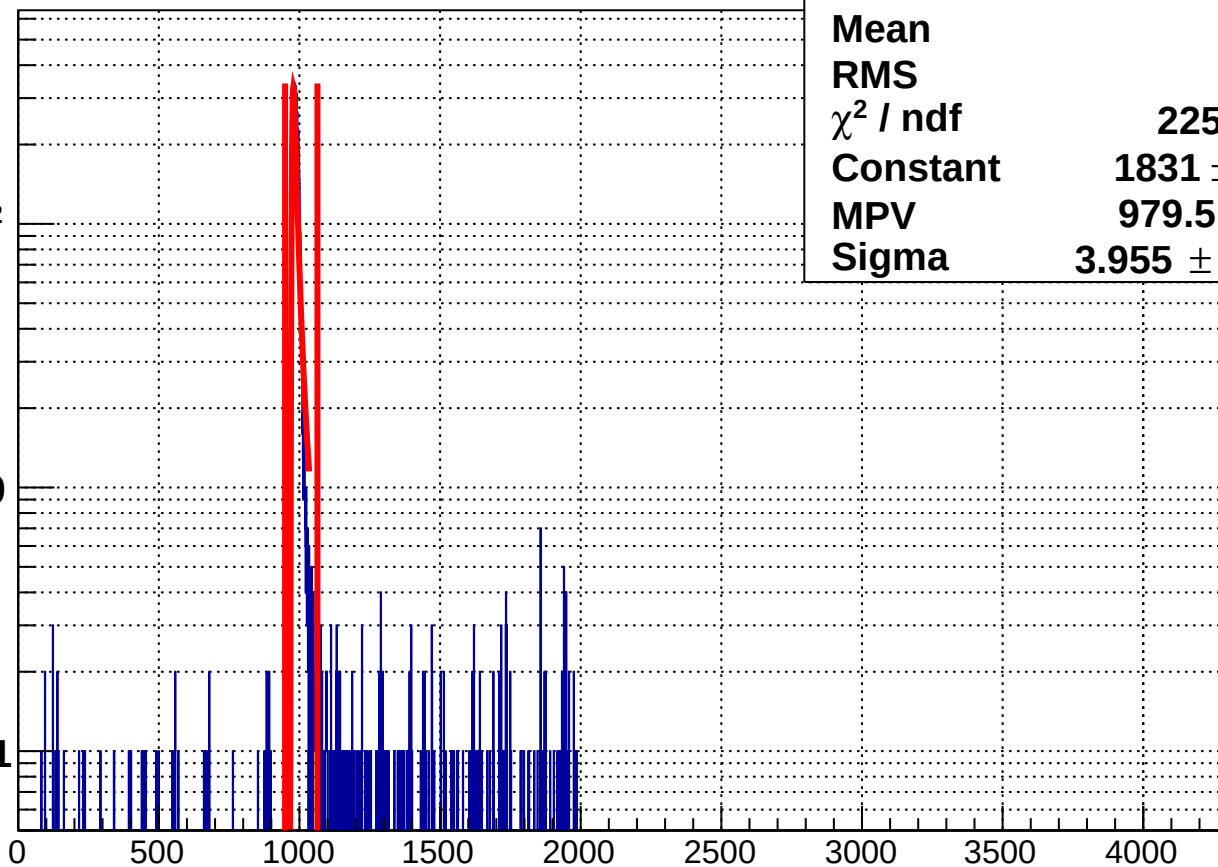
tray_le_28

count

10^2

10

1



Entries	9258
Mean	998.5
RMS	109.1
χ^2 / ndf	2255 / 73
Constant	1831 ± 34.2
MPV	979.5 ± 0.2
Sigma	3.955 ± 0.063

LE time (ns)

Run# 19103014

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9467

Mean

996.6

RMS

104.8

χ^2 / ndf

2305 / 79

Constant

1803 ± 32.9

MPV

975.5 ± 0.2

Sigma

4.073 ± 0.061

tray_le_29

Mon Apr 16 11:23:37 2018

Run# 19103014

tray_le_30

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9496

Mean

999.4

RMS

115.8

χ^2 / ndf

2147 / 77

Constant

1833 ± 33.8

MPV

976.3 ± 0.2

Sigma

4.139 ± 0.064

Run# 19103014

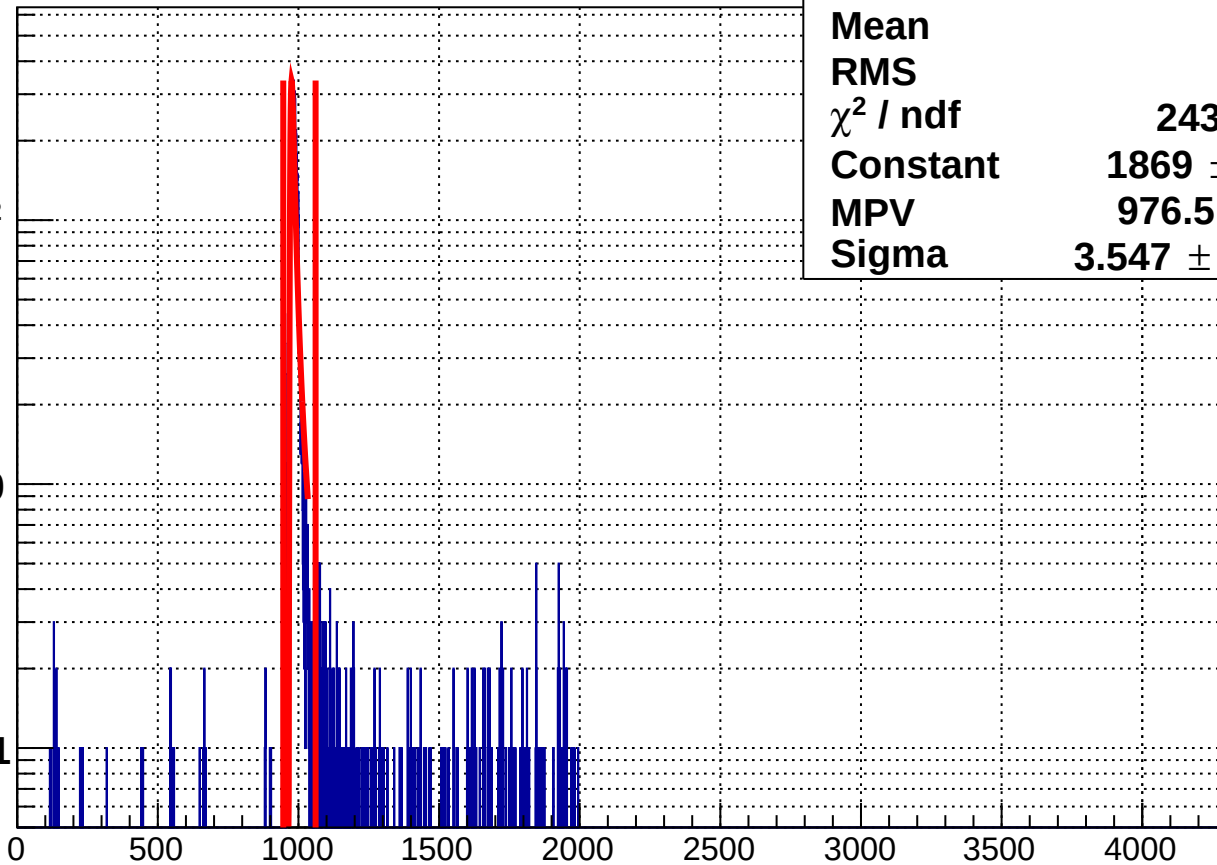
tray_le_31

count

10^2

10

1



Entries

8977

Mean

995.1

RMS

111.1

χ^2 / ndf

2432 / 76

Constant

1869 ± 36.3

MPV

976.5 ± 0.2

Sigma

3.547 ± 0.056

LE time (ns)

Run# 19103014

tray_le_32

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9427

Mean

1022

RMS

168.5

χ^2 / ndf

2545 / 76

Constant

1746 ± 35.4

MPV

984.3 ± 0.2

Sigma

3.925 ± 0.068

Mon Apr 16 11:23:37 2018

Run# 19103014

tray_le_33

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9256

Mean

1007

RMS

113.4

χ^2 / ndf

1976 / 72

Constant

1804 ± 33.2

MPV

985.9 ± 0.2

Sigma

4.185 ± 0.064

Run# 19103014

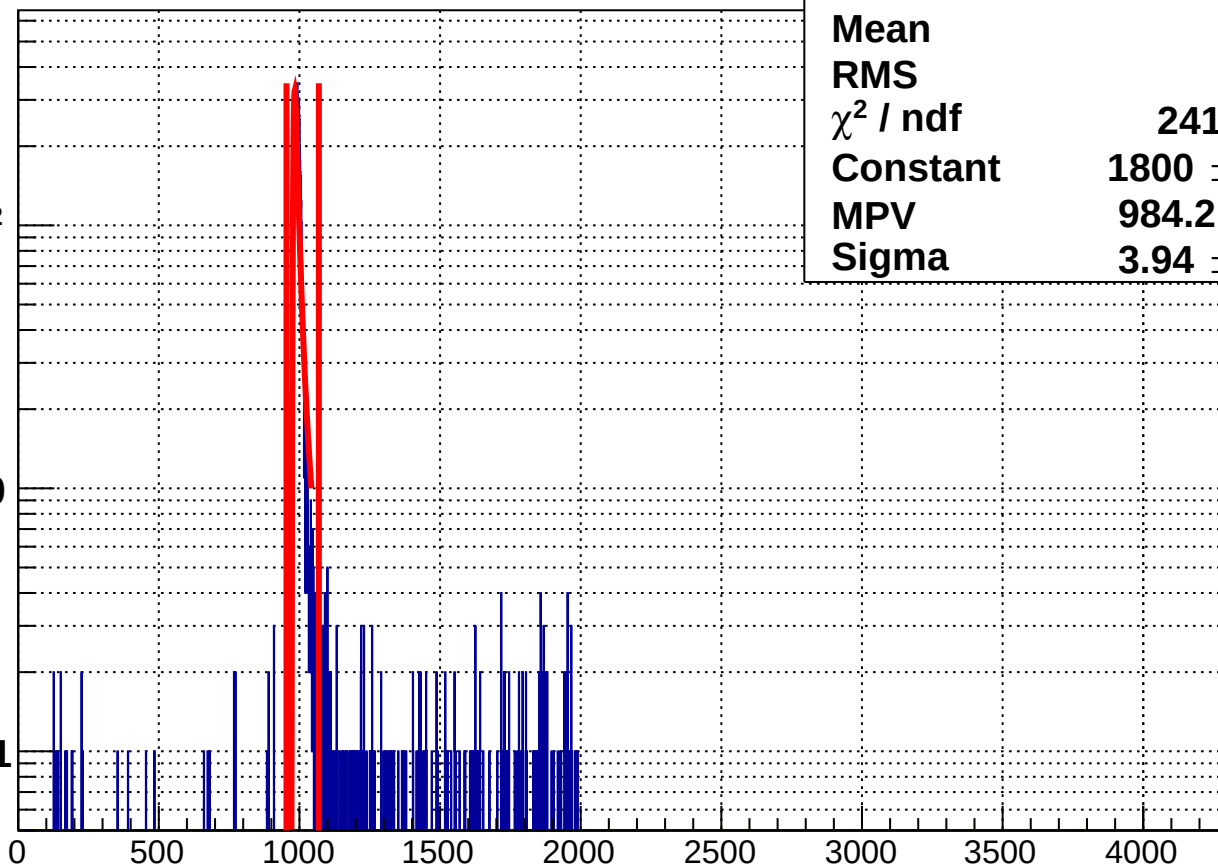
tray_le_34

count

10^2

10

1



Entries	9324
Mean	1006
RMS	109.9
χ^2 / ndf	2411 / 77
Constant	1800 ± 34.3
MPV	984.2 ± 0.2
Sigma	3.94 ± 0.06

LE time (ns)

Run# 19103014

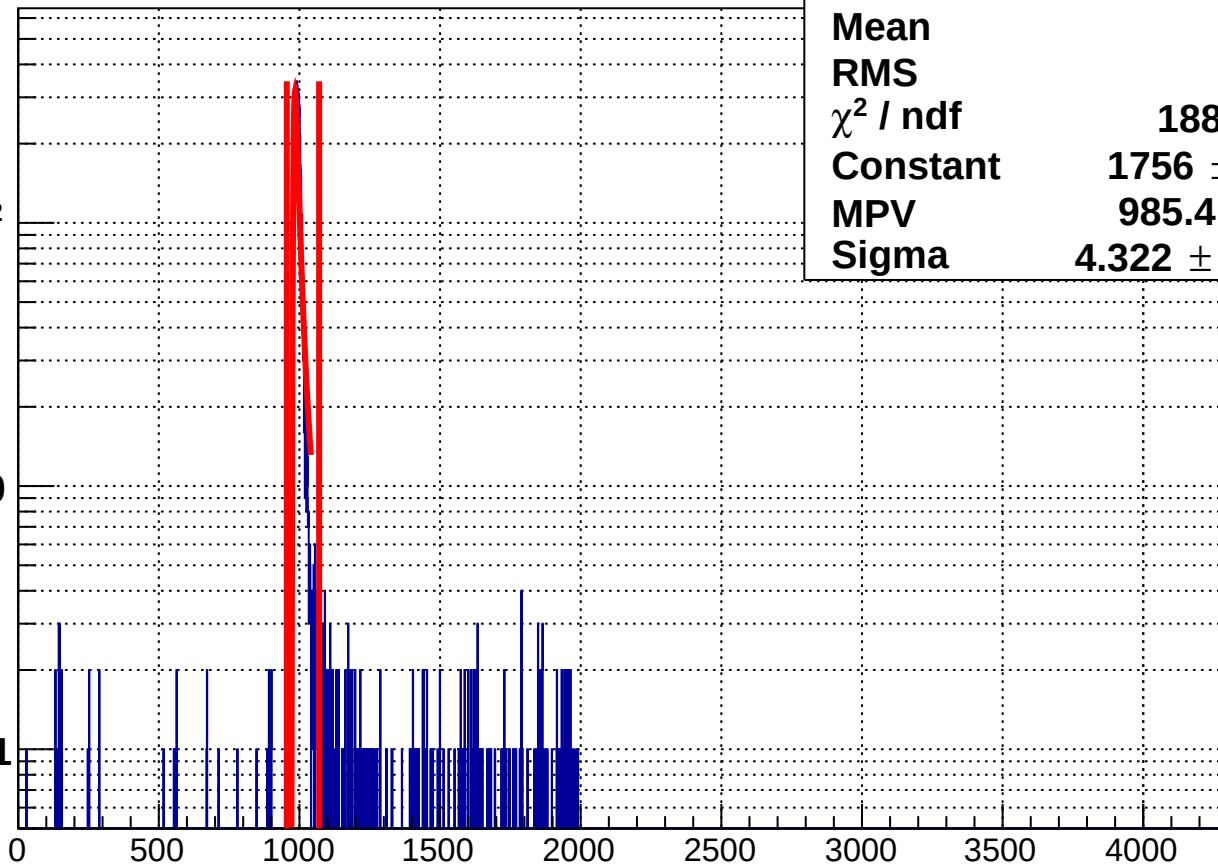
tray_le_35

count

10^2

10

1



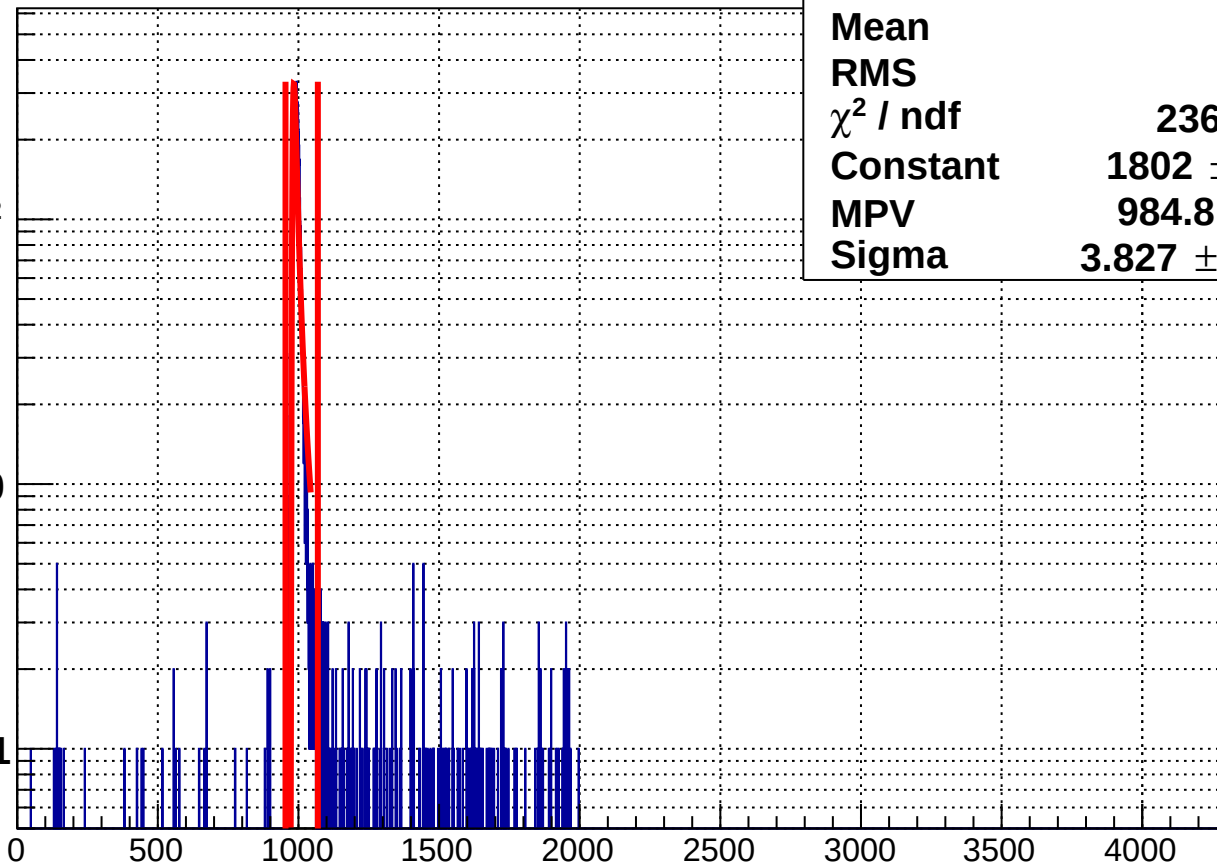
Entries	9185
Mean	1005
RMS	108.5
χ^2 / ndf	1886 / 74
Constant	1756 ± 31.2
MPV	985.4 ± 0.2
Sigma	4.322 ± 0.063

LE time (ns)

Run# 19103014**tray_le_36****count** 10^2

10

1



Entries	9102
Mean	1004
RMS	104.4
χ^2 / ndf	2361 / 78
Constant	1802 $\pm$ 35.0
MPV	984.8 $\pm$ 0.2
Sigma	3.827 $\pm$ 0.061

LE time (ns)

Run# 19103014

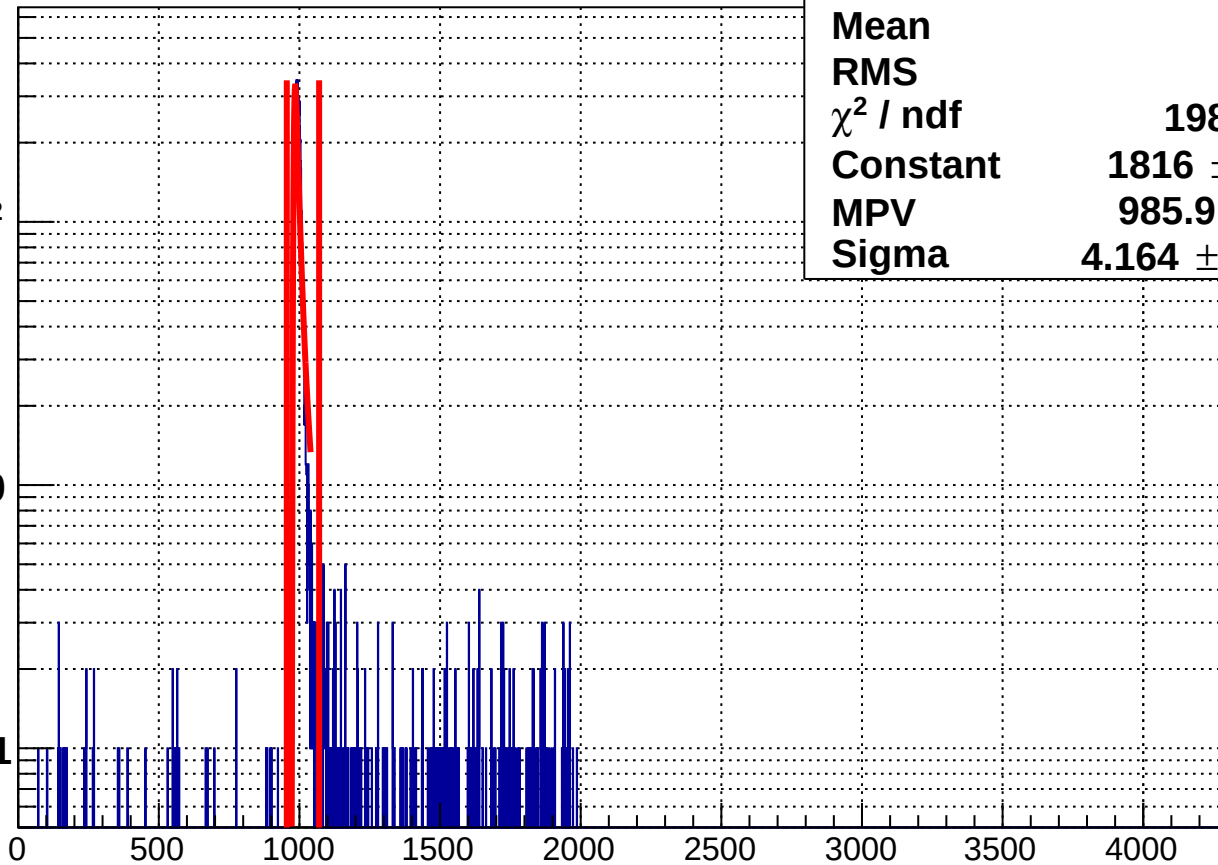
tray_le_37

count

10^2

10

1



Entries	9296
Mean	1005
RMS	110.7
χ^2 / ndf	1983 / 71
Constant	1816 ± 32.7
MPV	985.9 ± 0.2
Sigma	4.164 ± 0.061

LE time (ns)

Run# 19103014

tray_le_38

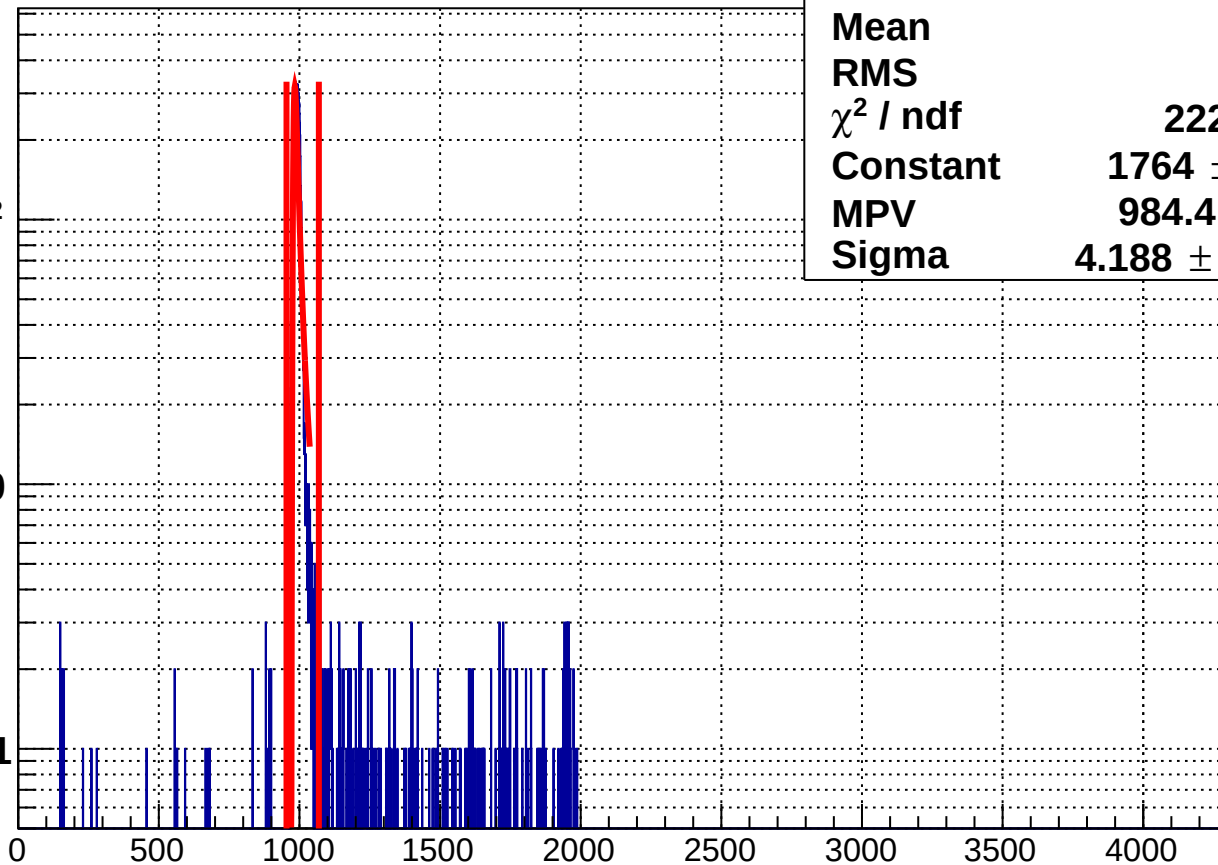
count

10^2

10

1

Entries	9338
Mean	1006
RMS	109.8
χ^2 / ndf	2227 / 71
Constant	1764 ± 34.3
MPV	984.4 ± 0.2
Sigma	4.188 ± 0.070



