

leTrg

LE Time (ns)

4000
3500
3000
2500
2000
1500
1000
500
0

0

20

40

60

80

100

120

Tray #

leTrg	
Entries	785649
Mean x	67.85
Mean y	1025
RMS x	38.94
RMS y	475.4

00

800

600

400

200

0

Tue Apr 11 14:03:01 2017

Run# 18101010

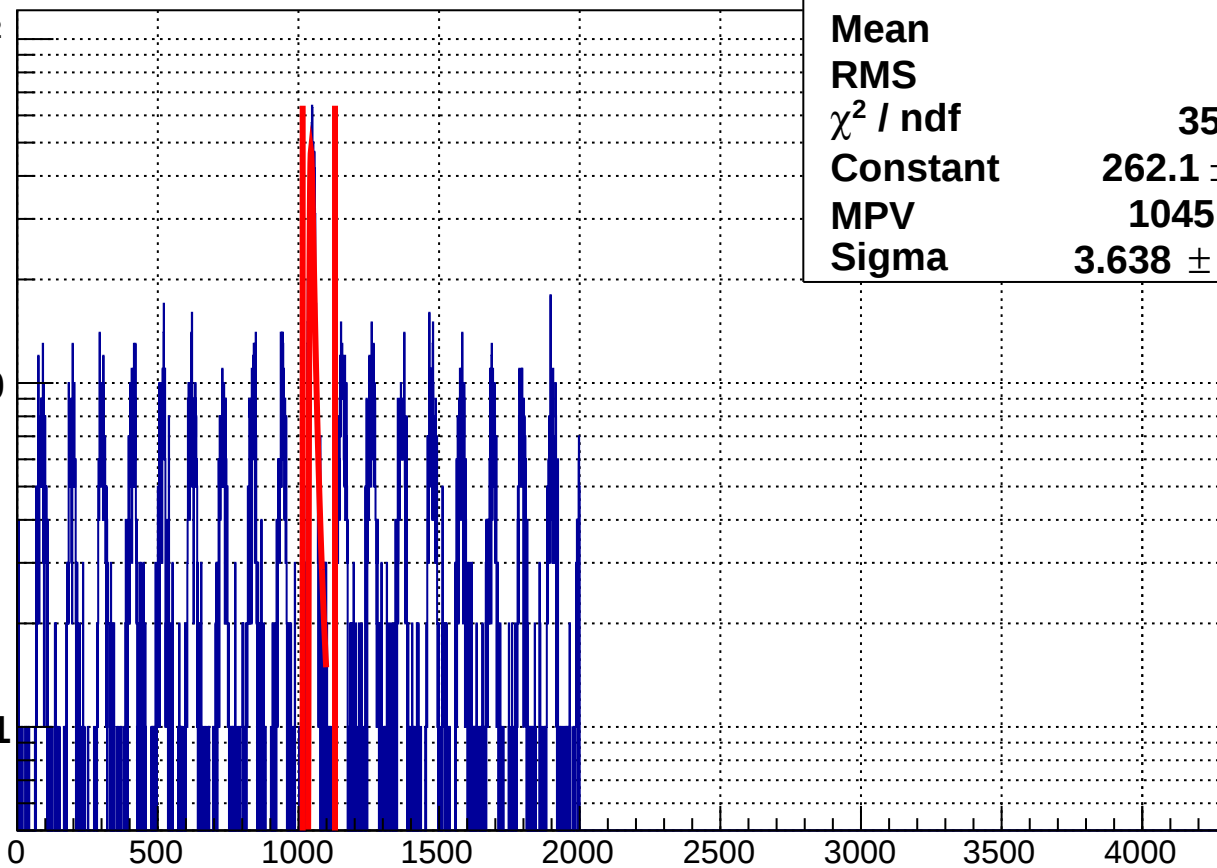
tray_le_1

count

10^2

10

1



LE time (ns)

Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

tray_le_2

Entries	5933
Mean	1020
RMS	507.1
χ^2 / ndf	211 / 65
Constant	225.2 ± 9.7
MPV	1043 ± 0.4
Sigma	5.352 ± 0.191

Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

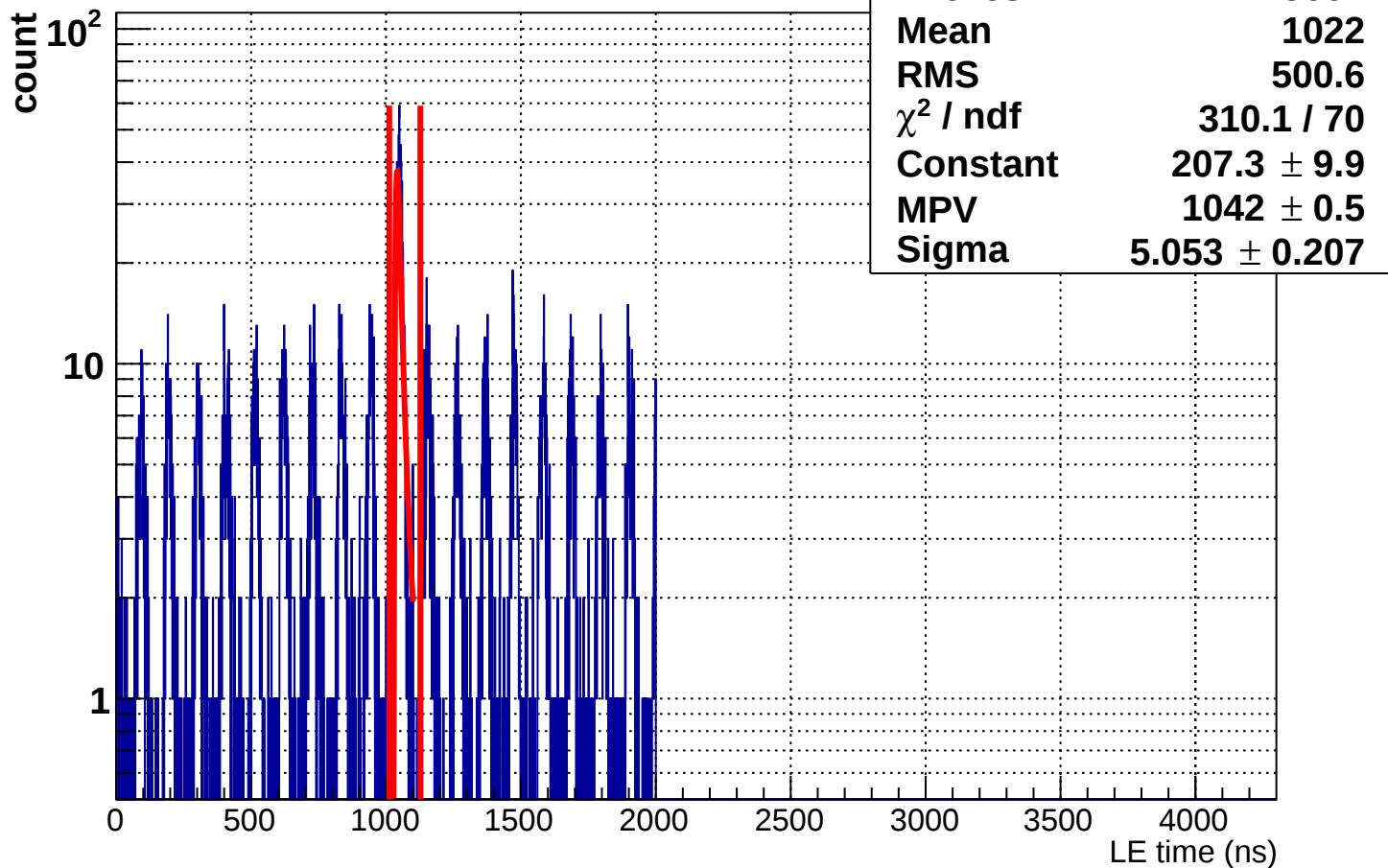
4000

LE time (ns)

tray_le_3

Entries	5828
Mean	1026
RMS	505.6
χ^2 / ndf	281.5 / 69
Constant	225.7 ± 9.9
MPV	1042 ± 0.4
Sigma	4.885 ± 0.