Mon Apr 16 11:23:37 2018

Run# 19103014

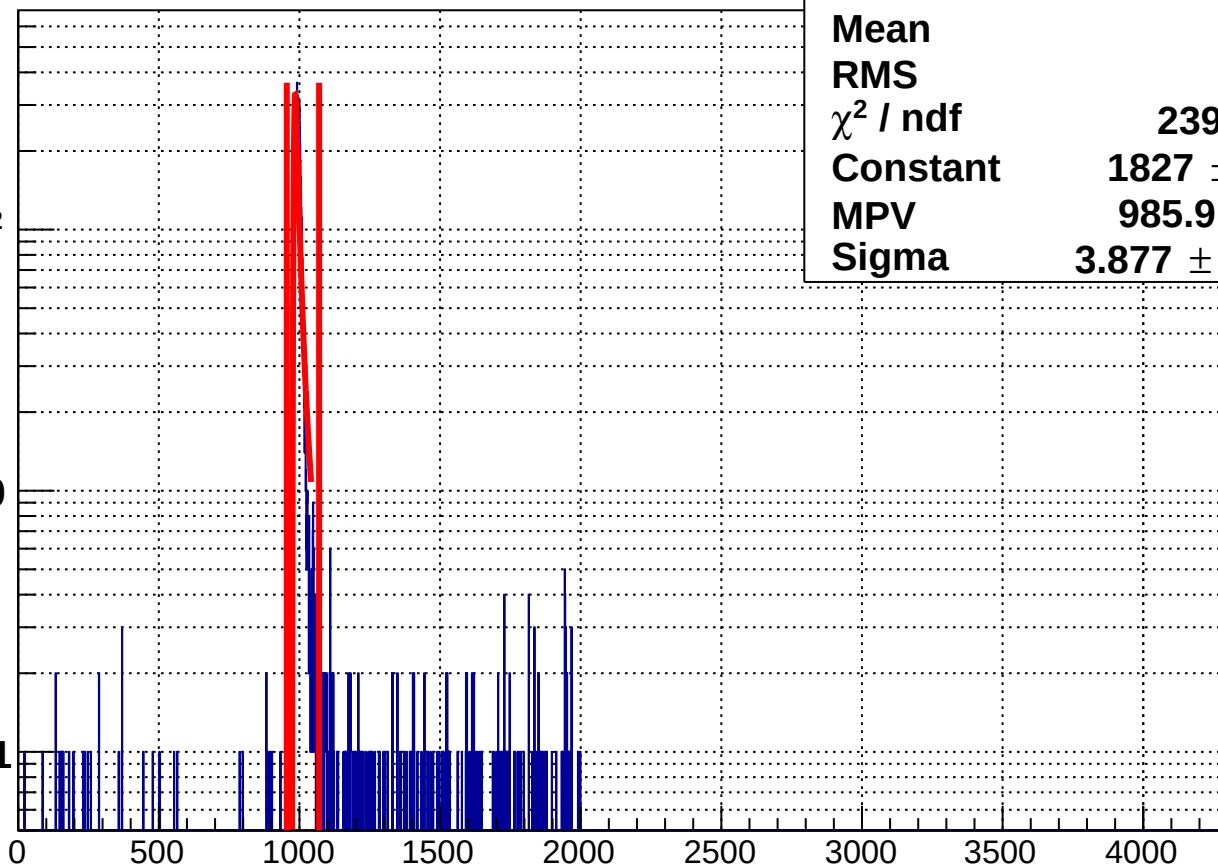
tray_le_39

count

10^2

10

1



Entries	9272
Mean	1004
RMS	105.4
χ^2 / ndf	2390 / 76
Constant	1827 ± 33.9
MPV	985.9 ± 0.2
Sigma	3.877 ± 0.058

LE time (ns)

Run# 19103014

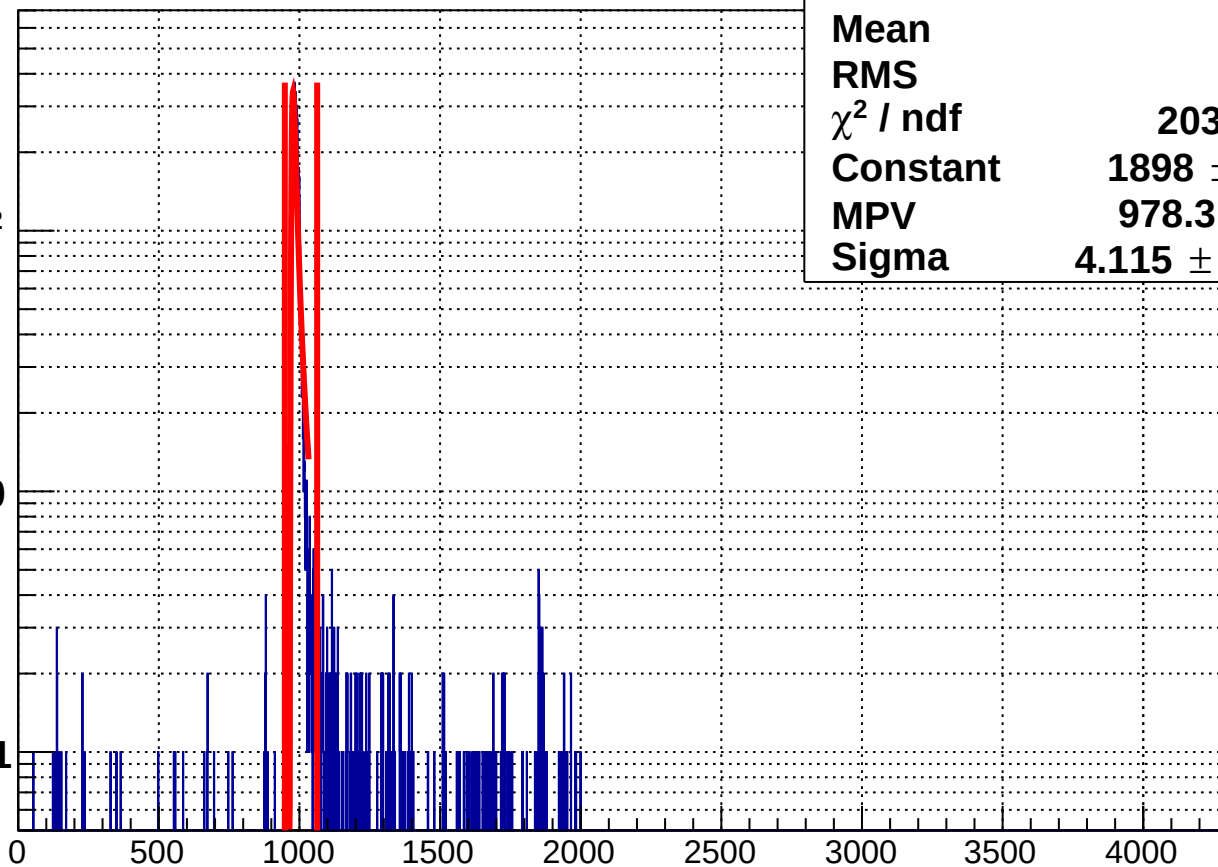
tray_le_40

count

10^2

10

1



Entries	9570
Mean	996.7
RMS	100.9
χ^2 / ndf	2037 / 73
Constant	1898 ± 33.7
MPV	978.3 ± 0.2
Sigma	4.115 ± 0.060

LE time (ns)

Run# 19103014

tray_le_41

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9247

Mean

998.3

RMS

110.2

χ^2 / ndf

2237 / 79

Constant

1842 ± 32.9

MPV

978.4 ± 0.2

Sigma

3.886 ± 0.055

Run# 19103014

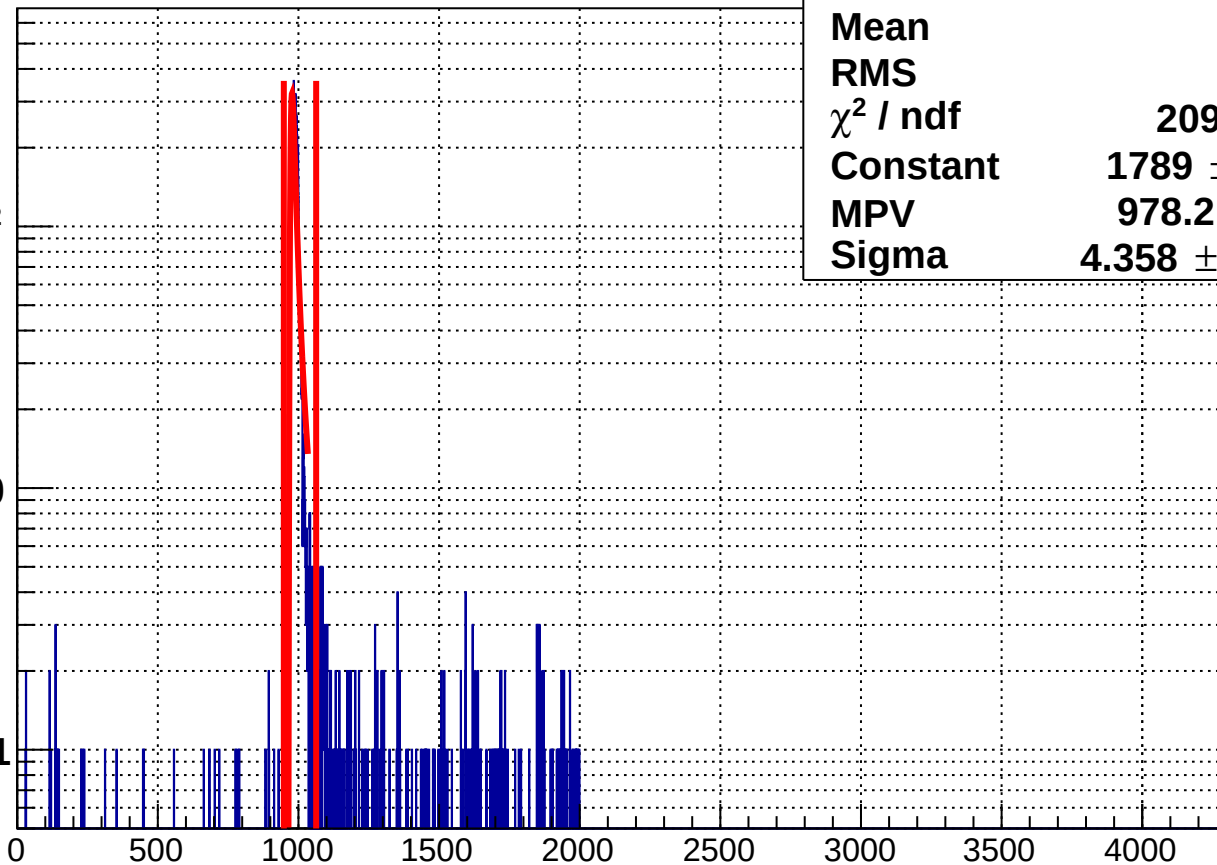
tray_le_42

count

10^2

10

1



Entries

9563

Mean

997.6

RMS

104

χ^2 / ndf

2092 / 74

Constant

1789 ± 31.6

MPV

978.2 ± 0.2

Sigma

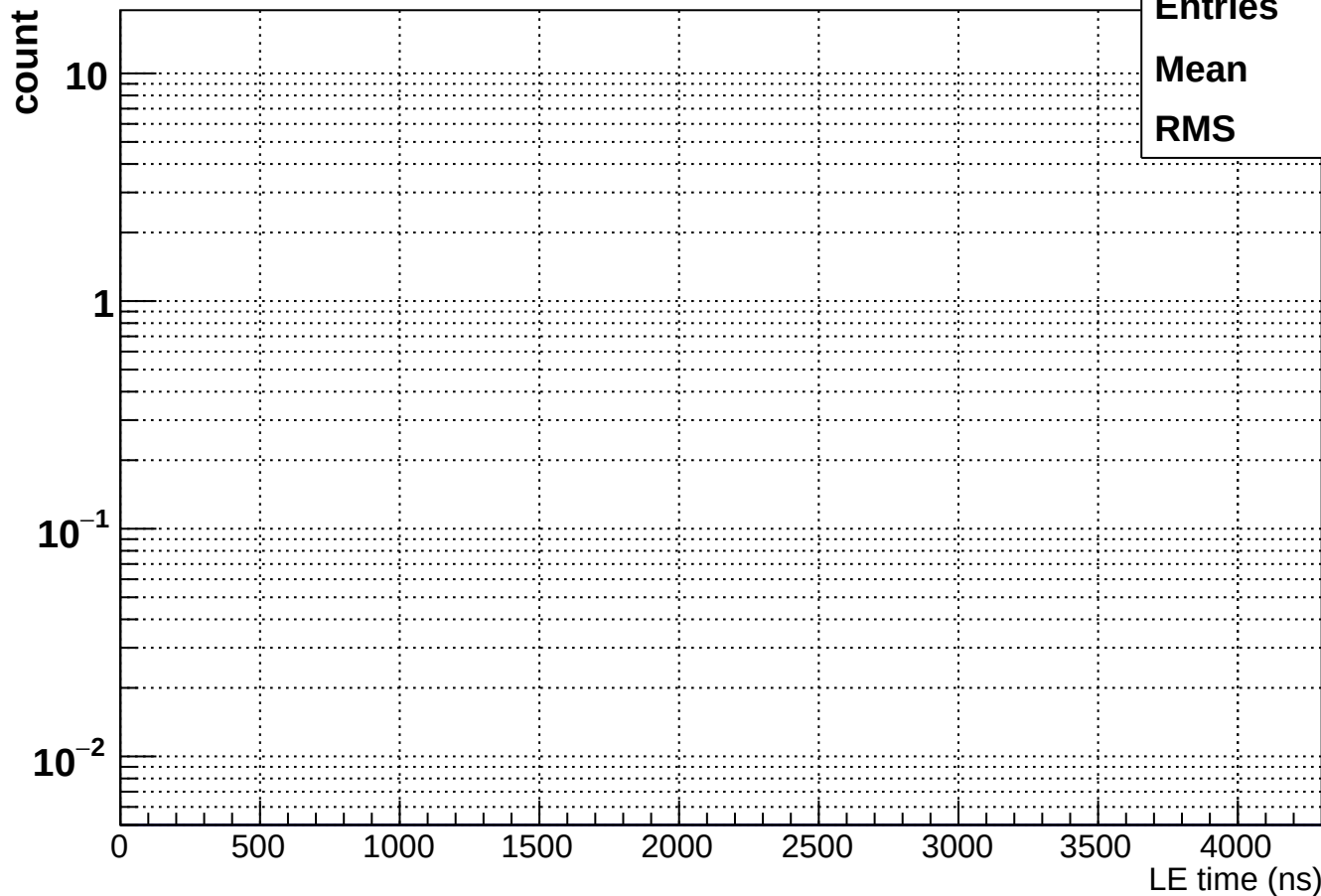
4.358 ± 0.061

LE time (ns)

Run# 19103014

tray_le_43

Entries	0
Mean	0
RMS	0



Run# 19103014

tray_le_44

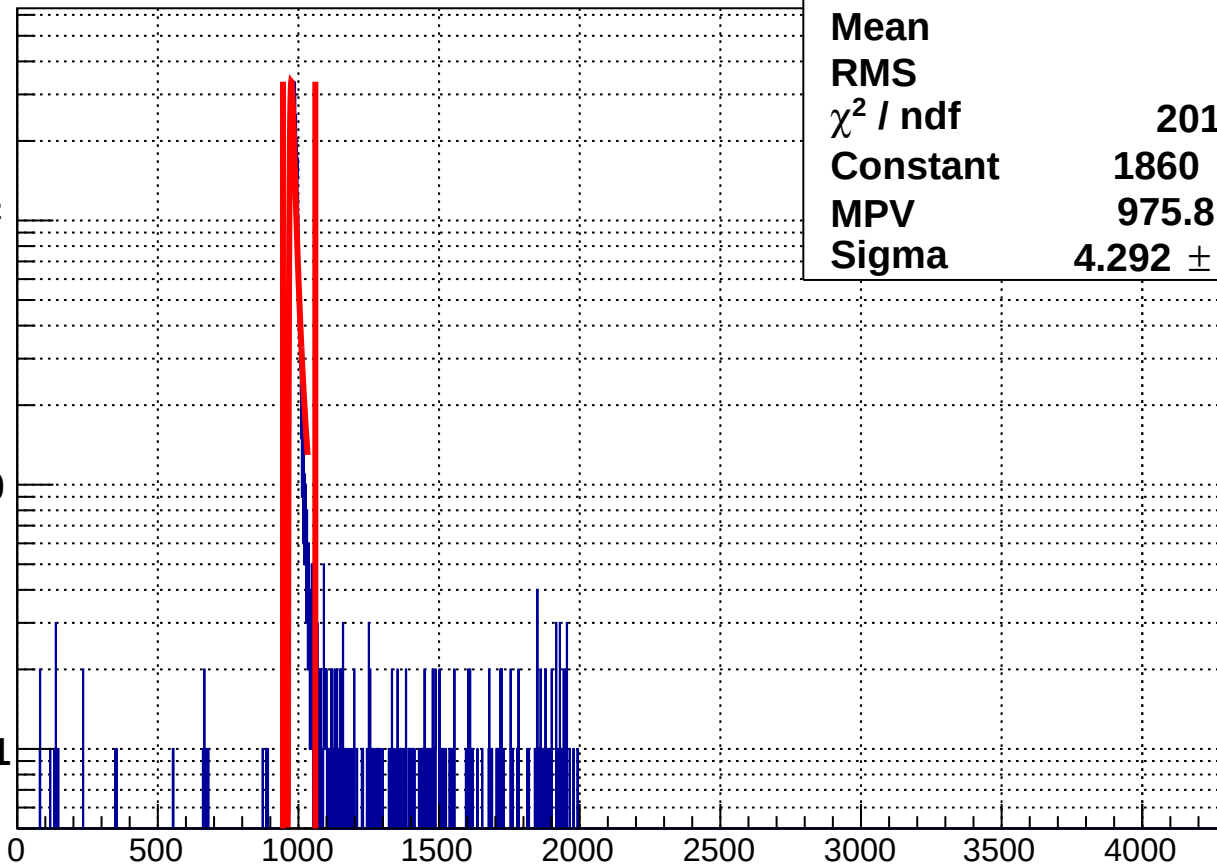
count

10^2

10

1

Entries	9692
Mean	996.7
RMS	106.5
χ^2 / ndf	2017 / 77
Constant	1860 ± 33.1
MPV	975.8 ± 0.2
Sigma	4.292 ± 0.064



LE time (ns)

Run# 19103014

tray_le_45

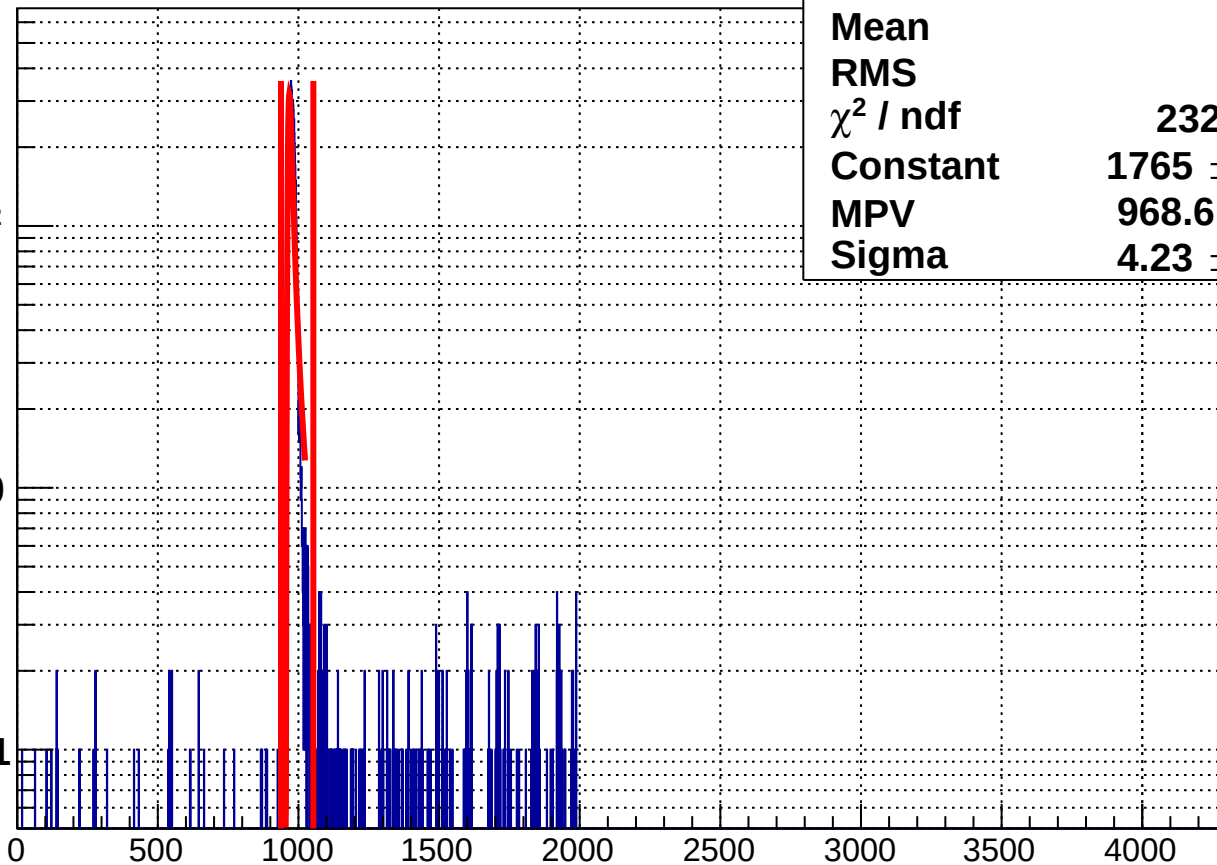
count

10^2

10

1

Entries	9505
Mean	989.8
RMS	108.9
χ^2 / ndf	2327 / 77
Constant	1765 ± 31.7
MPV	968.6 ± 0.2
Sigma	4.23 ± 0.06

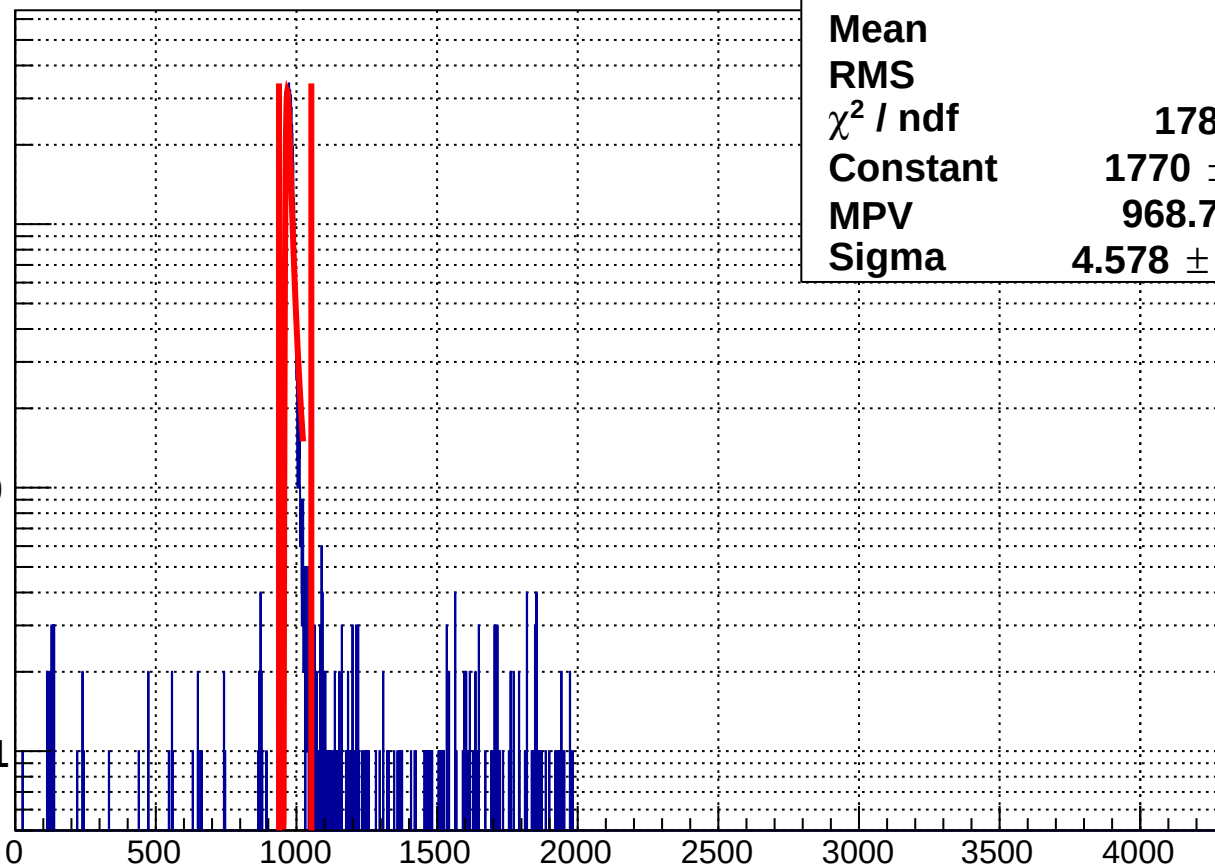


LE time (ns)

Run# 19103014**tray_le_46****count** 10^2

10

1



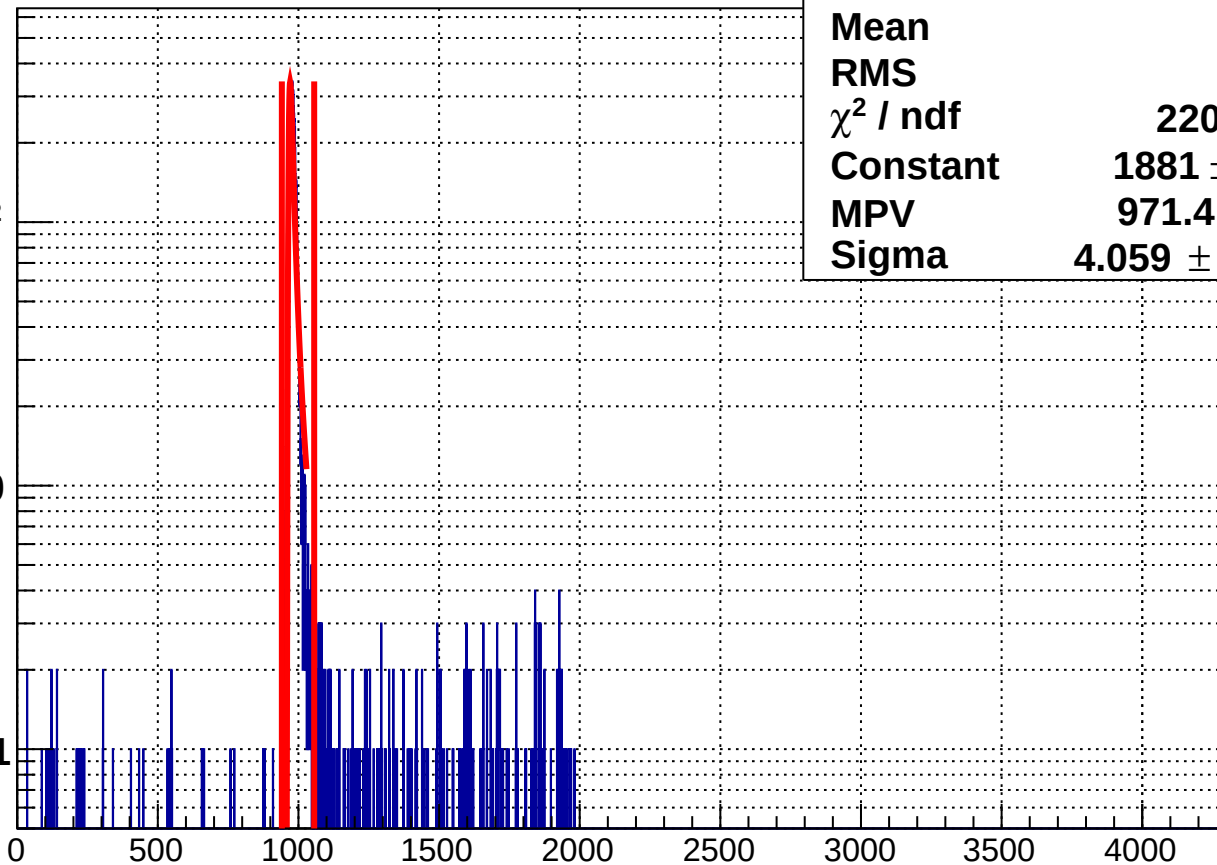
tray_le_46	
Entries	9492
Mean	986.4
RMS	102.9
χ^2 / ndf	1788 / 73
Constant	1770 $\pm$ 29.9
MPV	968.7 $\pm$ 0.1
Sigma	4.578 $\pm$ 0.062

LE time (ns)

Run# 19103014**tray_le_47****count** 10^2

10

1

**Entries****9608****Mean****989.8****RMS****110.6** χ^2 / ndf **2203 / 77****Constant** **1881 ± 35.0** **MPV** **971.4 ± 0.2** **Sigma** **4.059 ± 0.063**

LE time (ns)

Mon Apr 16 11:23:38 2018

Run# 19103014

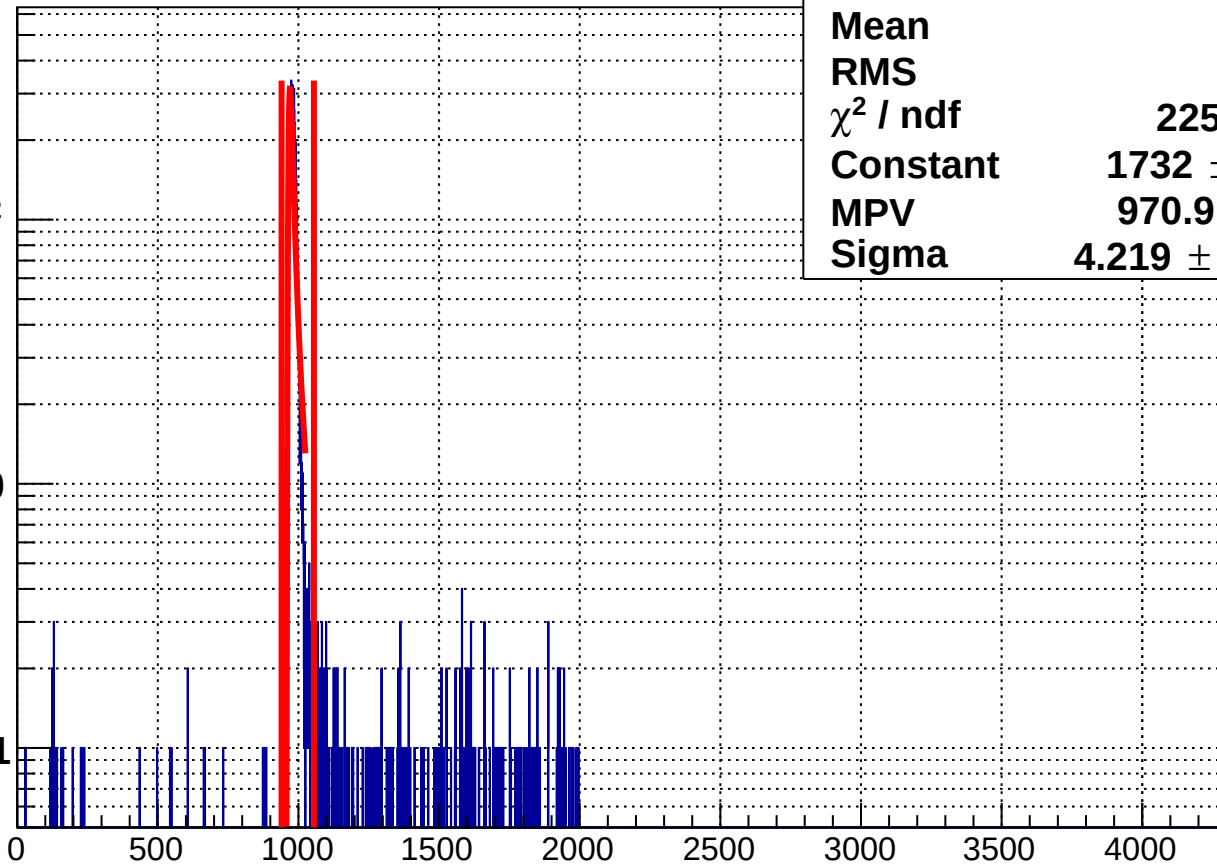
tray_le_48

count

10^2

10

1



LE time (ns)

Mon Apr 16 11:23:38 2018

Run# 19103014

tray_le_49

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9348

Mean

987.5

RMS

95.42

χ^2 / nfd

2062 / 71

Constant

1689 ± 30.0

MPV

971.5 ± 0.2

Sigma

4.545 ± 0.066

Mon Apr 16 11:23:38 2018

Run# 19103014

tray_le_50

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9248

Mean

988.5

RMS

110.4

χ^2 / ndf

1782 / 73

Constant

1634 ± 28.3

MPV

968.6 ± 0.2

Sigma

4.819 ± 0.068

Run# 19103014

tray_le_51

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9071

Mean

1044

RMS

111.7

χ^2 / ndf

2463 / 77

Constant

1789 ± 33.4

MPV

1027 ± 0.2

Sigma

3.778 ± 0.056

Run# 19103014

tray_le_52

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9465

Mean

1047

RMS

102

χ^2 / nfd

2076 / 72

Constant

1891 ± 33.2

MPV

1030 ± 0.2

Sigma

4.054 ± 0.058

Mon Apr 16 11:23:38 2018

Run# 19103014

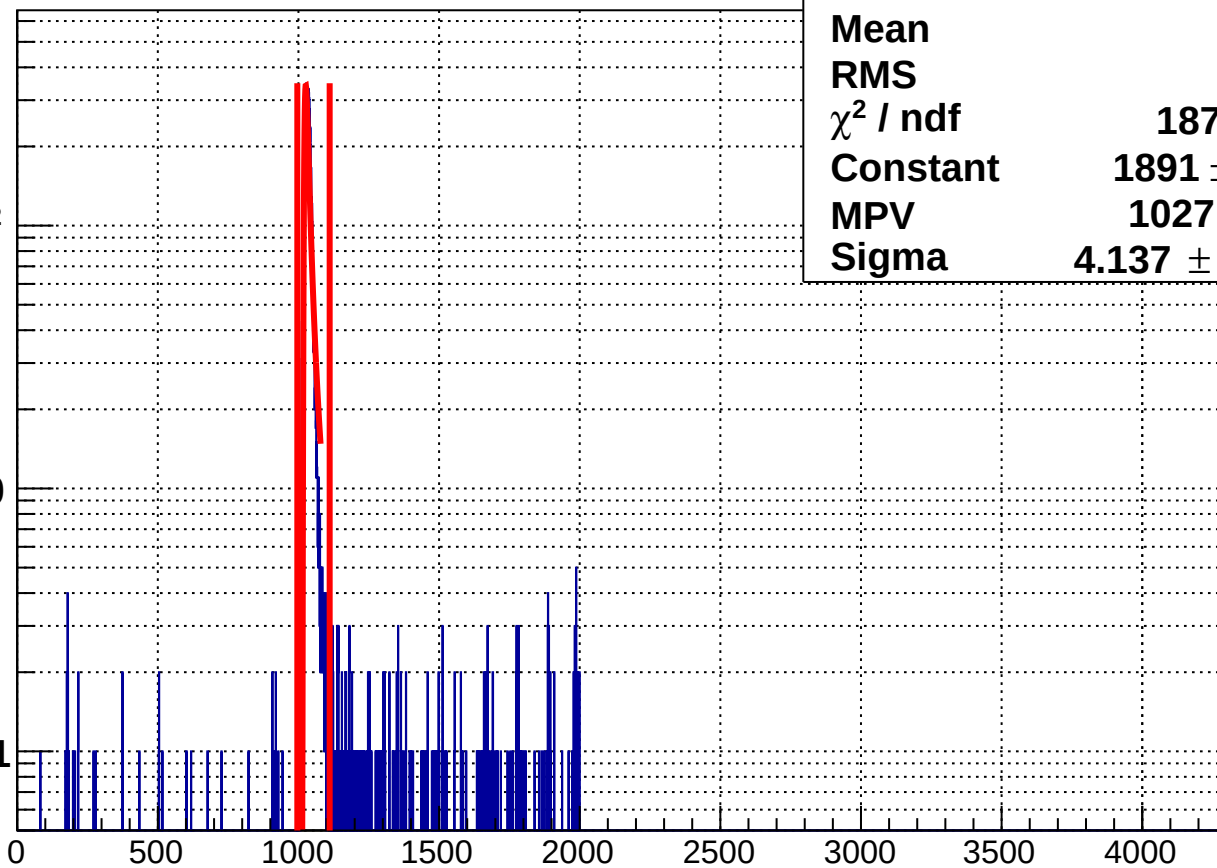
tray_le_53

count

10^2

10

1



LE time (ns)

Run# 19103014

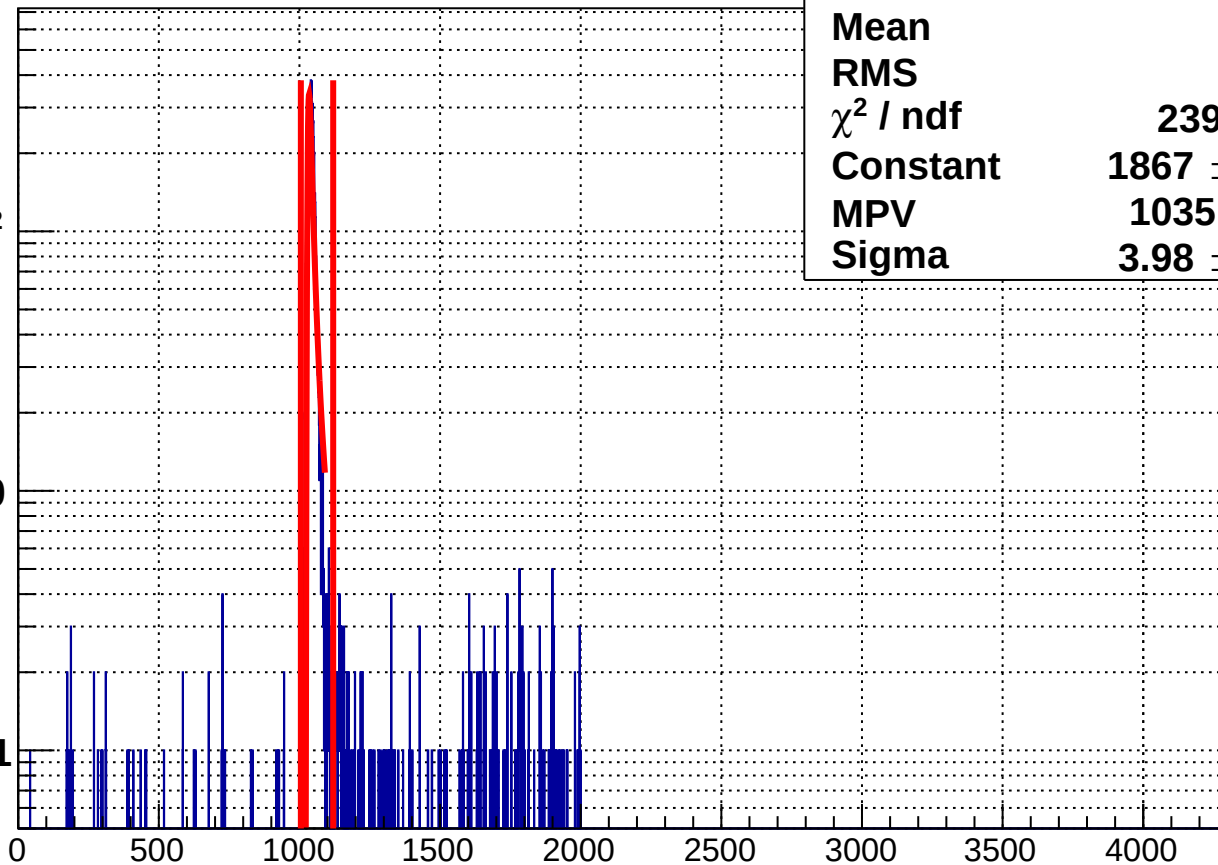
tray_le_54

count

10^2

10

1



Entries	9573
Mean	1053
RMS	103.1
χ^2 / ndf	2391 / 74
Constant	1867 ± 35.6
MPV	1035 ± 0.2
Sigma	3.98 ± 0.06

Run# 19103014

tray_le_55

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9436

Mean

1053

RMS

99.63

χ^2 / nfd

2201 / 76

Constant

1894 ± 36.5

MPV

1036 ± 0.2

Sigma

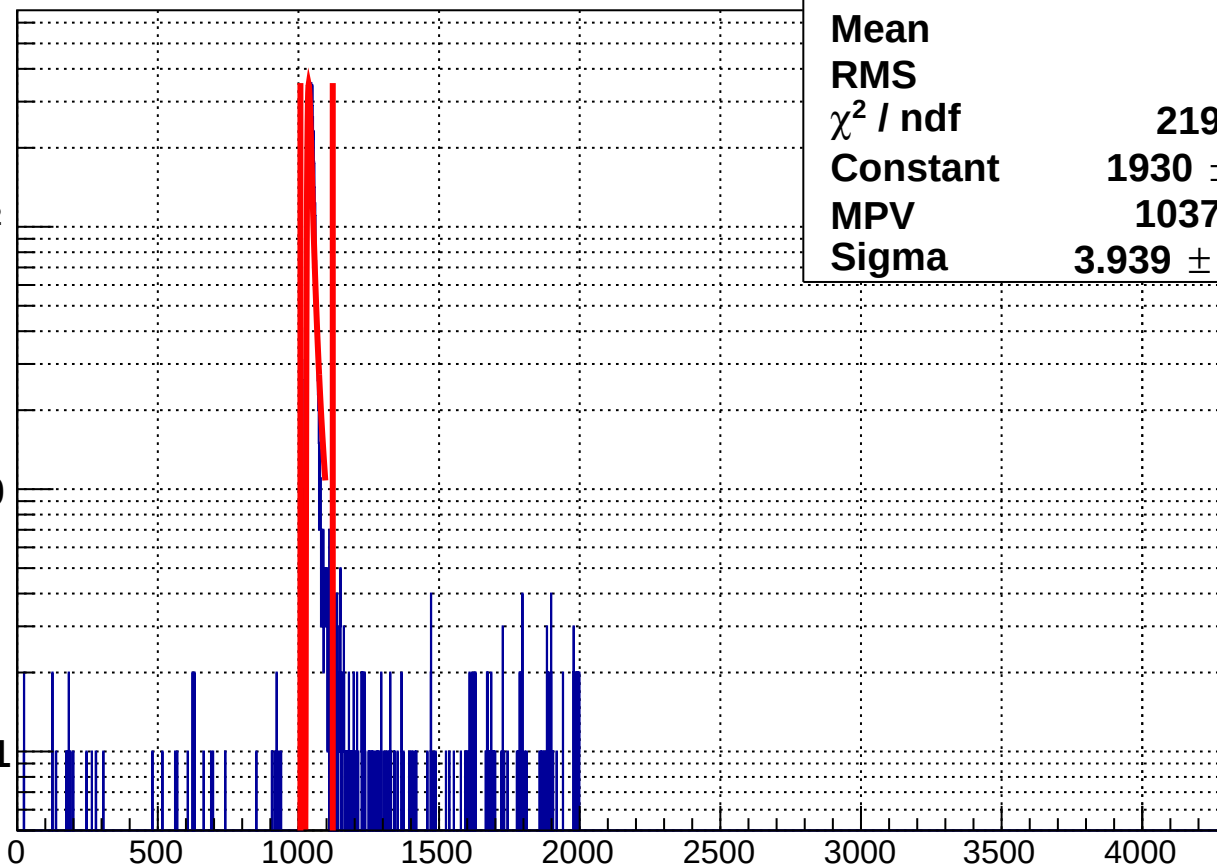
3.95 ± 0.06

Mon Apr 16 11:23:38 2018

Run# 19103014**tray_le_56****count** 10^2

10

1



LE time (ns)

Mon Apr 16 11:23:38 2018

Run# 19103014

tray_le_57

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9534

Mean

1057

RMS

100.6

χ^2 / ndf

2088 / 75

Constant

1935 ± 34.3

MPV

1038 ± 0.2

Sigma

3.967 ± 0.057

Run# 19103014

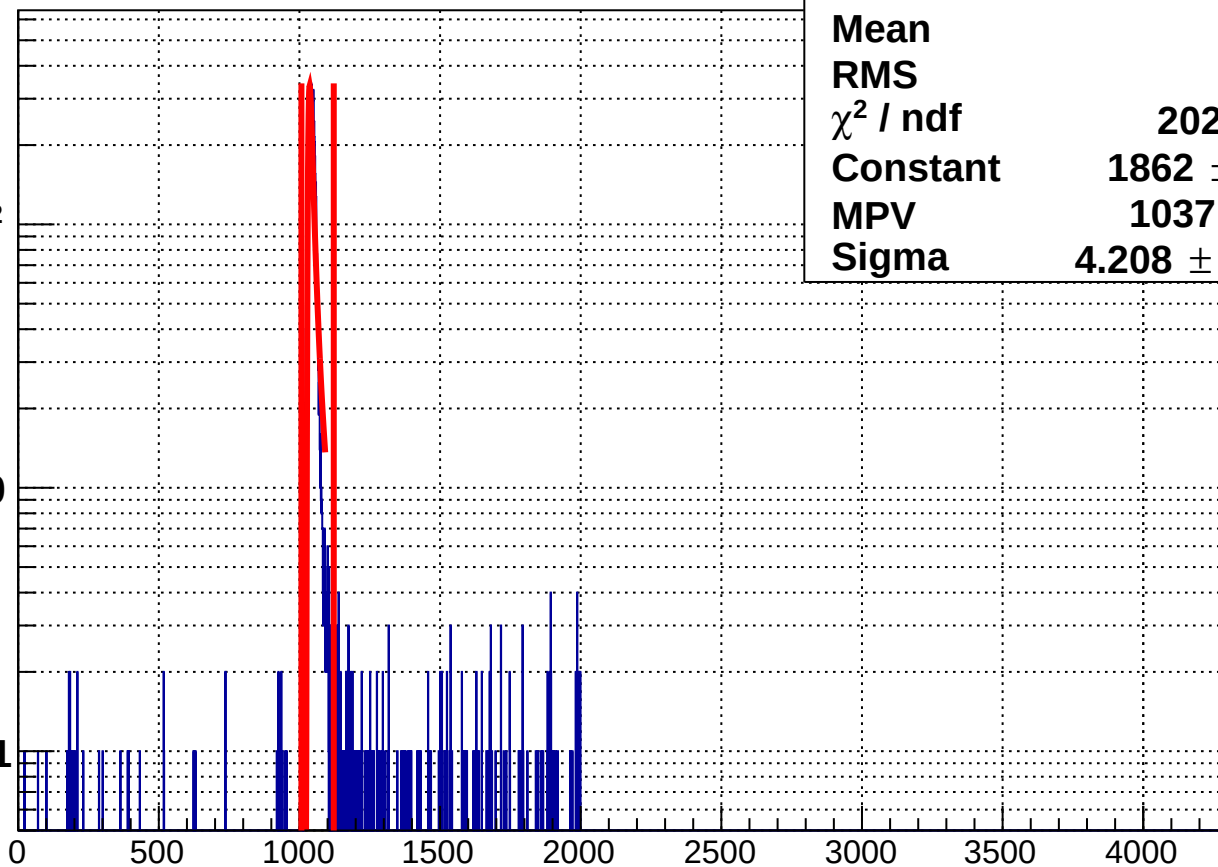
tray_le_58

count

10^2

10

1



Entries

9516

Mean

1053

RMS

95.53

χ^2 / ndf

2027 / 74

Constant

1862 ± 33.5

MPV

1037 ± 0.2

Sigma

4.208 ± 0.063

LE time (ns)

Run# 19103014

tray_le_59

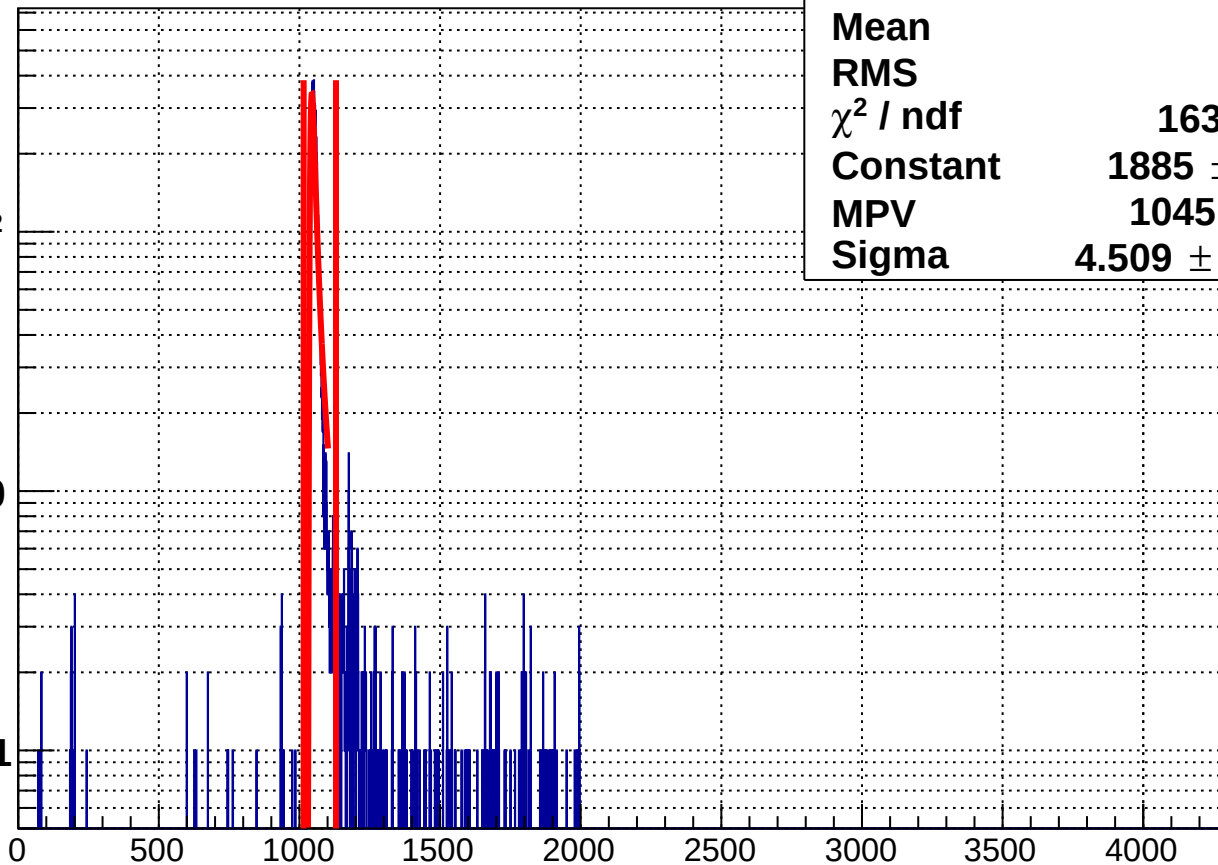
count

10^2

10

1

Entries	9932
Mean	1063
RMS	97.9
χ^2 / nfd	1630 / 77
Constant	1885 ± 34.0
MPV	1045 ± 0.2
Sigma	4.509 ± 0.070



LE time (ns)

Run# 19103014

tray_le_60

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9386

Mean

1062

RMS

102

χ^2 / ndf

2007 / 77

Constant

1780 ± 32.3

MPV

1044 ± 0.2

Sigma

4.304 ± 0.065

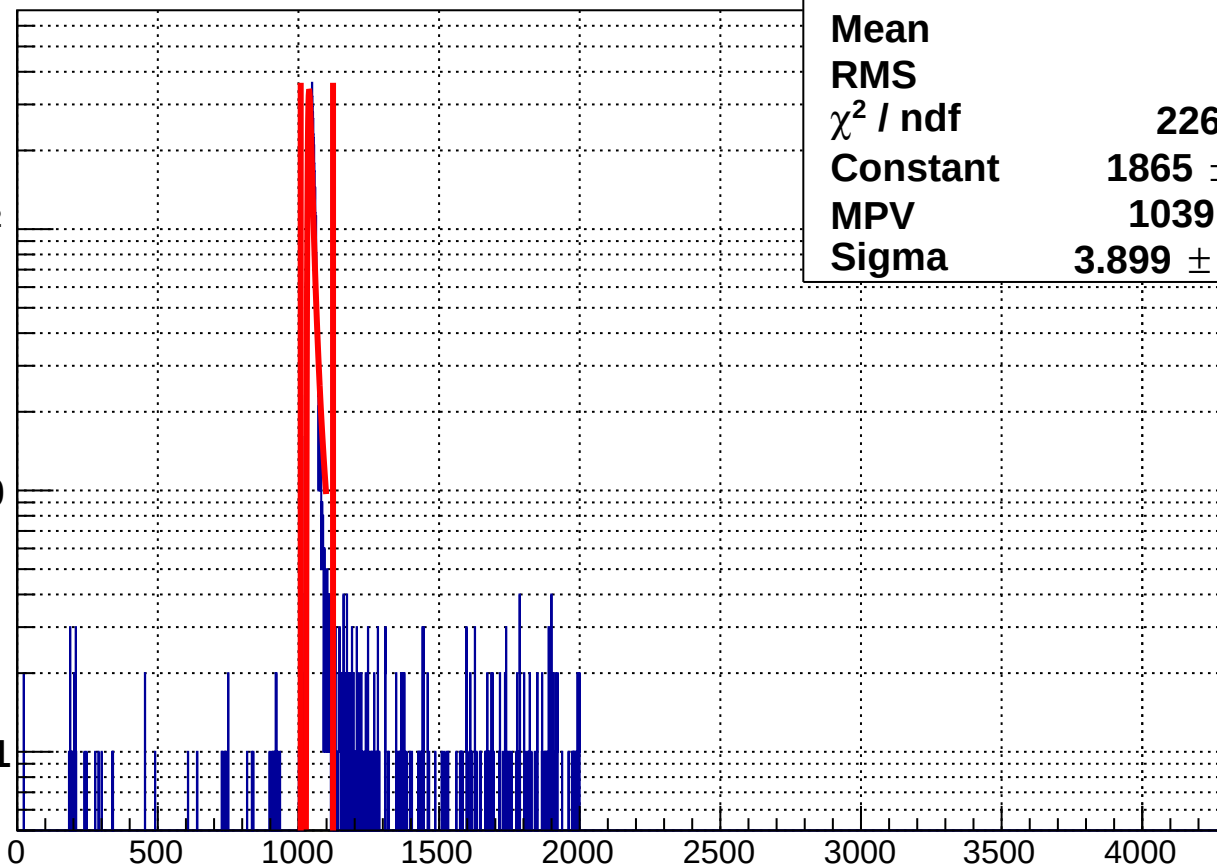
Run# 19103014

count

10^2

10

1



tray_le_61

Entries	9400
Mean	1058
RMS	108
χ^2 / ndf	2267 / 79
Constant	1865 ± 33.5
MPV	1039 ± 0.2
Sigma	3.899 ± 0.056

LE time (ns)

Run# 19103014

tray_le_62

count

10^2

10

1

Entries	8697
Mean	1065
RMS	139.6
χ^2 / ndf	1720 / 77
Constant	1621 ± 31.0
MPV	1039 ± 0.2
Sigma	4.411 ± 0.071

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Mon Apr 16 11:23:38 2018

Run# 19103014

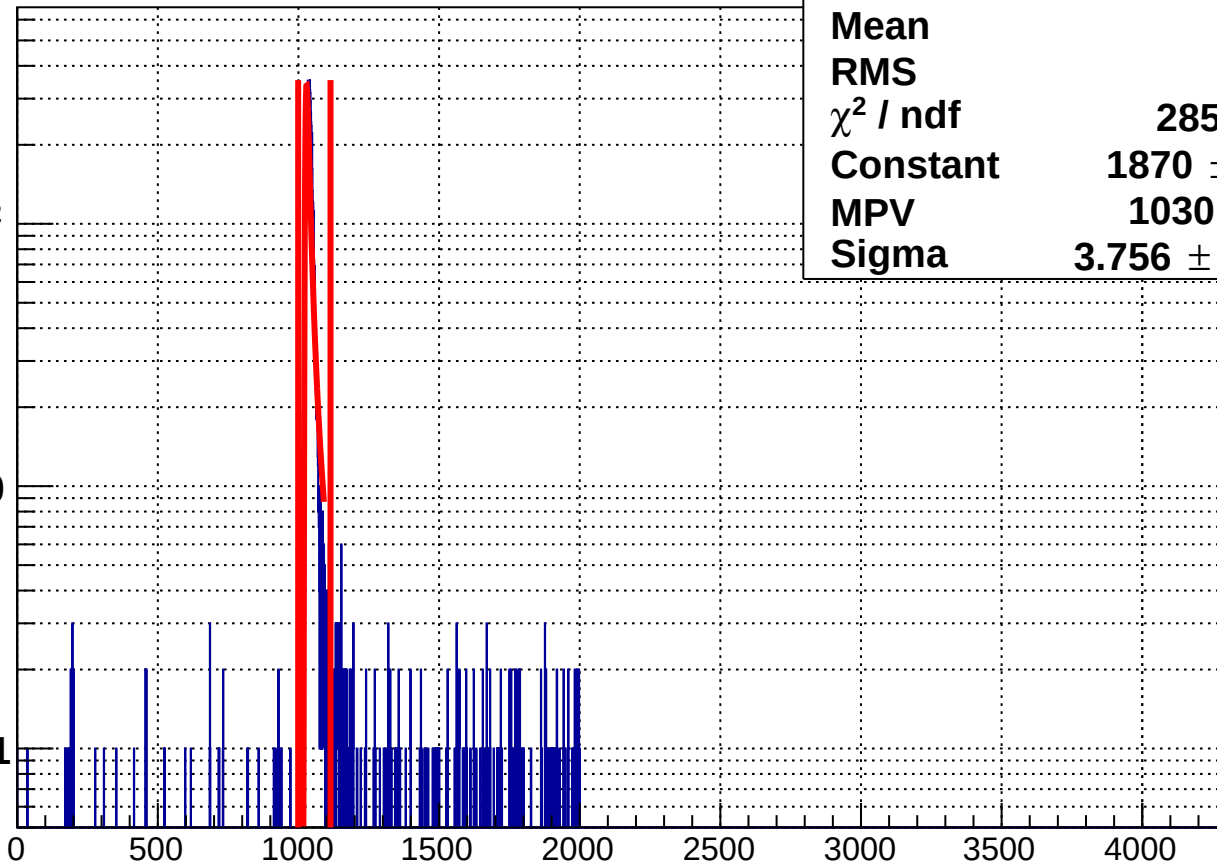
tray_le_63

count

10^2

10

1



Entries

9749

Mean

1048

RMS

104.4

χ^2 / ndf

2857 / 79

Constant

1870 ± 32.7

MPV

1030 ± 0.2

Sigma

3.756 ± 0.050

LE time (ns)

Run# 19103014

tray_le_64

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

7950

Mean

1048

RMS

98.31

χ^2 / ndf

1568 / 74

Constant

1530 ± 29.1

MPV

1031 ± 0.2

Sigma

4.367 ± 0.068

Run# 19103014

tray_le_65

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

7981

Mean

1050

RMS

98.62

χ^2 / ndf

1536 / 74

Constant

1559 ± 29.5

MPV

1031 ± 0.2

Sigma

4.265 ± 0.066

Run# 19103014

tray_le_66

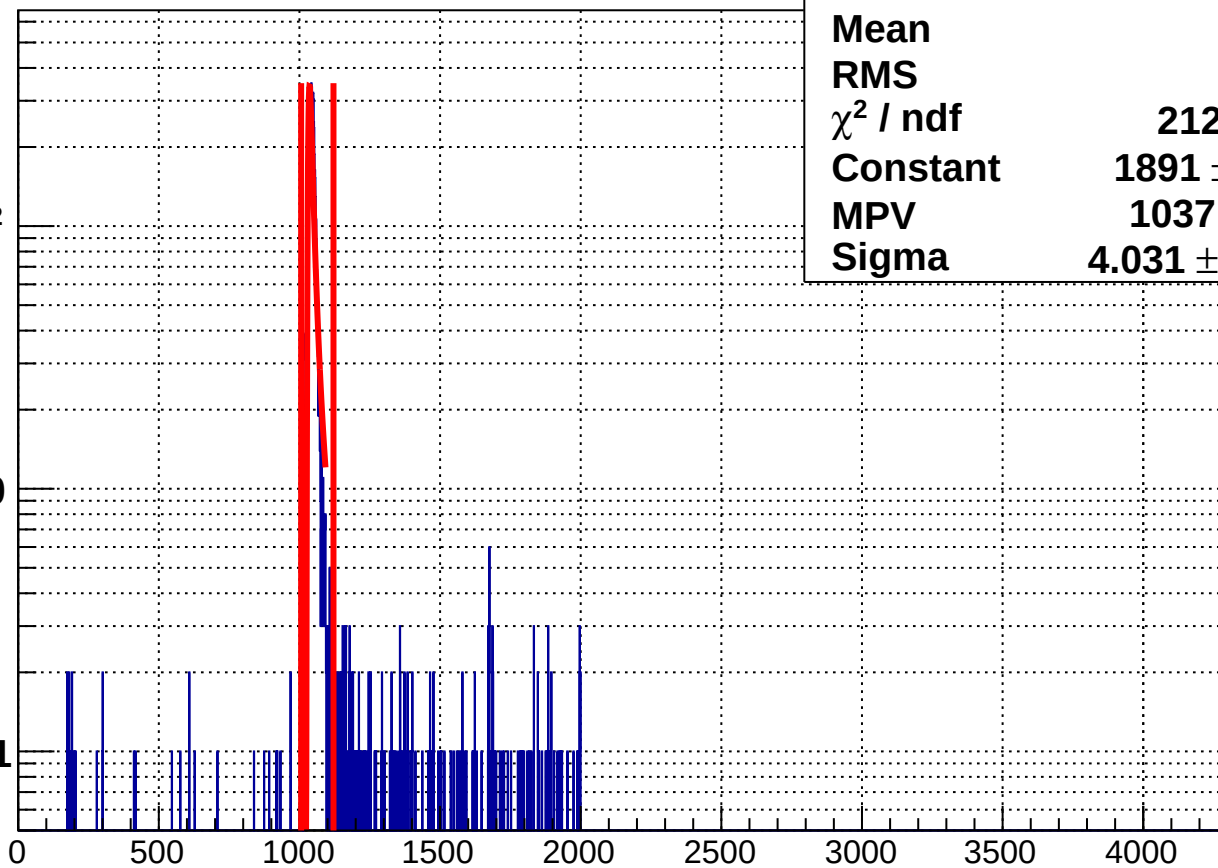
count

10^2

10

1

Entries	9473
Mean	1054
RMS	95.45
χ^2 / ndf	2126 / 75
Constant	1891 ± 34.5
MPV	1037 ± 0.2
Sigma	4.031 ± 0.061



Mon Apr 16 11:23:38 2018

Run# 19103014

tray_le_67

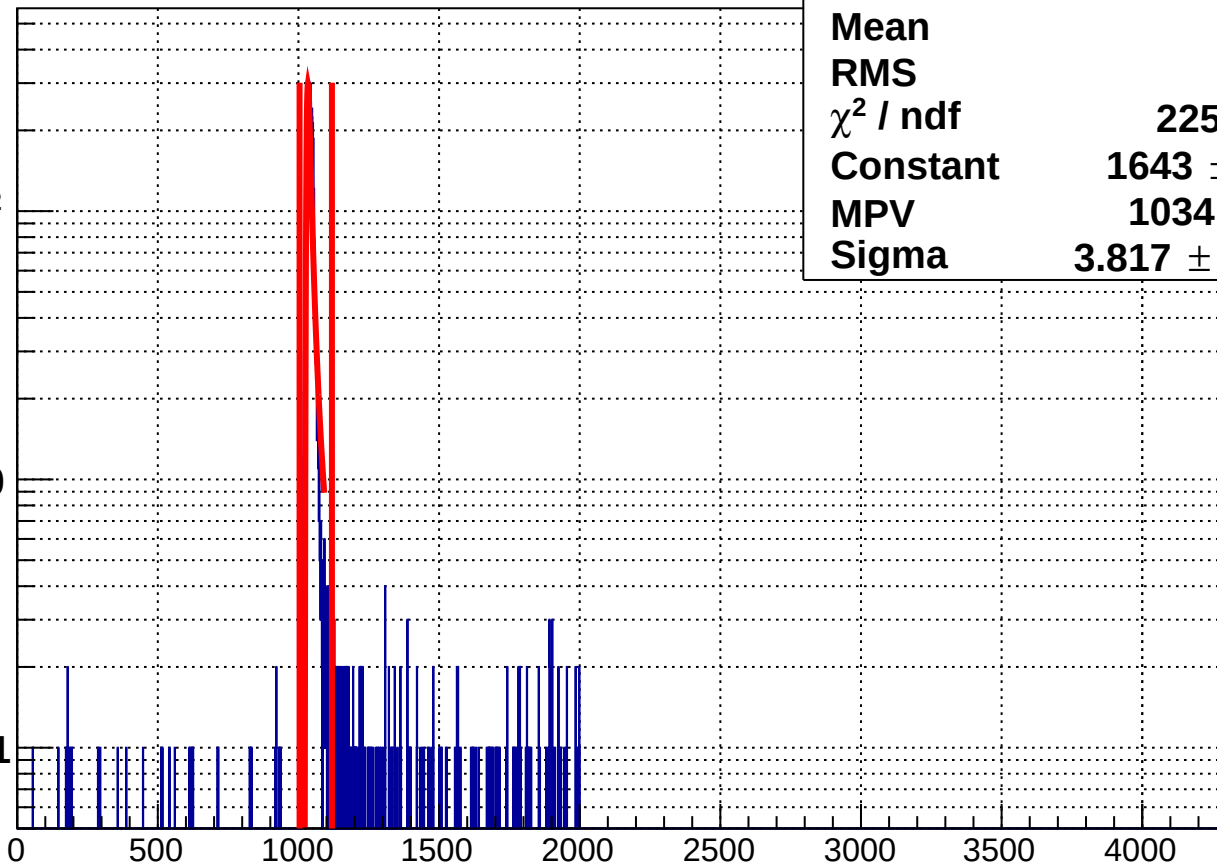
count

10^2

10

1

Entries	8349
Mean	1050
RMS	95.22
χ^2 / ndf	2254 / 76
Constant	1643 ± 36.3
MPV	1034 ± 0.2
Sigma	3.817 ± 0.073



LE time (ns)

Run# 19103014

tray_le_68

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9170

Mean

1054

RMS

94.52

χ^2 / ndf

2633 / 82

Constant

1867 ± 35.7

MPV

1037 ± 0.2

Sigma

3.553 ± 0.054

Run# 19103014

tray_le_69

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9359

Mean

1054

RMS

100.9

χ^2 / ndf

2285 / 73

Constant

1872 ± 36.0

MPV

1035 ± 0.2

Sigma

3.908 ± 0.064

Run# 19103014

tray_le_70

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

8999

Mean

1054

RMS

98.93

χ^2 / nfd

2290 / 73

Constant

1906 ± 36.9

MPV

1037 ± 0.2

Sigma

3.623 ± 0.058

Run# 19103014

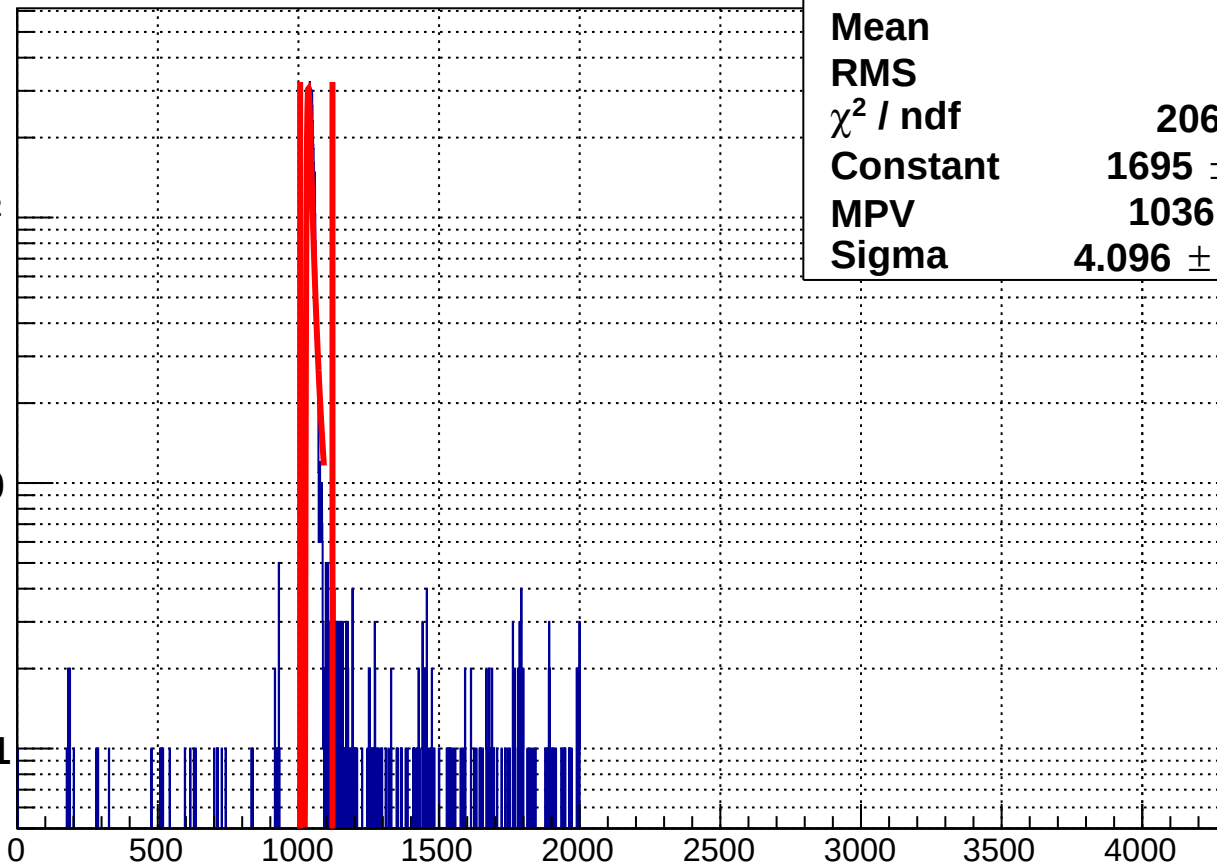
tray_le_71

count

10^2

10

1



Entries	8776
Mean	1056
RMS	102.6
χ^2 / ndf	2067 / 72
Constant	1695 ± 30.6
MPV	1036 ± 0.2
Sigma	4.096 ± 0.059

LE time (ns)

Run# 19103014

tray_le_72

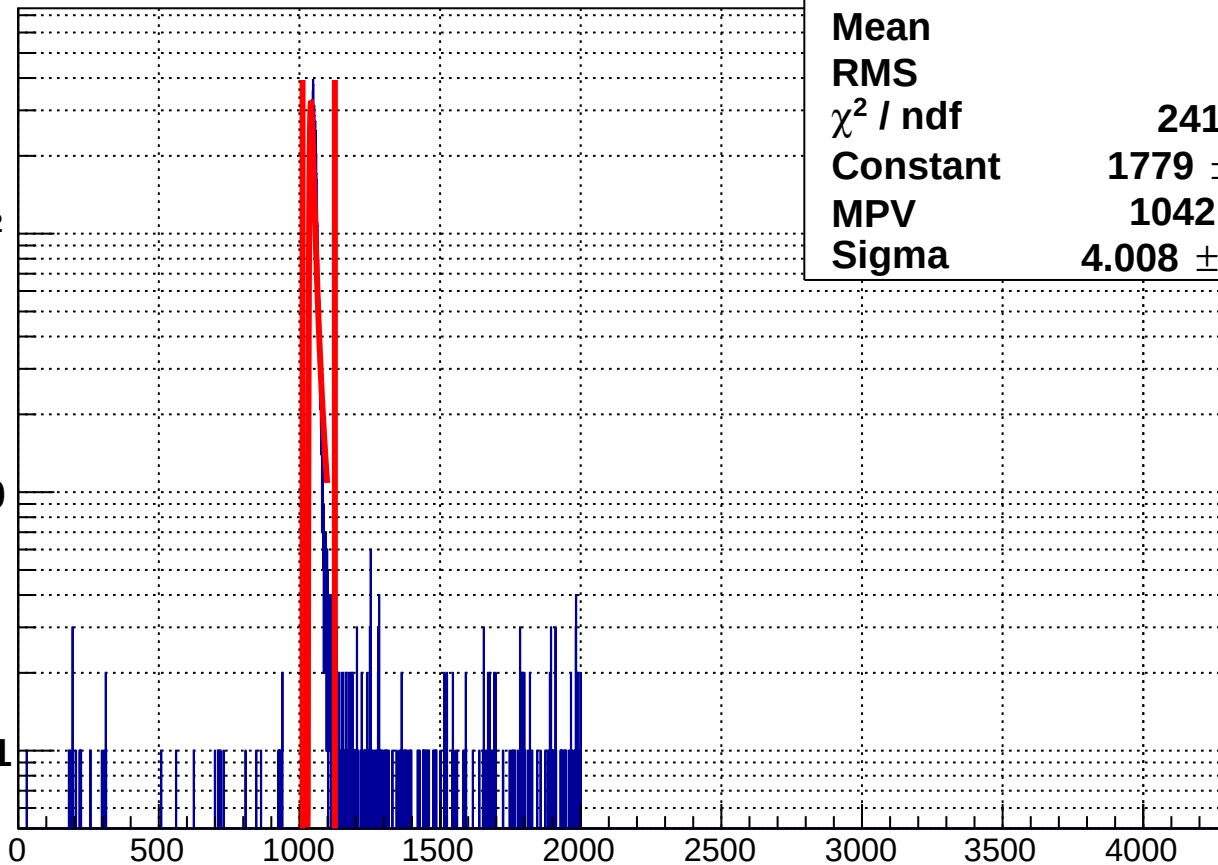
count

10^2

10

1

Entries	9330
Mean	1061
RMS	101.9
χ^2 / ndf	2417 / 76
Constant	1779 ± 33.2
MPV	1042 ± 0.2
Sigma	4.008 ± 0.061



Mon Apr 16 11:23:39 2018

Run# 19103014

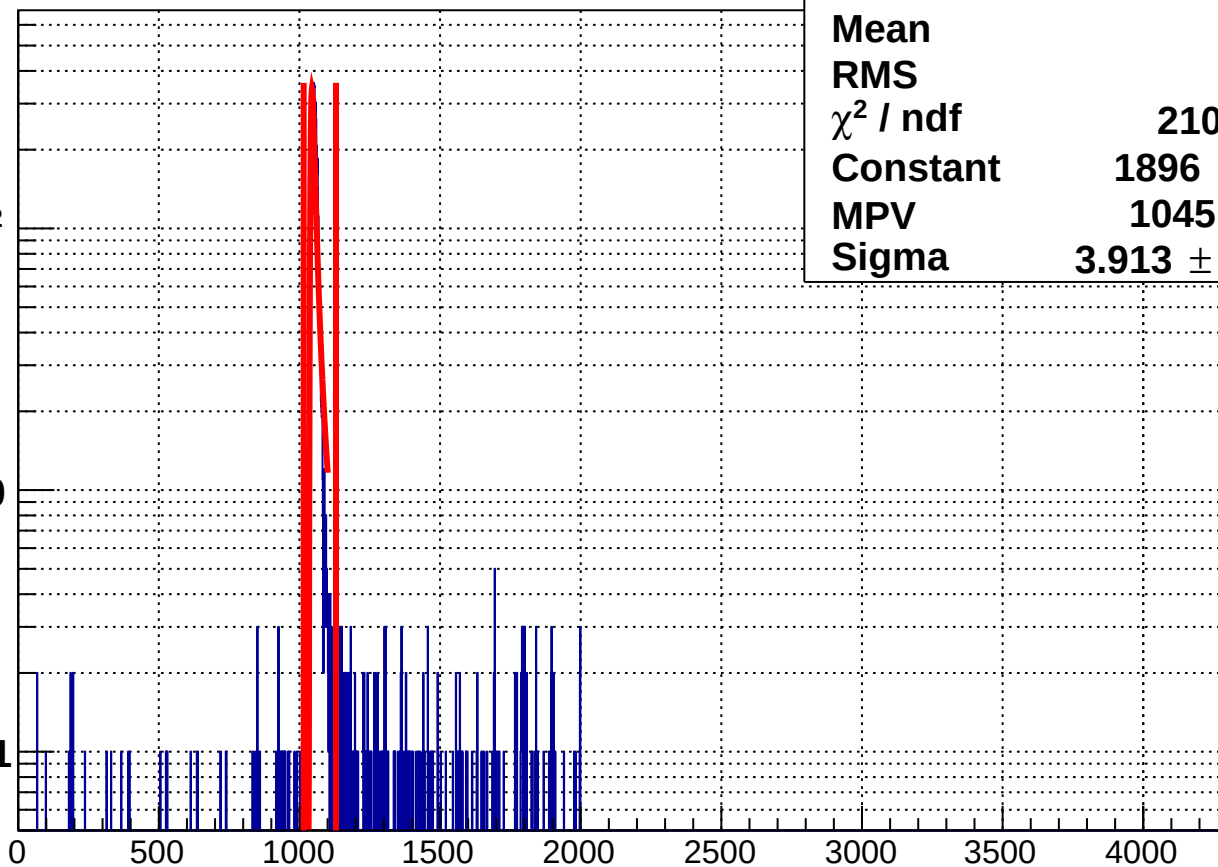
tray_le_73

count

10^2

10

1



Entries	9299
Mean	1063
RMS	94.99
χ^2 / ndf	2107 / 75
Constant	1896 ± 34.1
MPV	1045 ± 0.2
Sigma	3.913 ± 0.057

LE time (ns)

Run# 19103014

tray_le_74

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9476

Mean

1057

RMS

90.28

χ^2 / ndf

2602 / 78

Constant

1820 ± 34.7

MPV

1042 ± 0.2

Sigma

3.903 ± 0.062

Run# 19103014

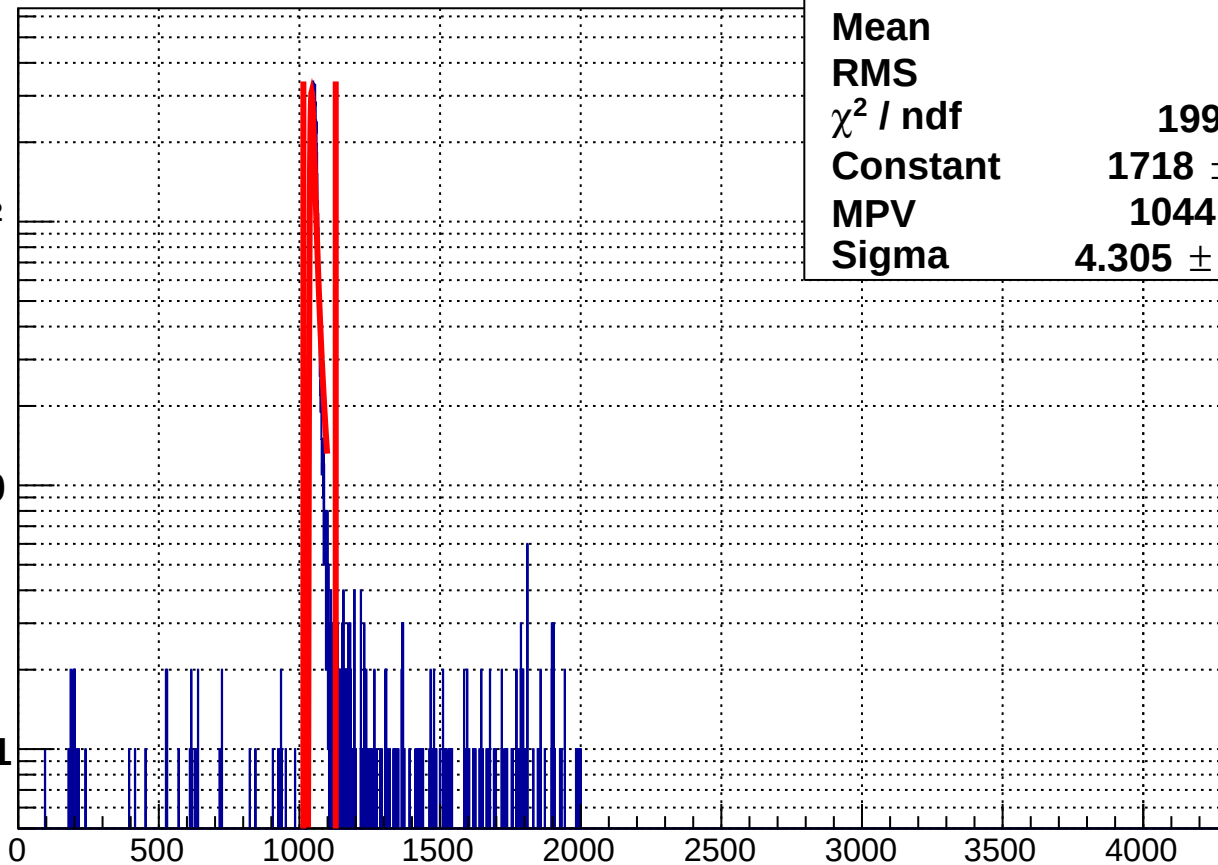
tray_le_75

count

10^2

10

1



Entries

9079

Mean

1060

RMS

95.05

χ^2 / ndf

1991 / 73

Constant

1718 ± 32.6

MPV

1044 ± 0.2

Sigma

4.305 ± 0.069

LE time (ns)

Run# 19103014

tray_le_76

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9039

Mean

1058

RMS

98.33

χ^2 / ndf

2063 / 72

Constant

1744 ± 35.4

MPV

1042 ± 0.2

Sigma

4.18 ± 0.07

Run# 19103014

tray_le_77

count

10^2

10

1

Entries	8167
Mean	1068
RMS	105.1
χ^2 / ndf	1941 / 78
Constant	1592 ± 33.0
MPV	1050 ± 0.2
Sigma	4.014 ± 0.071

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

Mon Apr 16 11:23:39 2018

Run# 19103014

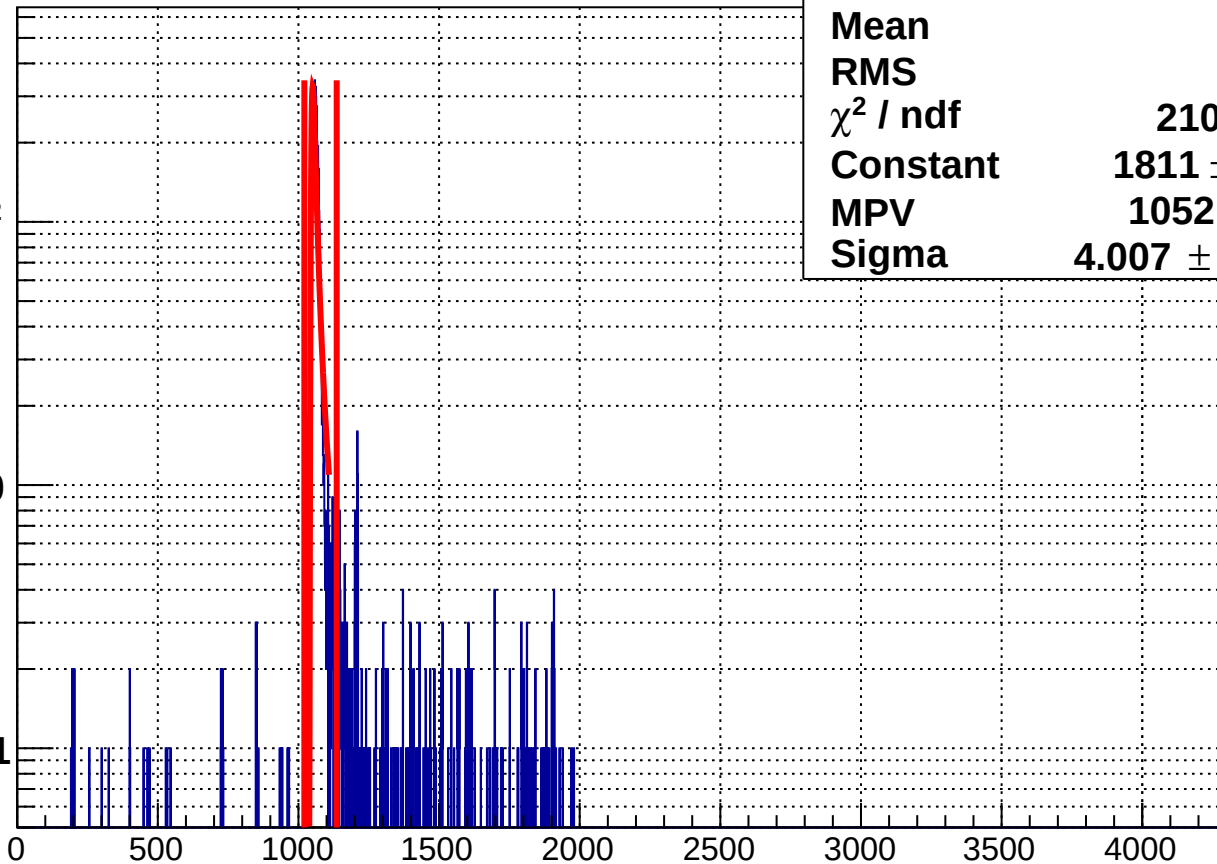
tray_le_78

count

10^2

10

1



Entries	9238
Mean	1070
RMS	93.21
χ^2 / ndf	2105 / 76
Constant	1811 ± 33.0
MPV	1052 ± 0.2
Sigma	4.007 ± 0.059

LE time (ns)

Run# 19103014

tray_le_79

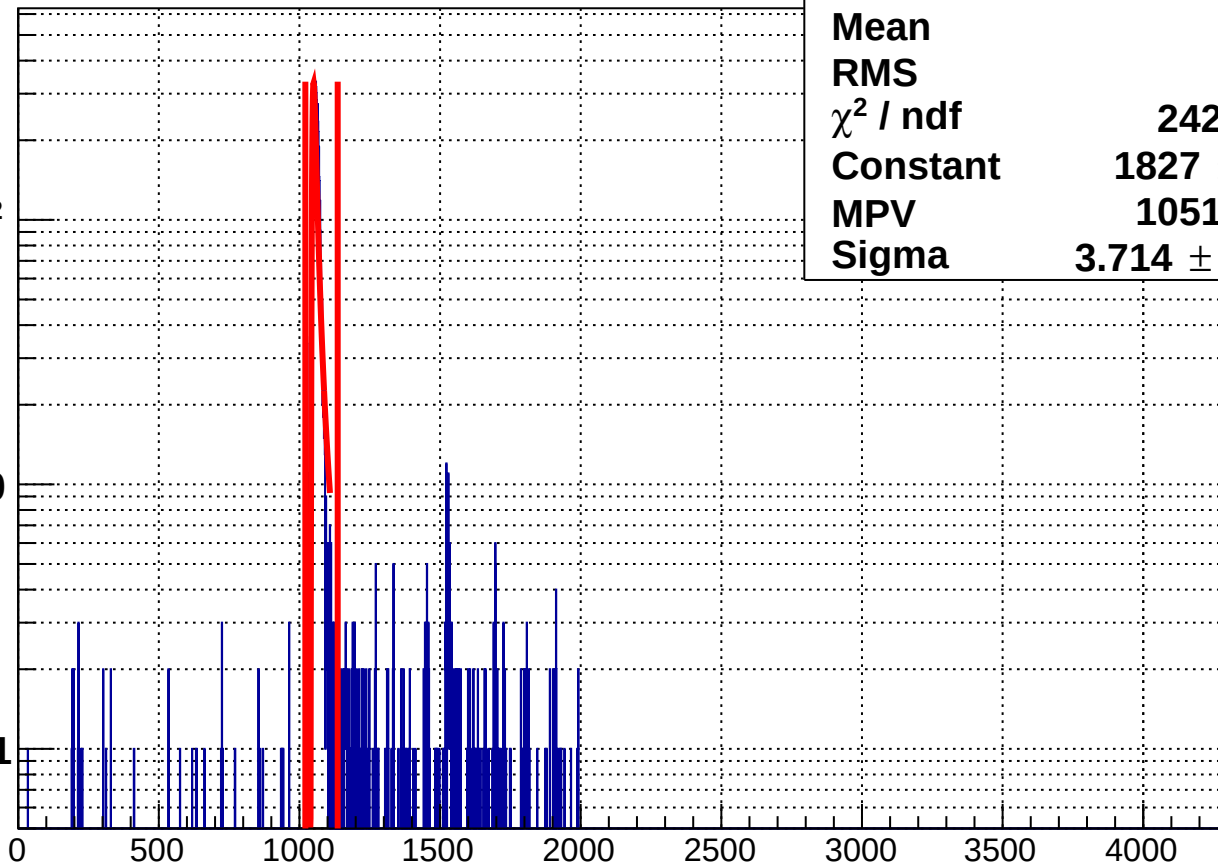
count

10^2

10

1

Entries	9161
Mean	1075
RMS	108
χ^2 / ndf	2420 / 75
Constant	1827 ± 34.1
MPV	1051 ± 0.2
Sigma	3.714 ± 0.056



LE time (ns)

Run# 19103014

tray_le_80

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9360

Mean

1067

RMS

105.7

χ^2 / nfd

2110 / 79

Constant

1905 ± 35.2

MPV

1050 ± 0.2

Sigma

3.912 ± 0.060

Run# 19103014

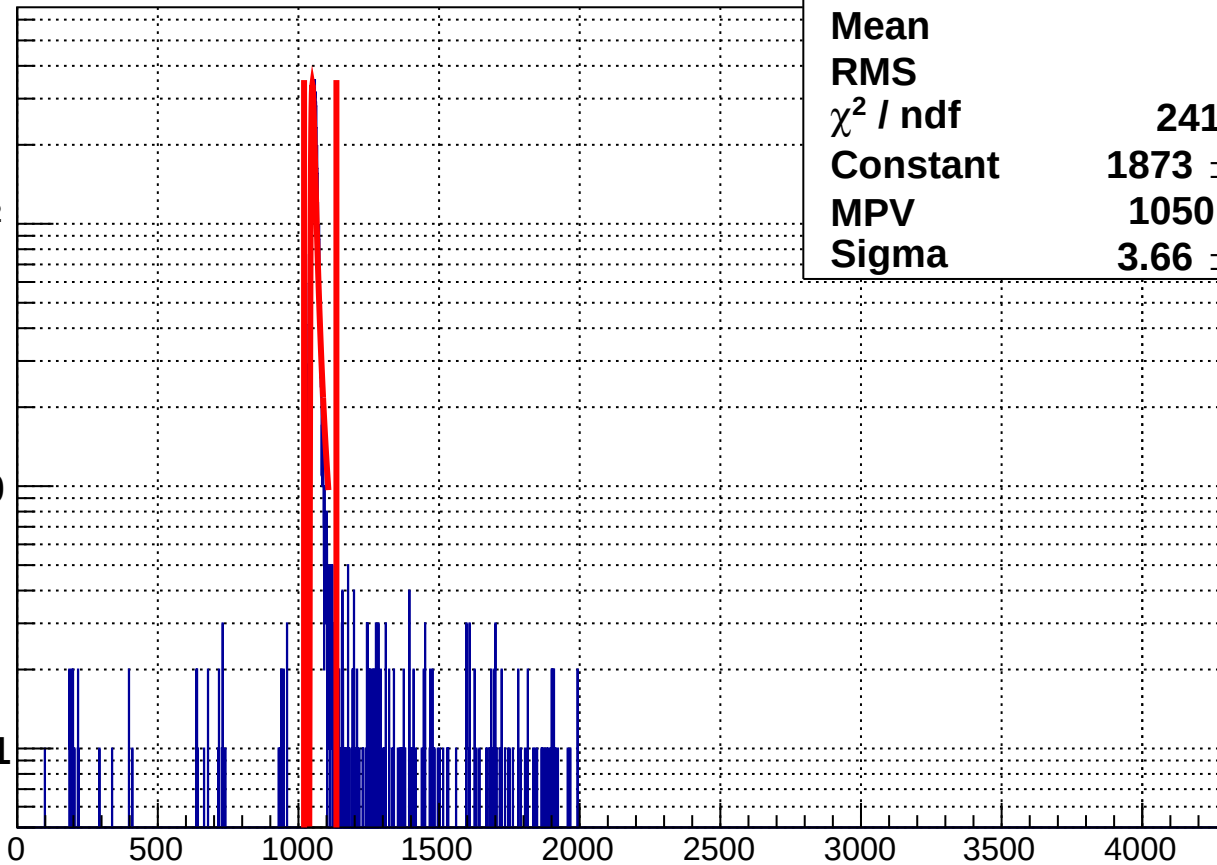
tray_le_81

count

10^2

10

1



Entries	9093
Mean	1064
RMS	88.9
χ^2 / ndf	2417 / 75
Constant	1873 ± 38.7
MPV	1050 ± 0.2
Sigma	3.66 ± 0.07

LE time (ns)

Run# 19103014

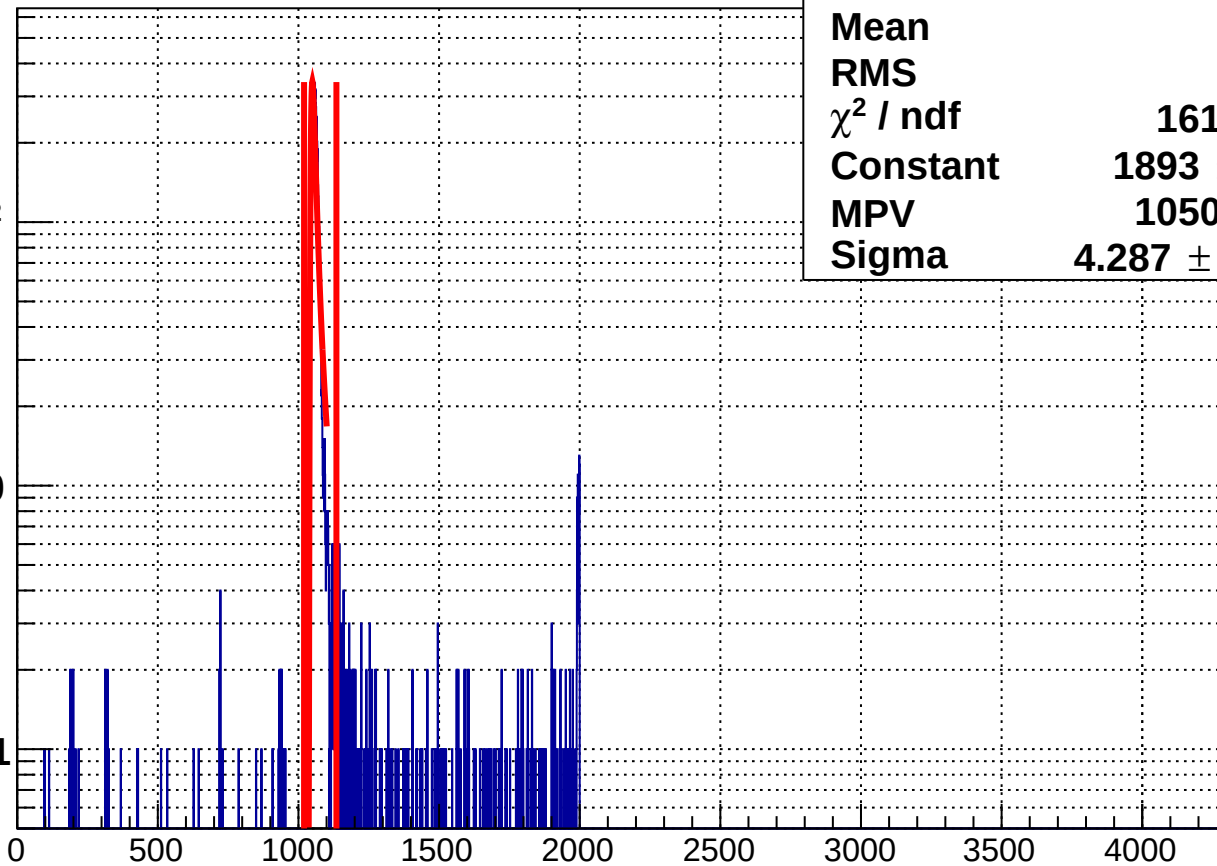
tray_le_82

count

10^2

10

1



LE time (ns)

Mon Apr 16 11:23:39 2018

Run# 19103014

tray_le_83

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9227

Mean

1068

RMS

102.6

χ^2 / ndf

1795 / 70

Constant

1834 ± 34.4

MPV

1050 ± 0.2

Sigma

4.248 ± 0.068

Run# 19103014

tray_le_84

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9223

Mean

1065

RMS

99.56

χ^2 / nfd

2217 / 79

Constant

1871 ± 35.6

MPV

1050 ± 0.2

Sigma

3.862 ± 0.061

Run# 19103014

tray_le_85

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9283

Mean

1060

RMS

103.9

χ^2 / nfd

2484 / 78

Constant

1854 ± 36.2

MPV

1041 ± 0.2

Sigma

3.751 ± 0.061

Run# 19103014

tray_le_86

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9263

Mean

1057

RMS

100.5

χ^2 / ndf

1877 / 76

Constant

1868 ± 34.1

MPV

1042 ± 0.2

Sigma

4.105 ± 0.062

Mon Apr 16 11:23:39 2018

Run# 19103014

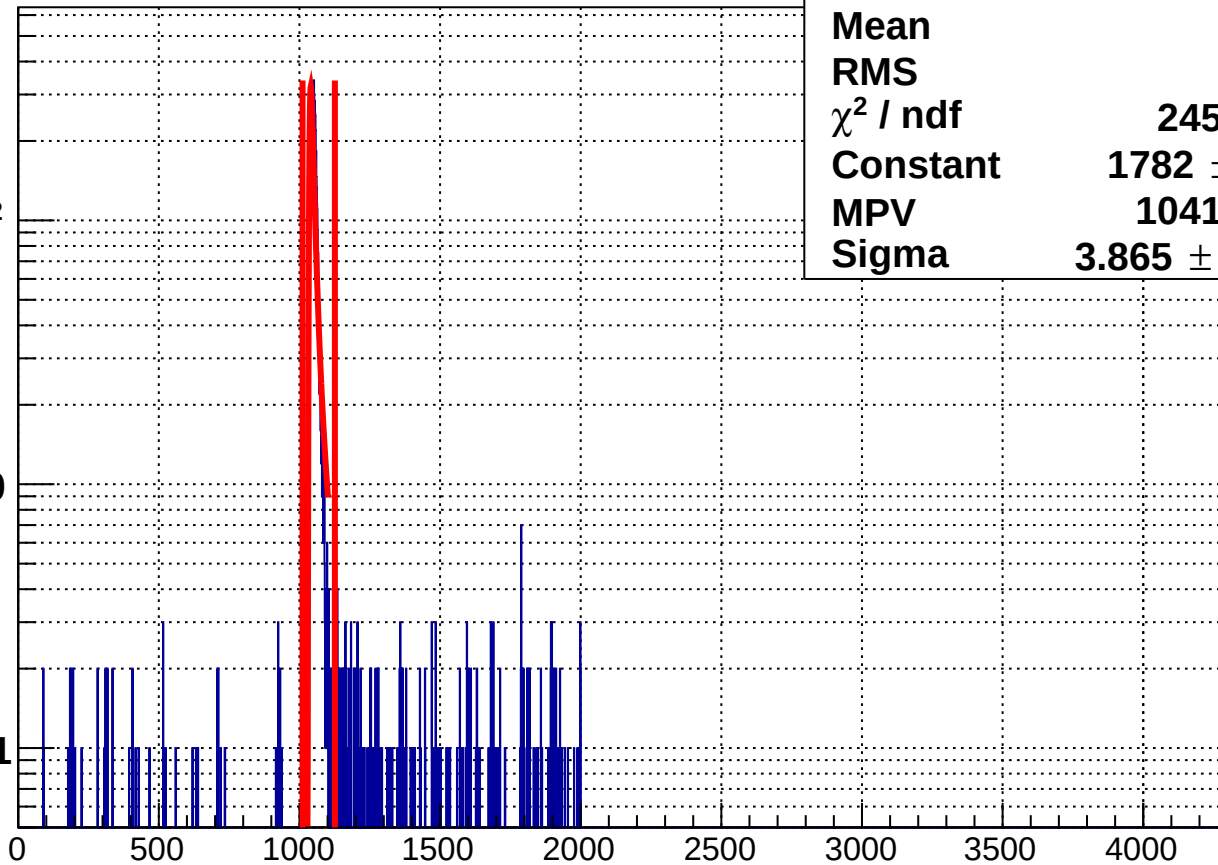
tray_le_87

count

10^2

10

1



Entries	9215
Mean	1058
RMS	104.8
χ^2 / ndf	2452 / 80
Constant	1782 ± 32.9
MPV	1041 ± 0.2
Sigma	3.865 ± 0.057

LE time (ns)

Run# 19103014

tray_le_88

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9206

Mean

1059

RMS

92.5

χ^2 / ndf

2210 / 77

Constant

1744 ± 31.5

MPV

1041 ± 0.2

Sigma

4.164 ± 0.061

Run# 19103014

tray_le_89

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9219

Mean

1057

RMS

84.54

χ^2 / ndf

2052 / 78

Constant

1801 ± 32.6

MPV

1041 ± 0.2

Sigma

4.159 ± 0.061

Mon Apr 16 11:23:39 2018

Run# 19103014

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9496

Mean

1053

RMS

101.6

χ^2 / ndf

2302 / 75

Constant

1747 ± 33.4

MPV

1034 ± 0.2

Sigma

4.262 ± 0.069

tray_le_90

Mon Apr 16 11:23:39 2018

Run# 19103014

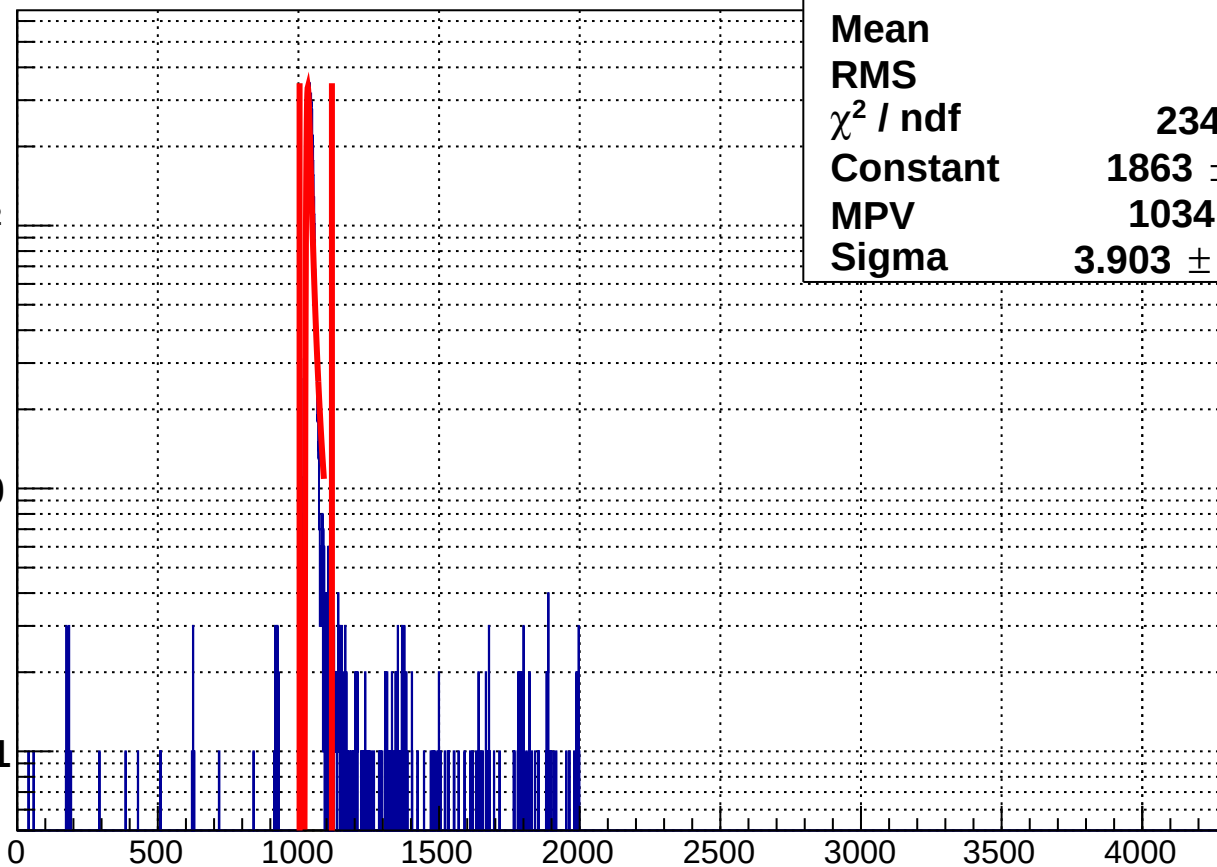
tray_le_91

count

10^2

10

1



LE time (ns)

Mon Apr 16 11:23:40 2018

Run# 19103014

tray_le_92

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9431

Mean

1052

RMS

103.4

χ^2 / nfd

2443 / 77

Constant

1844 ± 37.1

MPV

1035 ± 0.2

Sigma

3.886 ± 0.067

Mon Apr 16 11:23:40 2018

Run# 19103014

tray_le_93

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

6909

Mean

1053

RMS

99.71

χ^2 / ndf

1633 / 72

Constant

1449 ± 30.2

MPV

1035 ± 0.2

Sigma

3.714 ± 0.062

Mon Apr 16 11:23:40 2018

Run# 19103014

tray_le_94

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9505

Mean

1053

RMS

95.97

χ^2 / ndf

2550 / 78

Constant

1901 ± 35.7

MPV

1035 ± 0.2

Sigma

3.756 ± 0.058

Mon Apr 16 11:23:40 2018

Run# 19103014

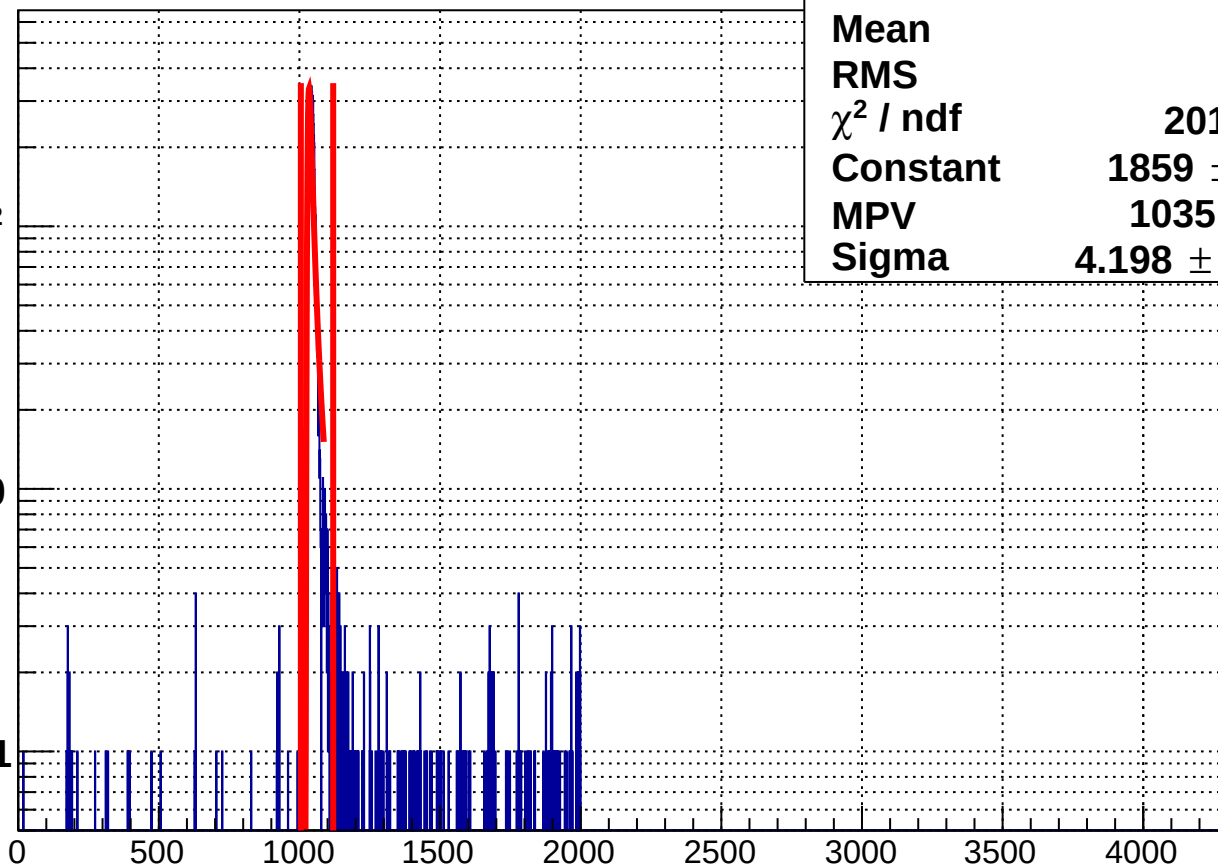
tray_le_95

count

10^2

10

1



Entries	9452
Mean	1051
RMS	96.05
χ^2 / ndf	2016 / 71
Constant	1859 ± 35.3
MPV	1035 ± 0.2
Sigma	4.198 ± 0.069

Run# 19103014

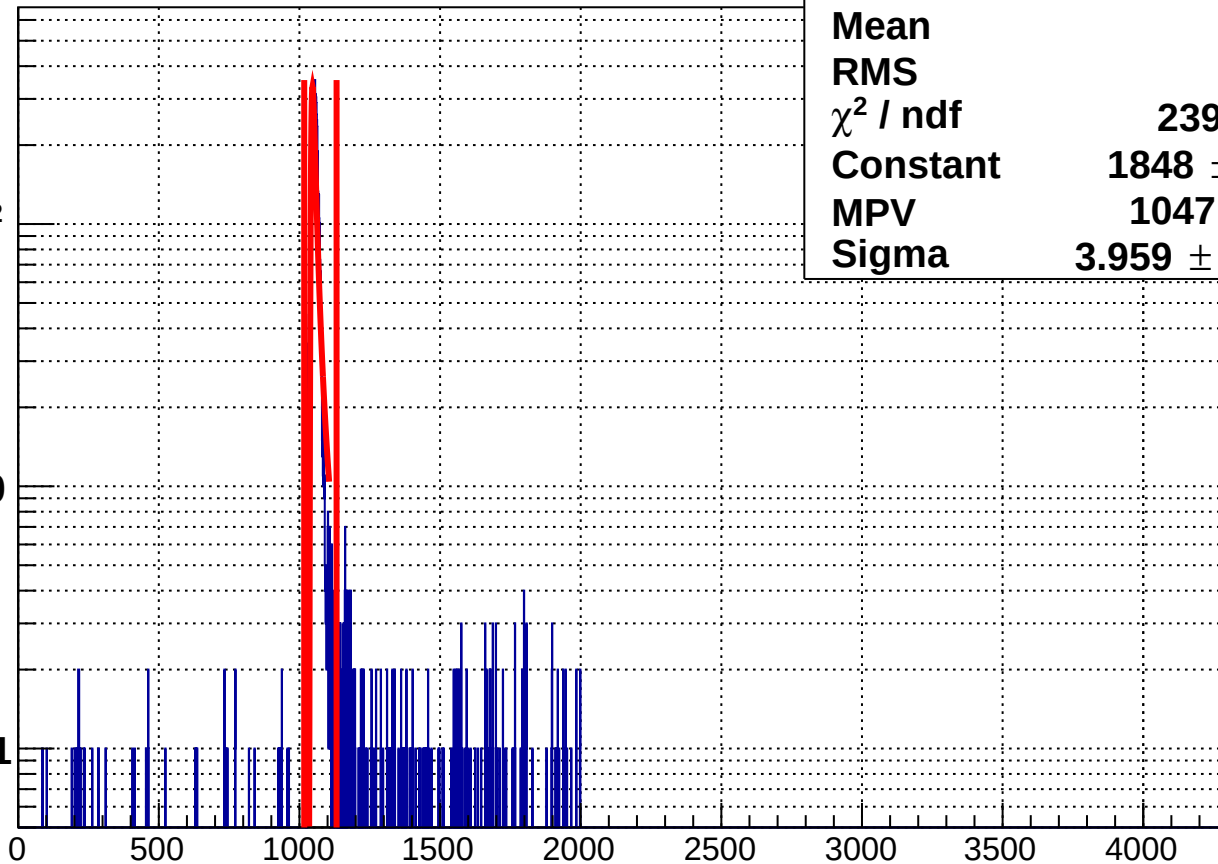
tray_le_96

count

10^2

10

1



Entries	9551
Mean	1063
RMS	95.01
χ^2 / ndf	2392 / 77
Constant	1848 ± 34.3
MPV	1047 ± 0.2
Sigma	3.959 ± 0.060

LE time (ns)

Run# 19103014

tray_le_97

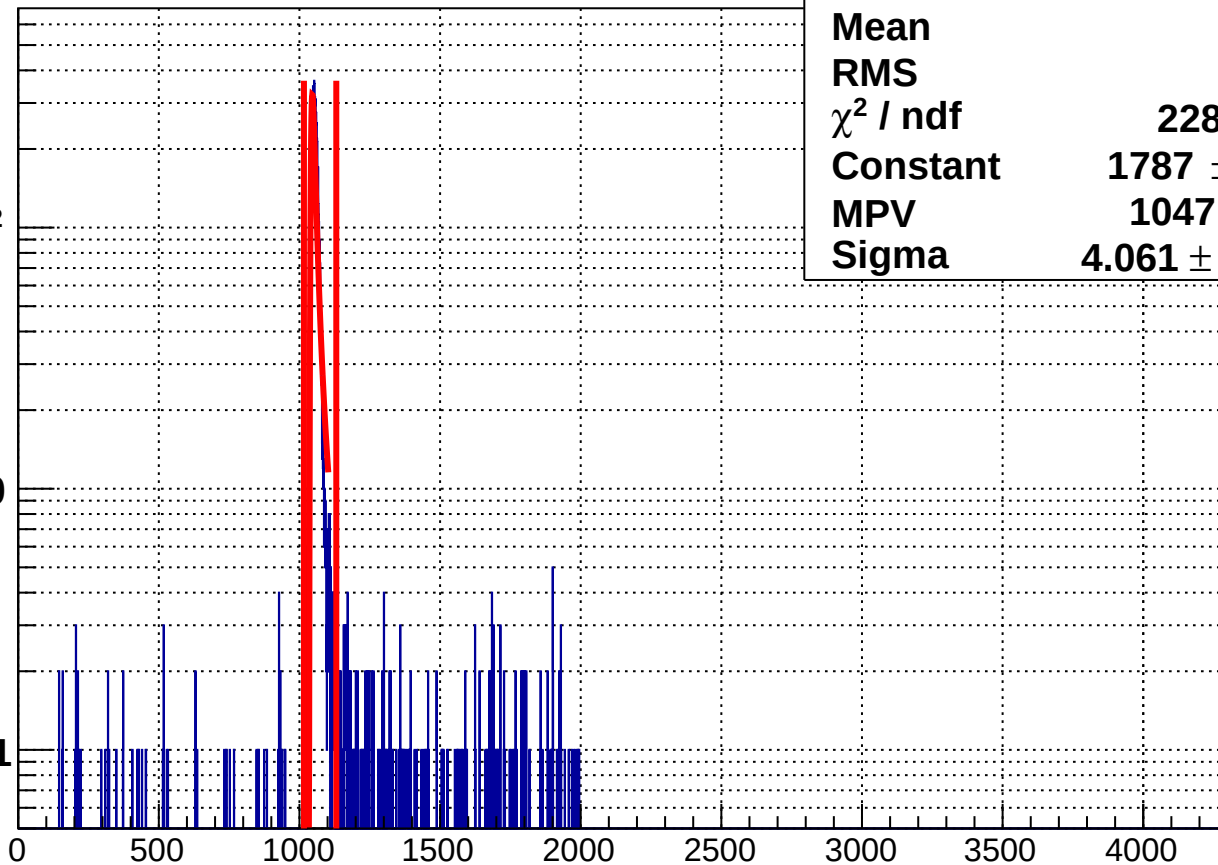
count

10^2

10

1

Entries	9344
Mean	1063
RMS	98.48
χ^2 / ndf	2282 / 75
Constant	1787 ± 32.0
MPV	1047 ± 0.2
Sigma	4.061 ± 0.059



LE time (ns)

Run# 19103014

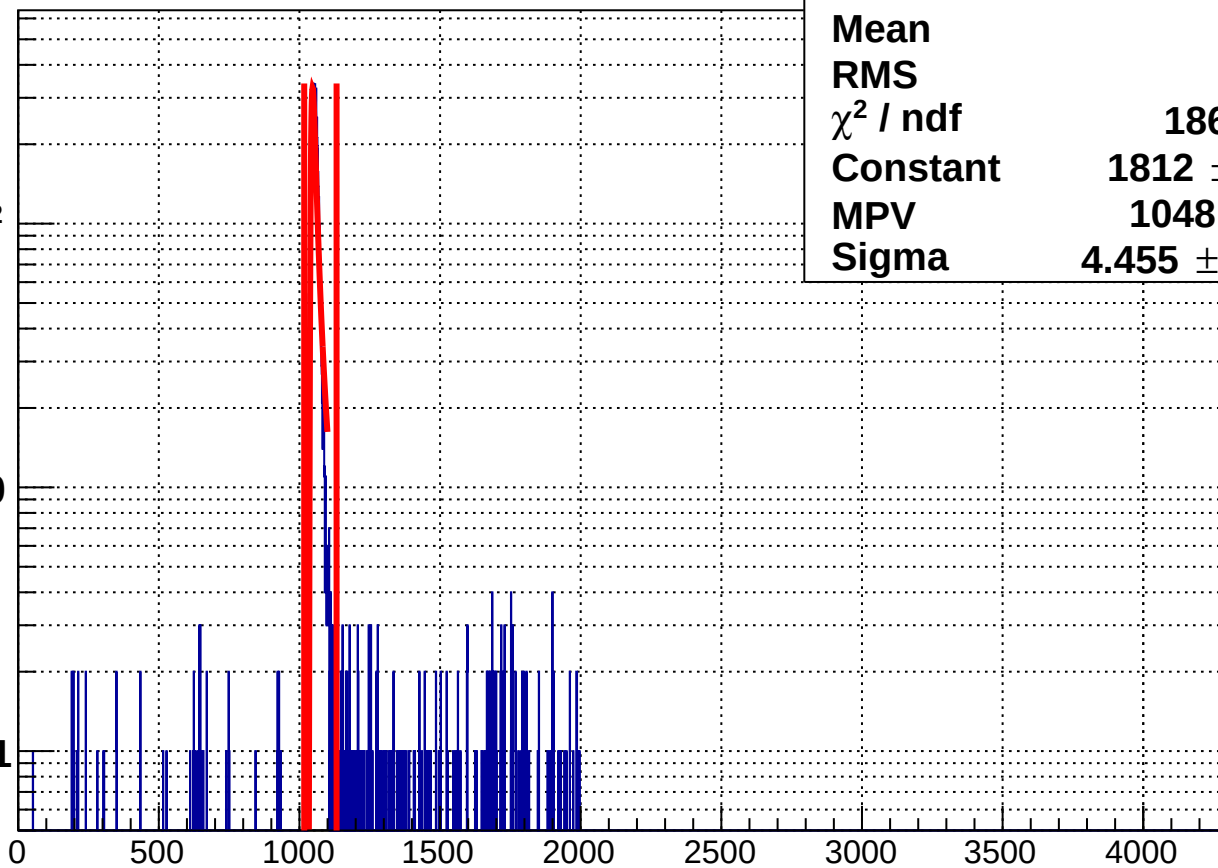
tray_le_98

count

10^2

10

1



Entries

9525

Mean

1065

RMS

99.74

χ^2 / ndf

1862 / 71

Constant

1812 ± 33.4

MPV

1048 ± 0.2

Sigma

4.455 ± 0.071

LE time (ns)

Mon Apr 16 11:23:40 2018

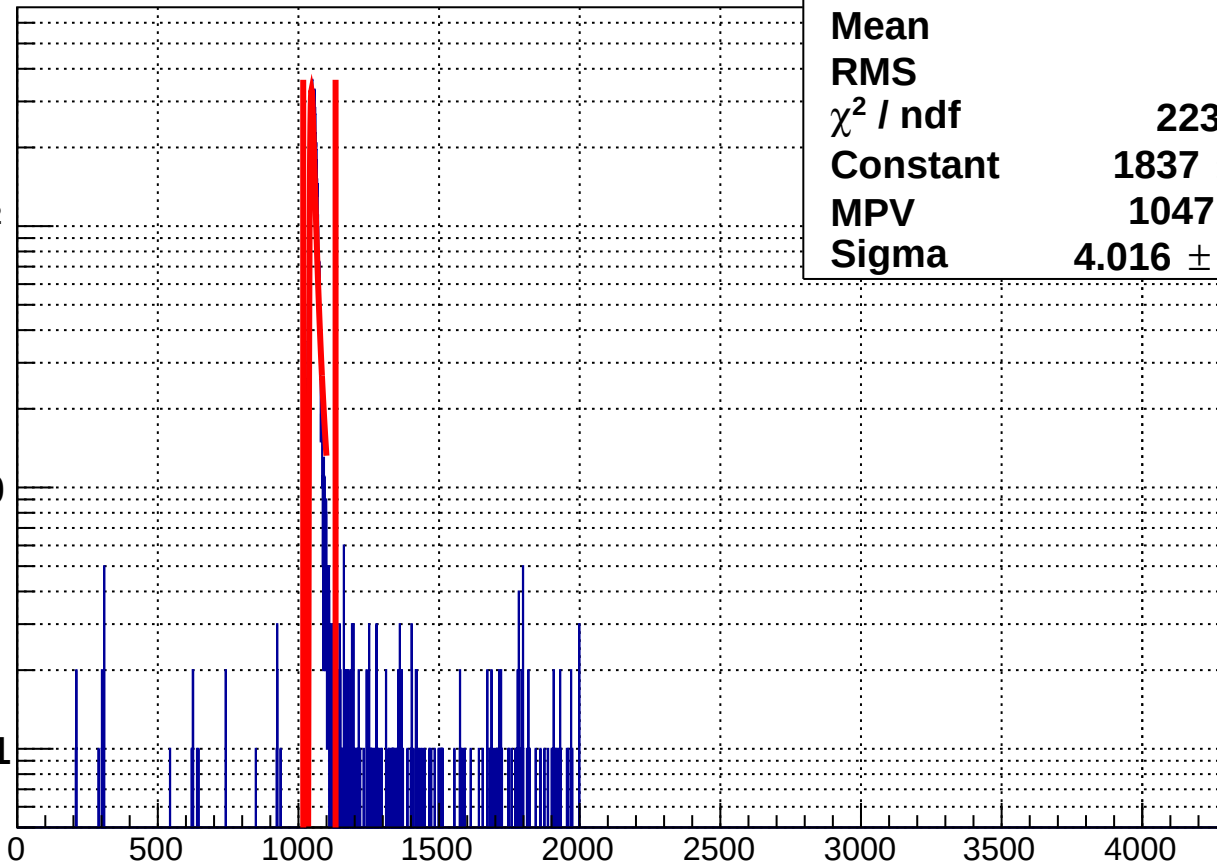
Run# 19103014

count

10^2

10

1



tray_le_99

Entries	9295
Mean	1063
RMS	86.31
χ^2 / nfd	2231 / 70
Constant	1837 ± 38.1
MPV	1047 ± 0.2
Sigma	4.016 ± 0.074

LE time (ns)

Mon Apr 16 11:23:40 2018

Run# 19103014

tray_le_100

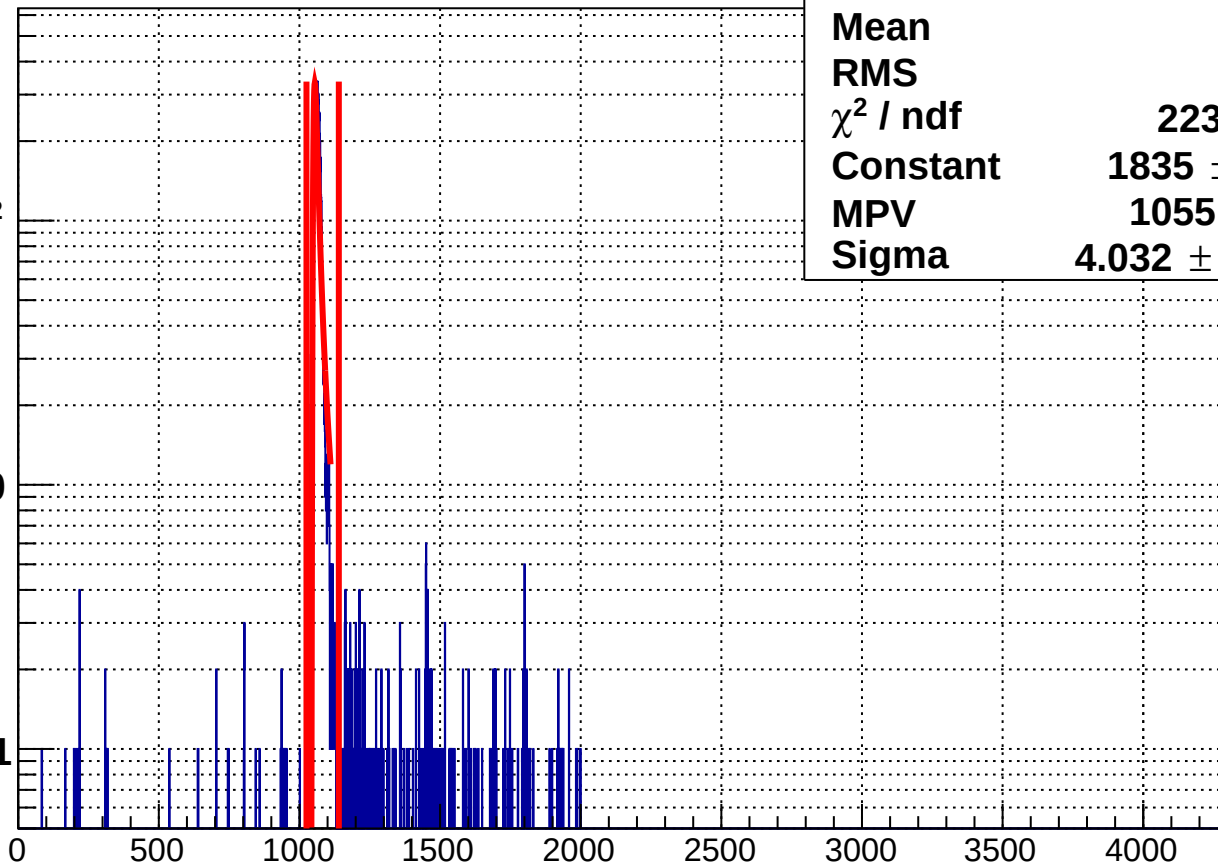
count

10^2

10

1

Entries	9385
Mean	1073
RMS	90.02
χ^2 / ndf	2231 / 73
Constant	1835 ± 31.9
MPV	1055 ± 0.2
Sigma	4.032 ± 0.056

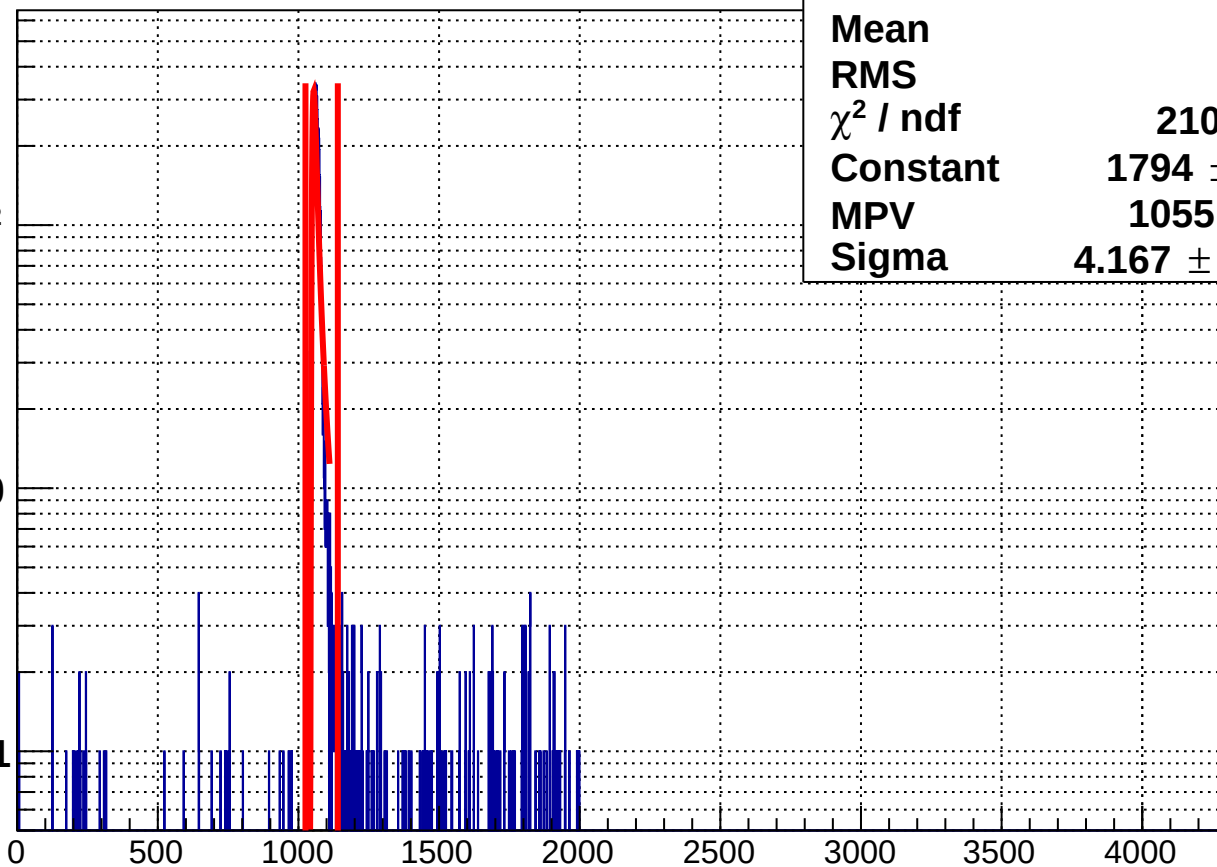


LE time (ns)

Run# 19103014**tray_le_101****count** 10^2

10

1



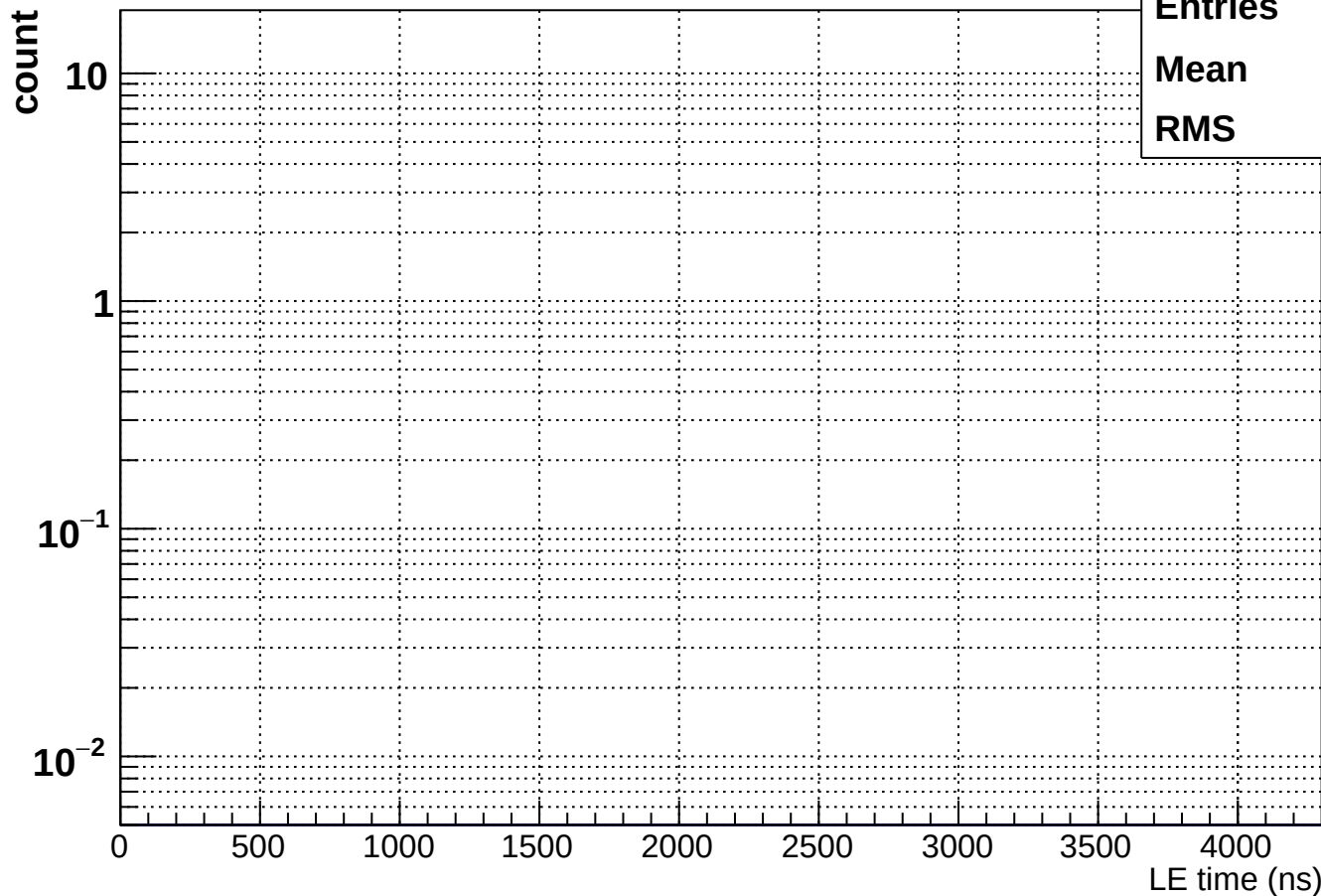
LE time (ns)

Mon Apr 16 11:23:40 2018

Run# 19103014

tray_le_102

Entries	0
Mean	0
RMS	0



Run# 19103014

tray_le_103

count

10^2

10

1

Entries	9646
Mean	1073
RMS	88.59
χ^2 / ndf	2036 / 73
Constant	1808 ± 30.7
MPV	1055 ± 0.2
Sigma	4.451 ± 0.061

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Mon Apr 16 11:23:40 2018

Run# 19103014

tray_le_104

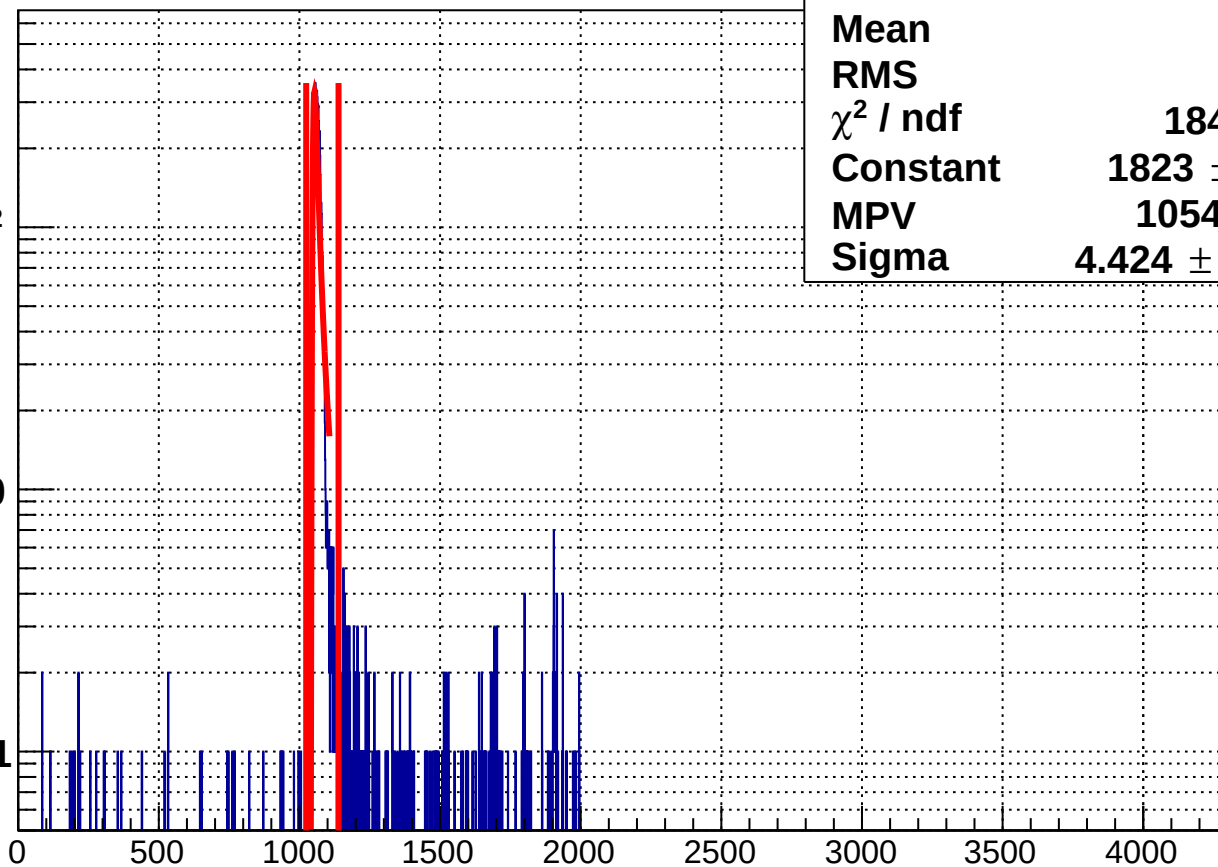
count

10^2

10

1

Entries	9519
Mean	1073
RMS	98.13
χ^2 / nfd	1843 / 71
Constant	1823 ± 30.4
MPV	1054 ± 0.1
Sigma	4.424 ± 0.059



LE time (ns)

Mon Apr 16 11:23:40 2018

Run# 19103014

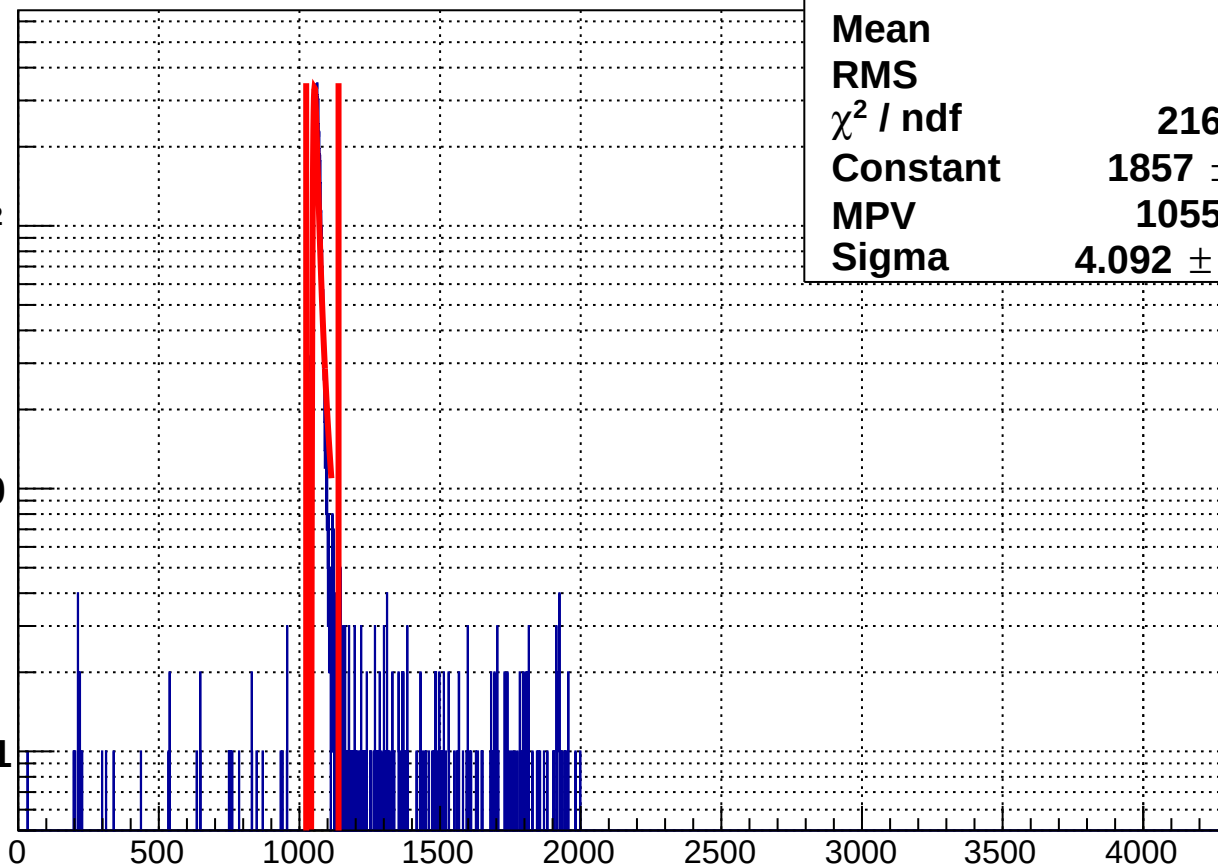
tray_le_105

count

10^2

10

1



LE time (ns)

Run# 19103014

tray_le_106

count

10^2

10

1

Entries	9550
Mean	1073
RMS	91.12
χ^2 / ndf	1880 / 78
Constant	1896 ± 32.5
MPV	1055 ± 0.1
Sigma	4.208 ± 0.058

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Mon Apr 16 11:23:40 2018

Run# 19103014

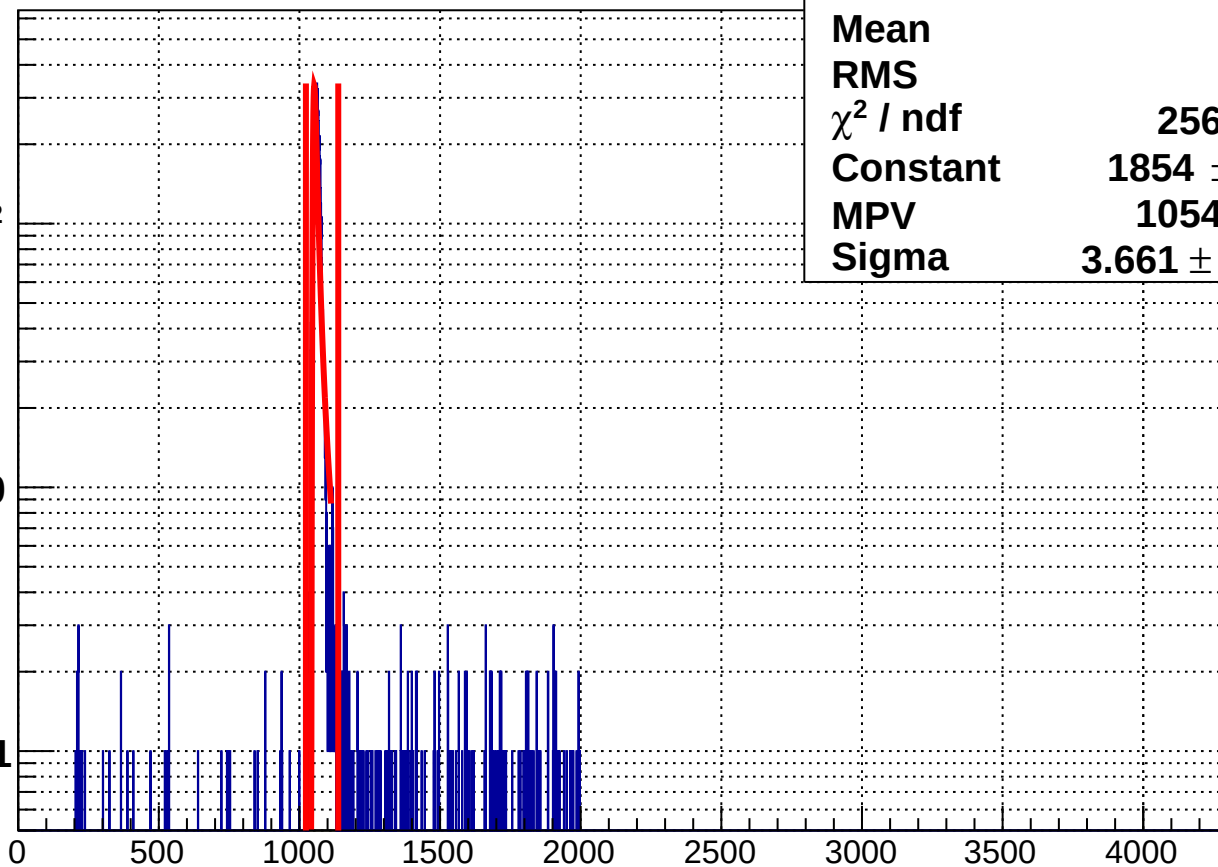
tray_le_107

count

10^2

10

1



Entries	9210
Mean	1070
RMS	95.62
χ^2 / ndf	2565 / 78
Constant	1854 ± 32.8
MPV	1054 ± 0.1
Sigma	3.661 ± 0.049

LE time (ns)

Run# 19103014

tray_le_108

count

10^2

10

1

Entries	7001
Mean	1073
RMS	98.21
χ^2 / ndf	1494 / 71
Constant	1412 ± 28.2
MPV	1055 ± 0.2
Sigma	4.022 ± 0.064

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Mon Apr 16 11:23:40 2018

Run# 19103014

tray_le_109

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

9280

Mean

1072

RMS

90.29

χ^2 / ndf

2042 / 76

Constant

1768 ± 30.3

MPV

1054 ± 0.1

Sigma

4.254 ± 0.057

Run# 19103014

tray_le_110

count

10^2

10

1

Entries	9607
Mean	1073
RMS	89.41
χ^2 / ndf	1930 / 73
Constant	1770 ± 32.6
MPV	1055 ± 0.2
Sigma	4.485 ± 0.070

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Mon Apr 16 11:23:40 2018

Run# 19103014

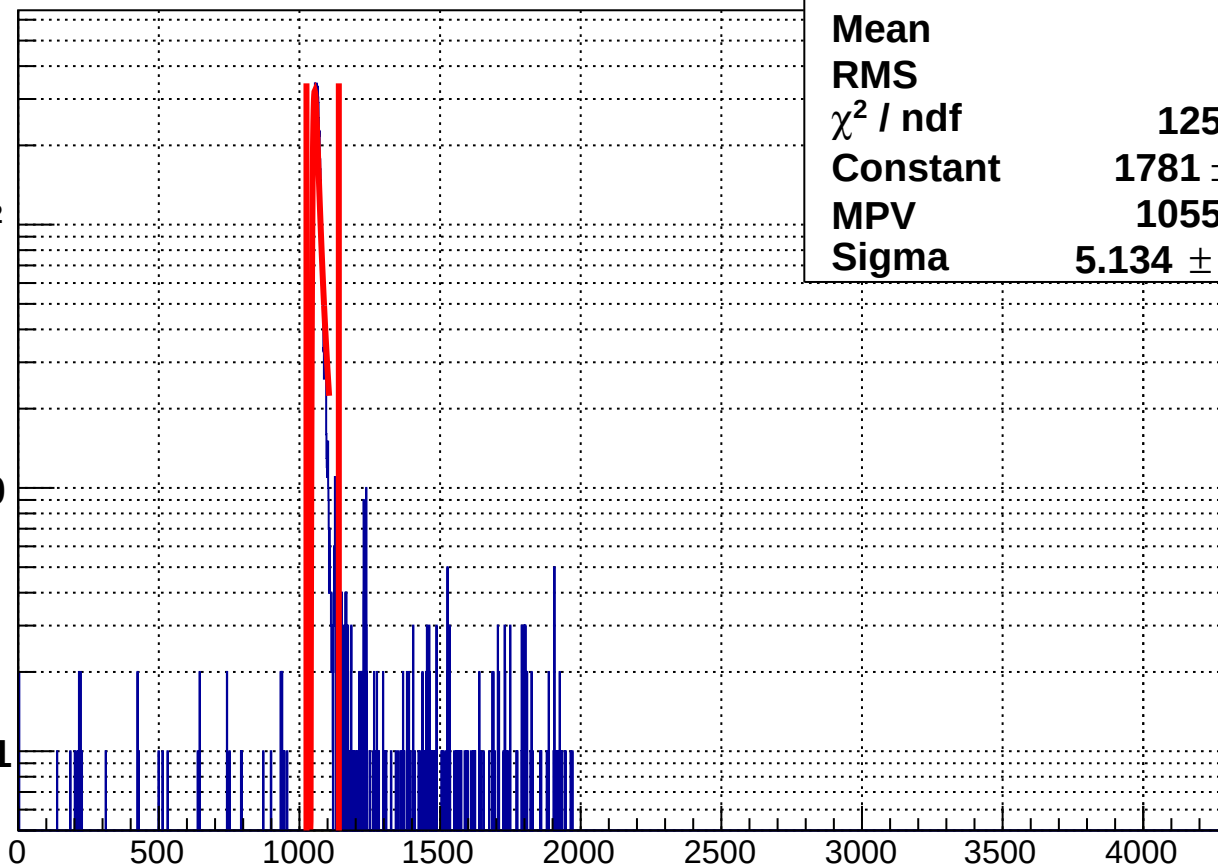
tray_le_111

count

10^2

10

1



Entries

9803

Mean

1074

RMS

93.51

χ^2 / ndf

1255 / 70

Constant

1781 ± 28.9

MPV

1055 ± 0.1

Sigma

5.134 ± 0.070

LE time (ns)

Mon Apr 16 11:23:40 2018

Run# 19103014

tray_le_112

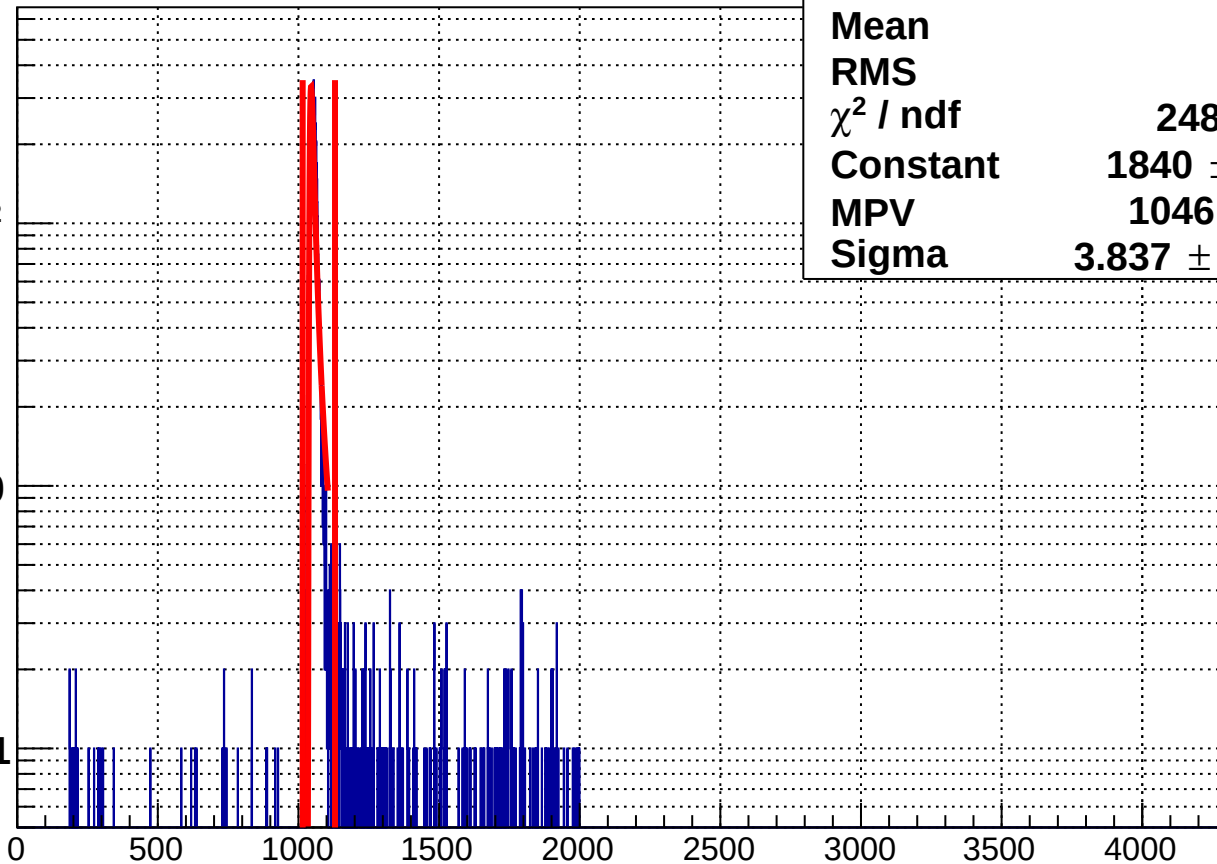
count

10^2

10

1

Entries	9389
Mean	1064
RMS	97.77
χ^2 / ndf	2488 / 77
Constant	1840 ± 33.5
MPV	1046 ± 0.2
Sigma	3.837 ± 0.055



Run# 19103014

tray_le_113

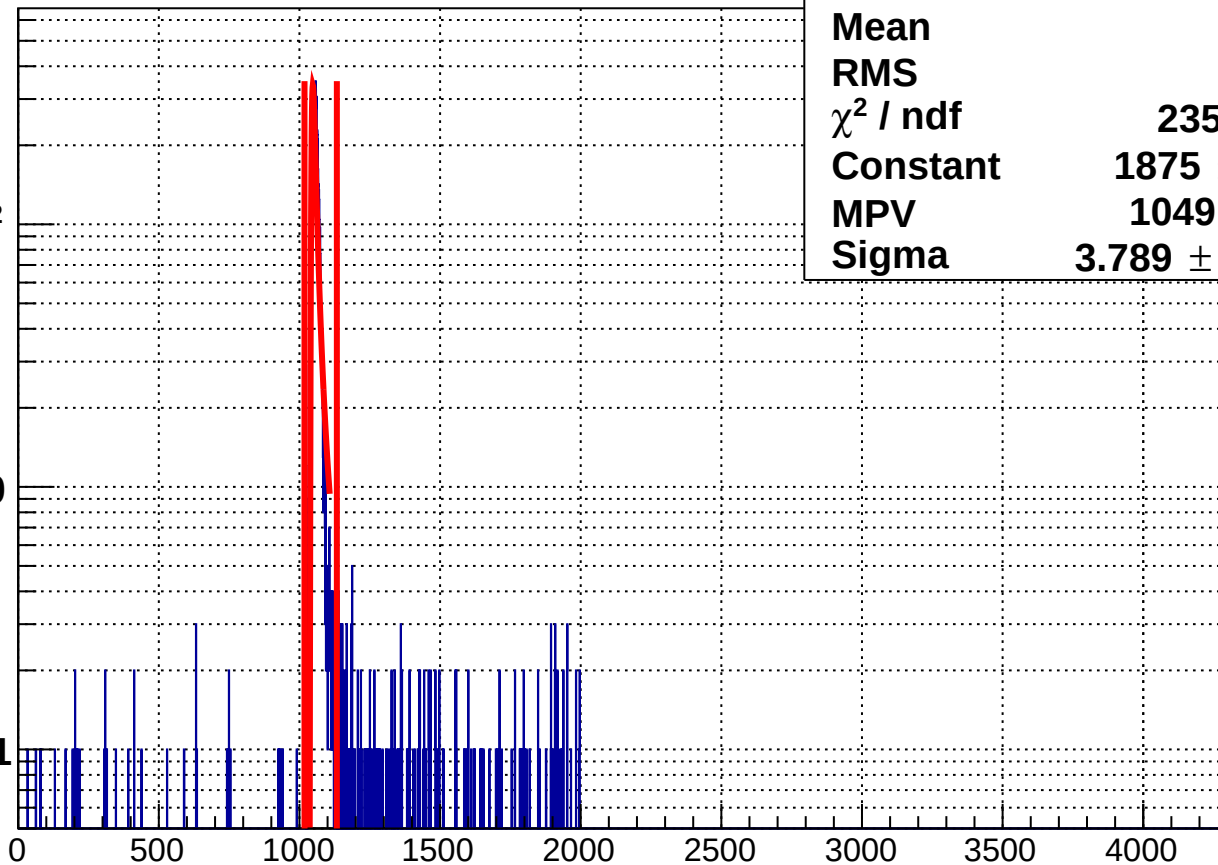
count

10^2

10

1

Entries	9259
Mean	1064
RMS	89.39
χ^2 / ndf	2352 / 78
Constant	1875 ± 35.1
MPV	1049 ± 0.2
Sigma	3.789 ± 0.058



LE time (ns)

Run# 19103014

tray_le_114

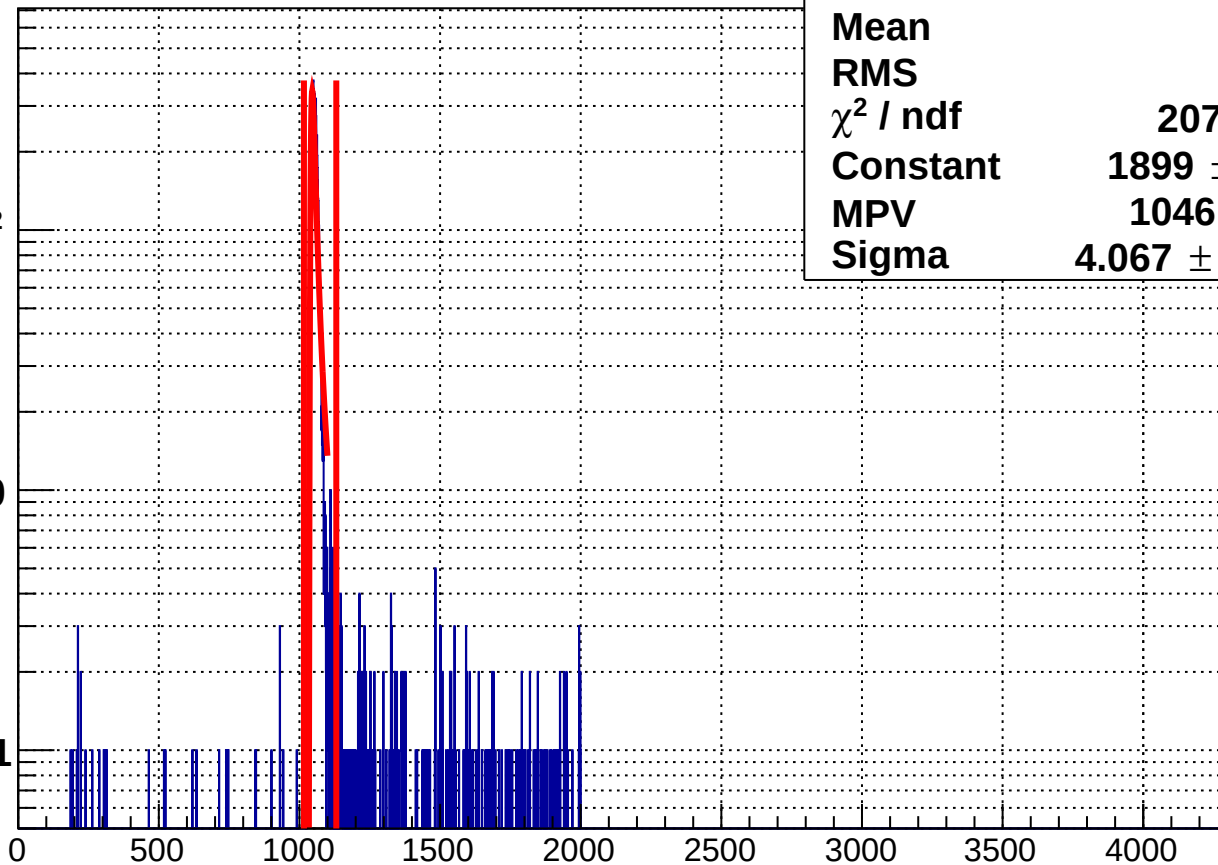
count

10^2

10

1

Entries	9470
Mean	1064
RMS	95.87
χ^2 / ndf	2076 / 72
Constant	1899 ± 35.3
MPV	1046 ± 0.2
Sigma	4.067 ± 0.064



LE time (ns)

Run# 19103014

tray_le_115

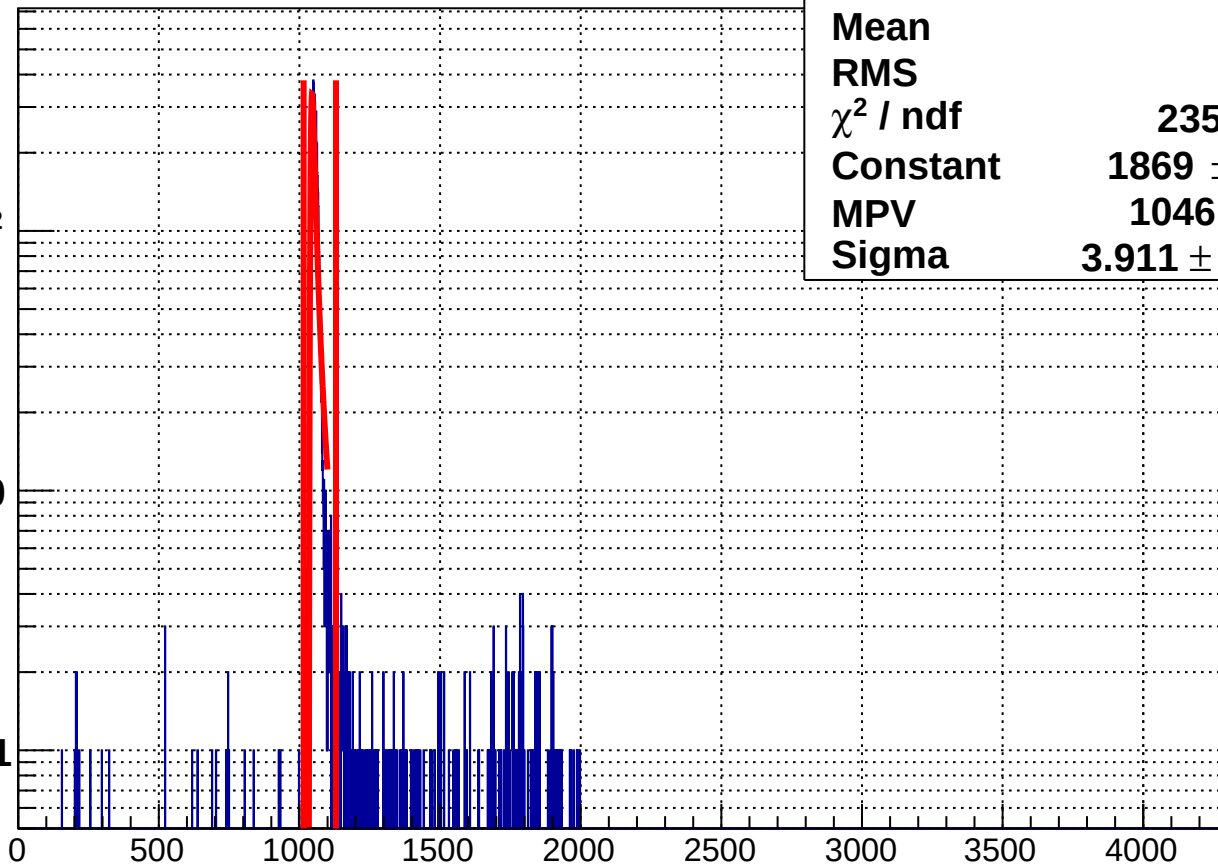
count

10^2

10

1

Entries	9437
Mean	1064
RMS	95.25
χ^2 / ndf	2356 / 72
Constant	1869 ± 35.5
MPV	1046 ± 0.2
Sigma	3.911 ± 0.062



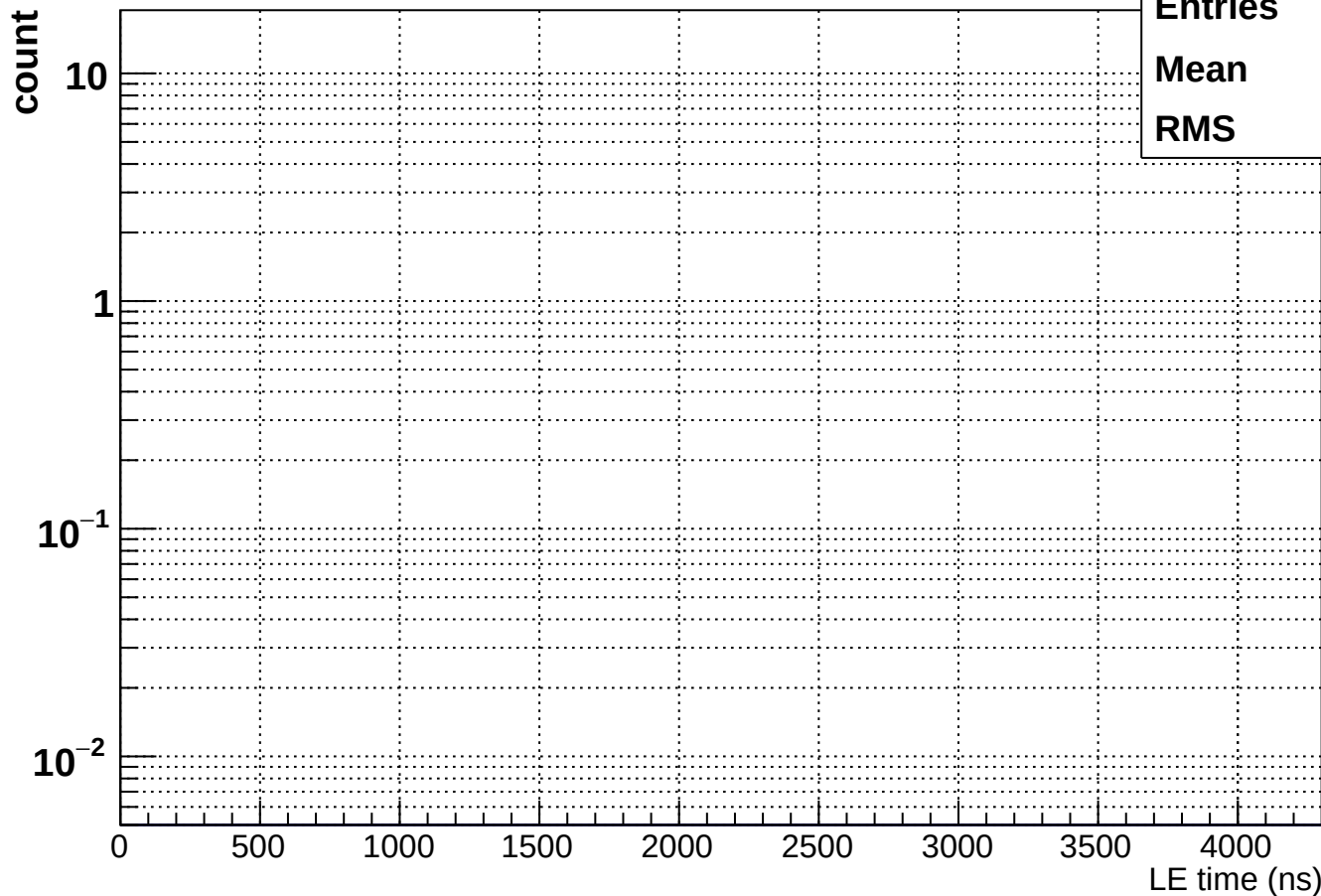
LE time (ns)

Mon Apr 16 11:23:41 2018

Run# 19103014

tray_le_116

Entries	0
Mean	0
RMS	0



Run# 19103014

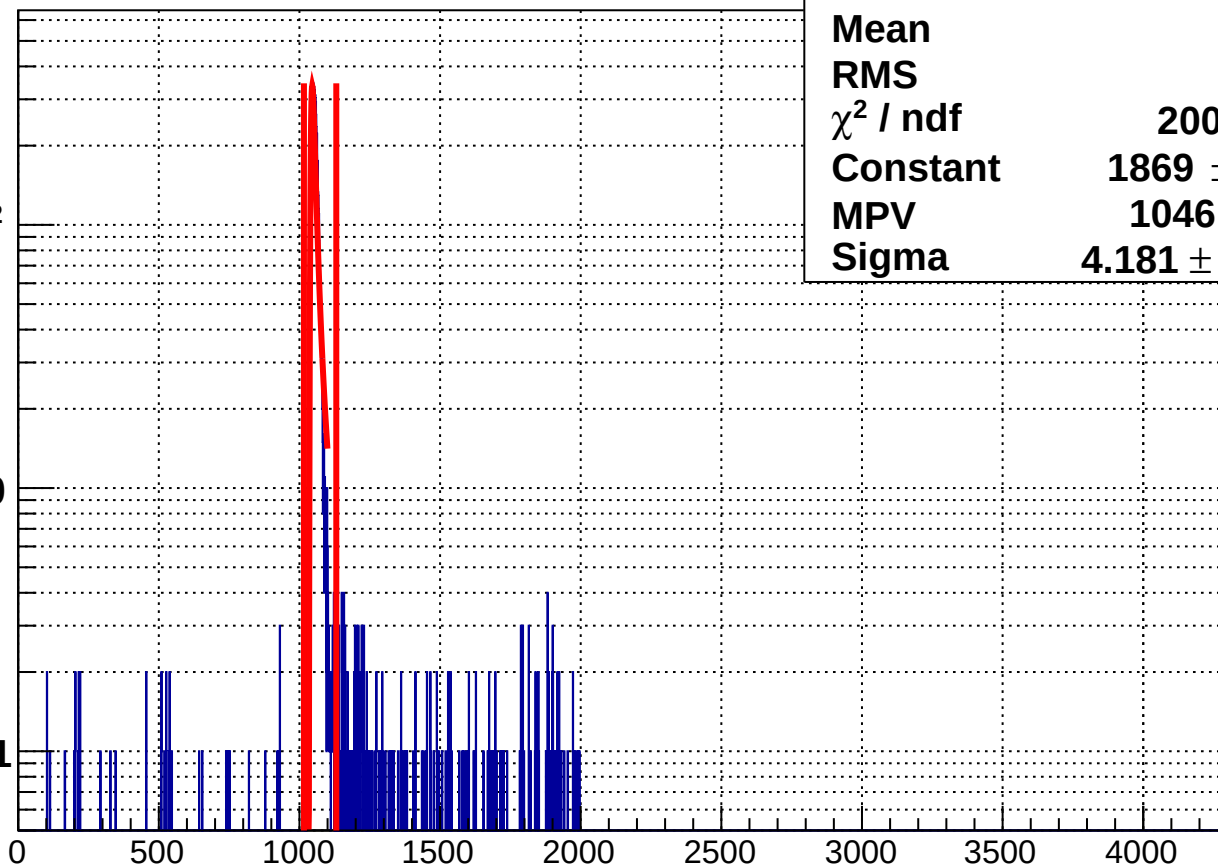
tray_le_117

count

10^2

10

1



Entries

9487

Mean

1063

RMS

99.26

χ^2 / ndf

2004 / 73

Constant

1869 ± 33.6

MPV

1046 ± 0.2

Sigma

4.181 ± 0.062

LE time (ns)

Run# 19103014

tray_le_118

count

10^2

10

1

Entries

7335

Mean

1053

RMS

93.28

χ^2 / ndf

1615 / 74

Constant

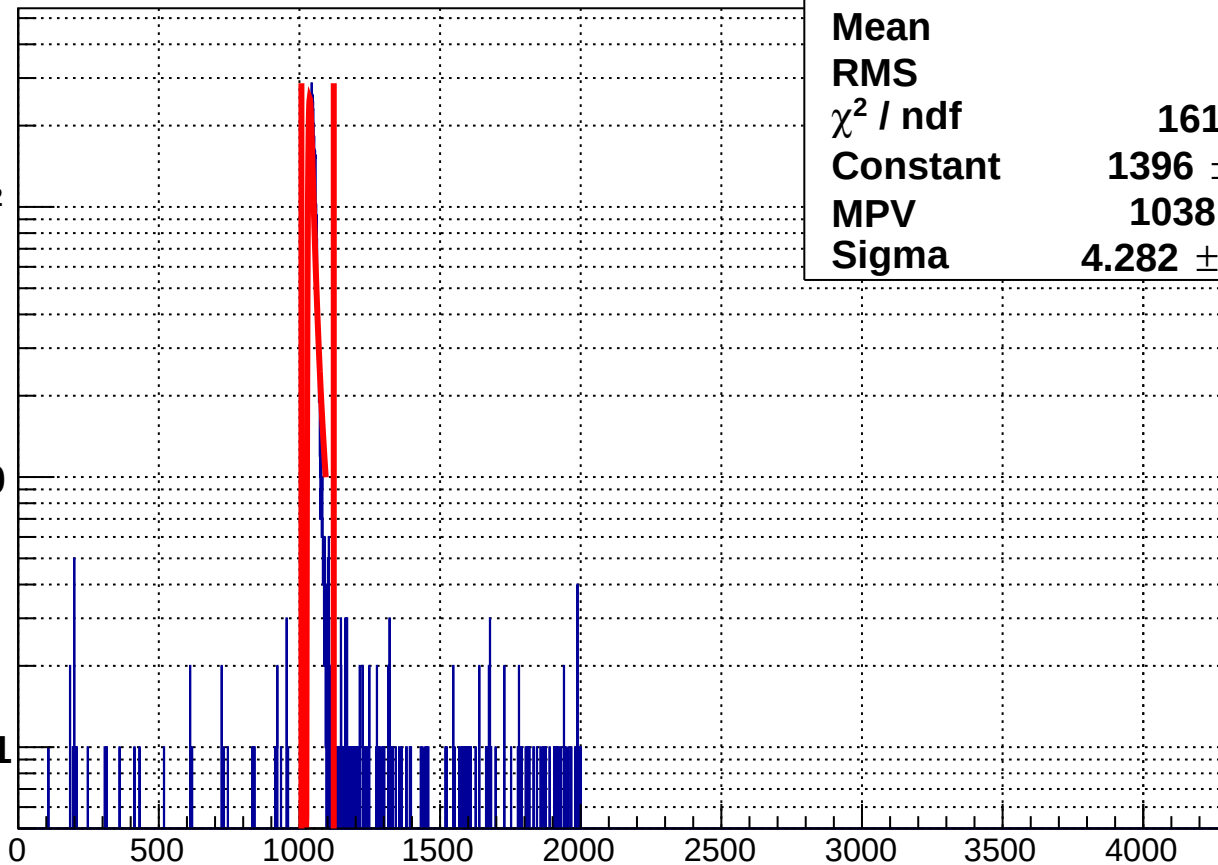
1396 ± 28.2

MPV

1038 ± 0.2

Sigma

4.282 ± 0.071



Mon Apr 16 11:23:41 2018

Run# 19103014

tray_le_119

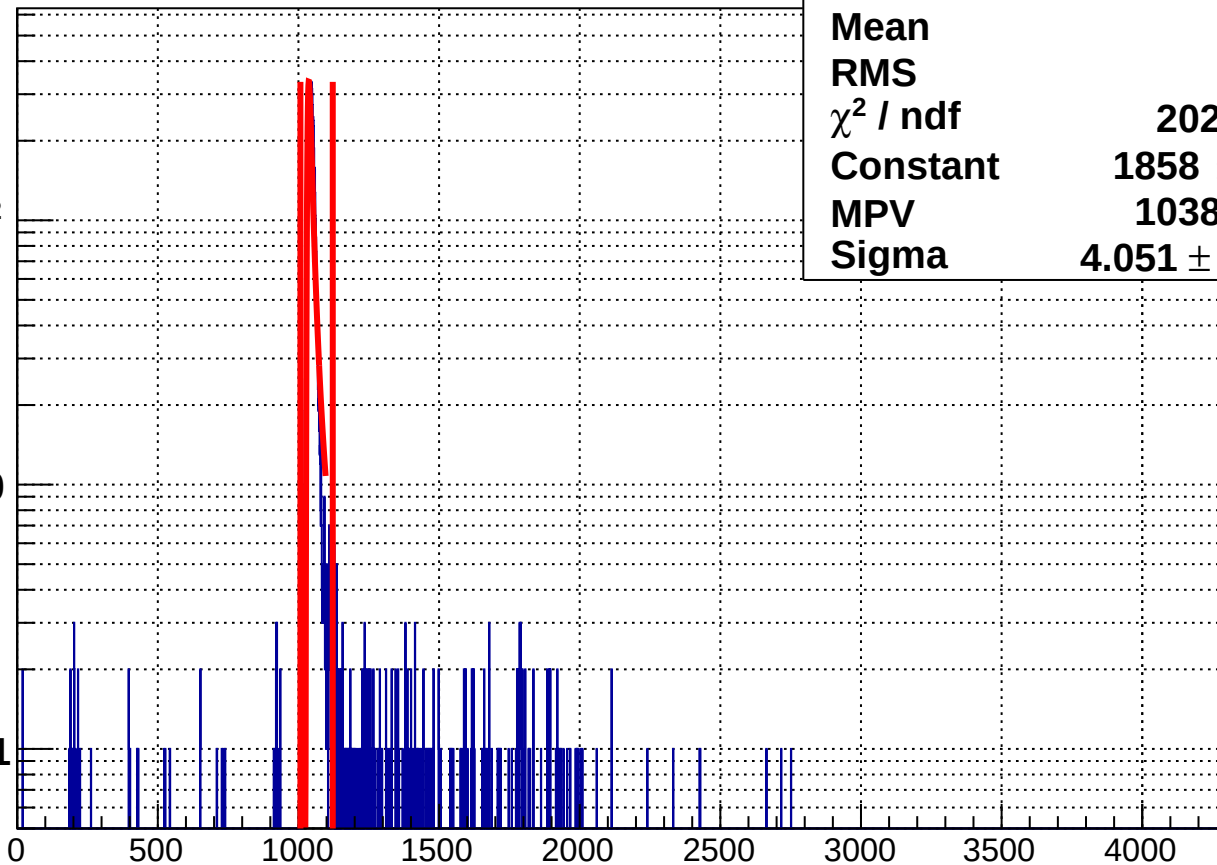
count

10^2

10

1

Entries	9366
Mean	1057
RMS	107.1
χ^2 / ndf	2022 / 78
Constant	1858 ± 32.1
MPV	1038 ± 0.1
Sigma	4.051 ± 0.055



LE time (ns)

Run# 19103014

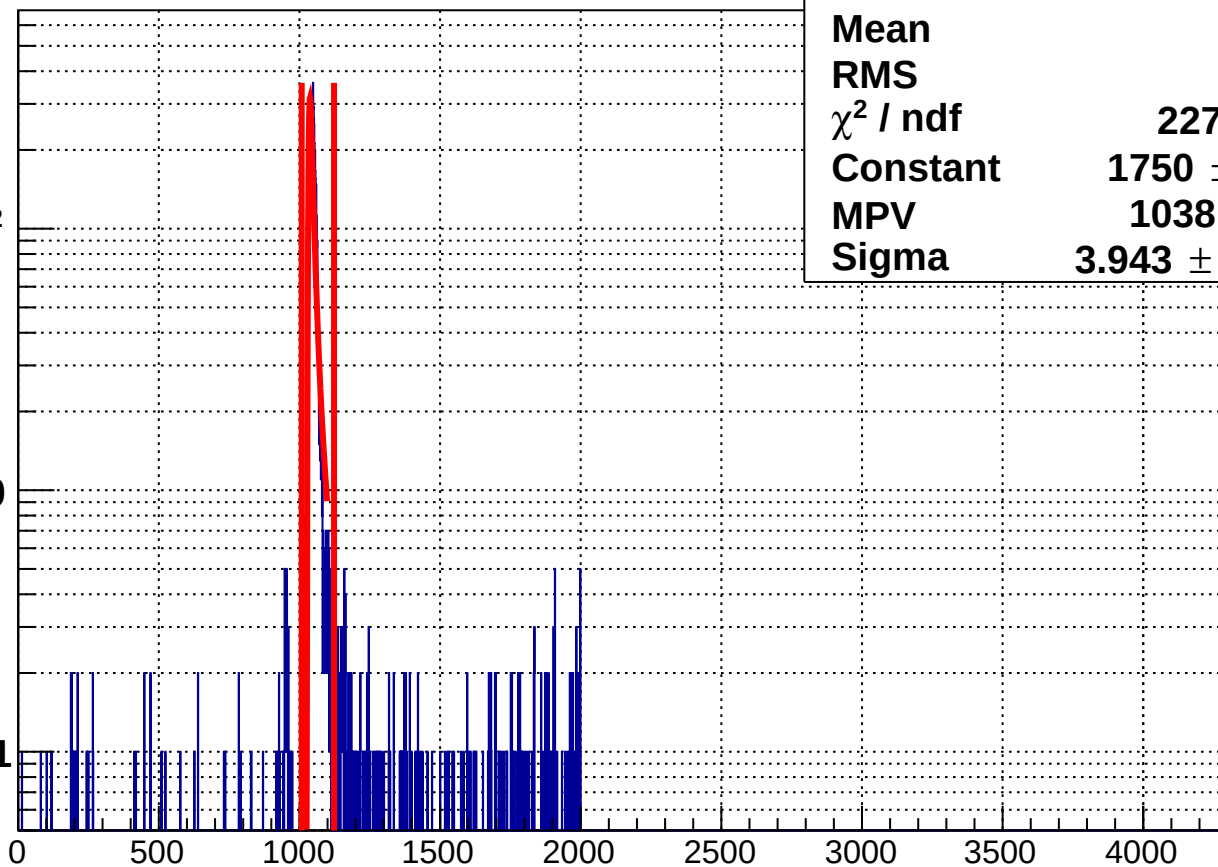
tray_le_120

count

10^2

10

1

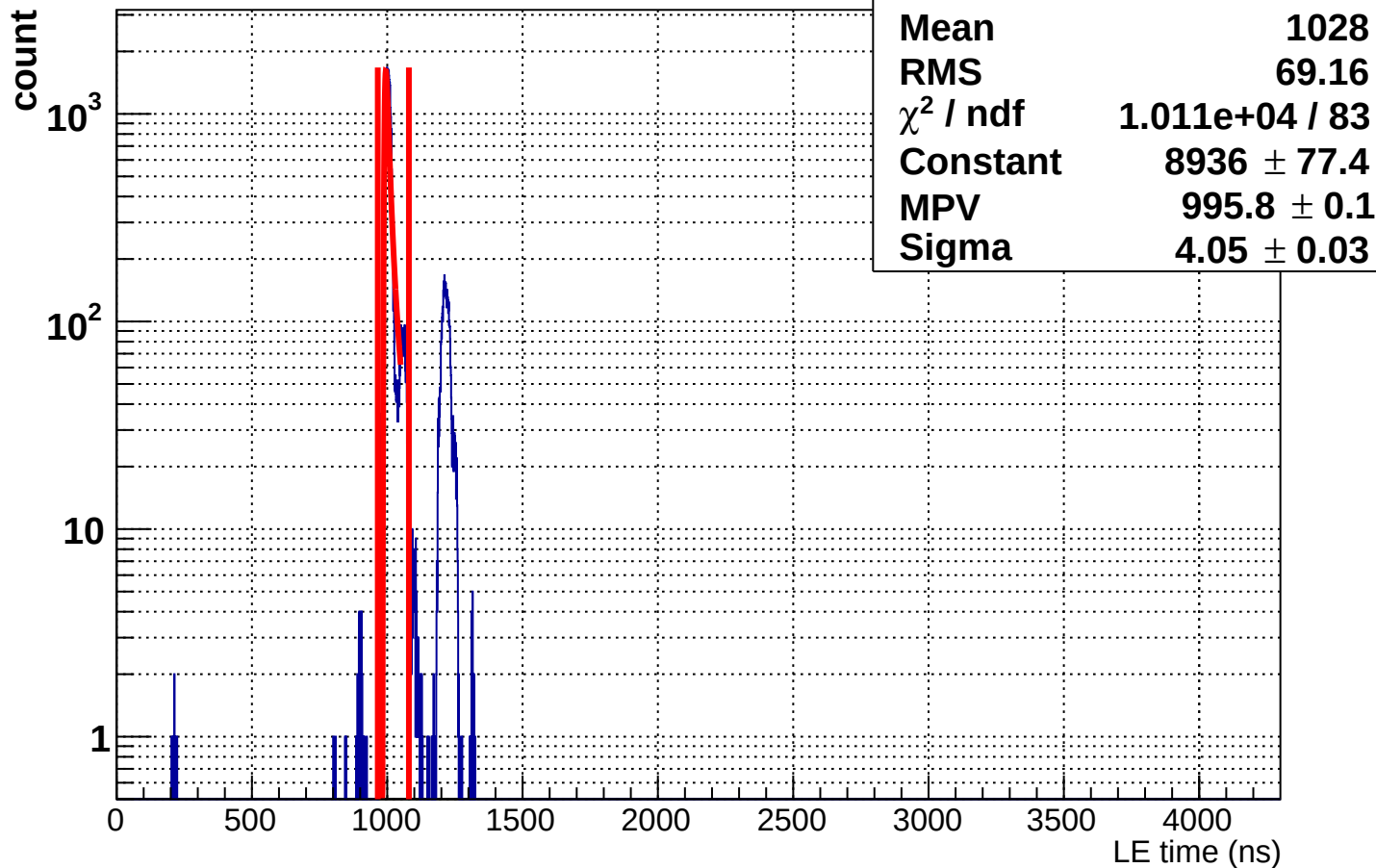


Entries	9099
Mean	1058
RMS	114.9
χ^2 / ndf	2272 / 78
Constant	1750 ± 31.8
MPV	1038 ± 0.2
Sigma	3.943 ± 0.056

LE time (ns)

Run# 19103014

tray_le_121



Mon Apr 16 11:23:41 2018

Run# 19103014

tray_le_122

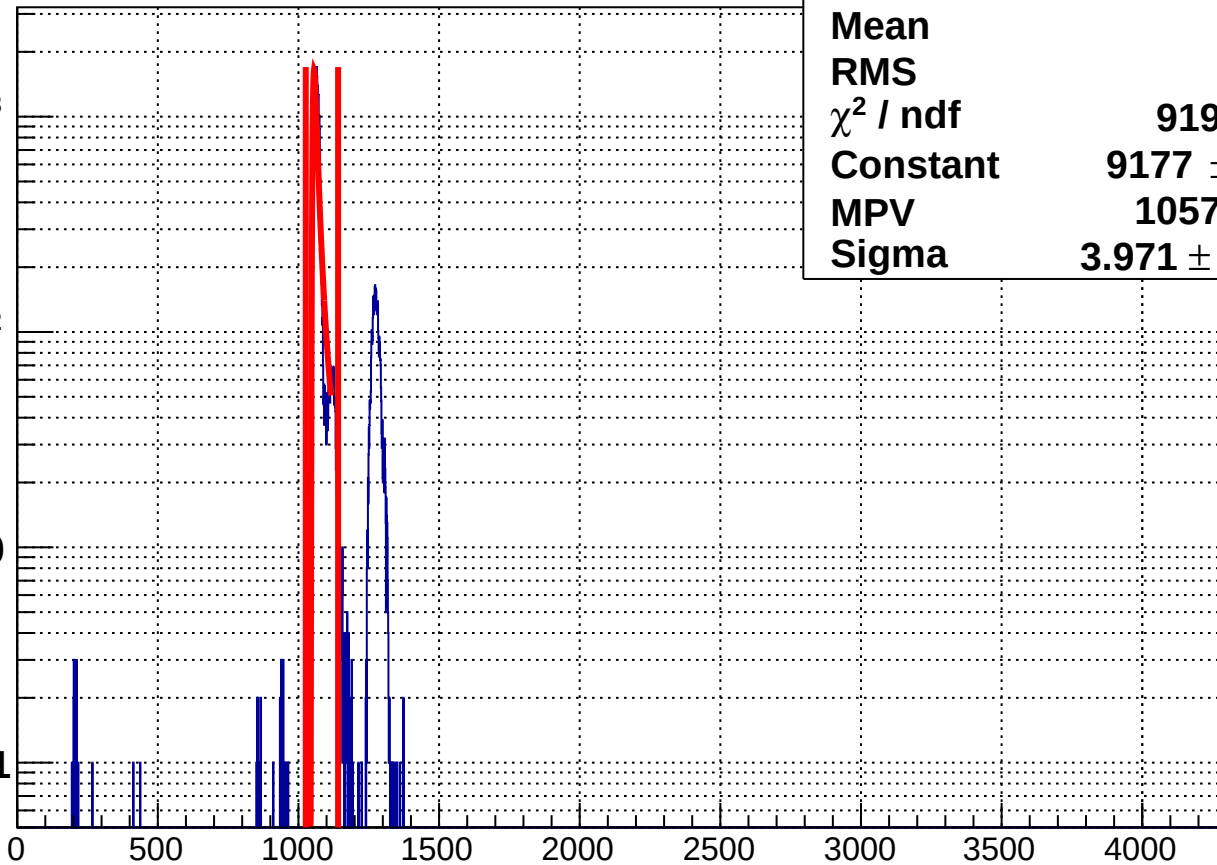
count

10^3

10^2

10

1



Entries

49202

Mean

1087

RMS

69.38

χ^2 / ndf

9190 / 79

Constant

9177 ± 77.7

MPV

1057 ± 0.1

Sigma

3.971 ± 0.028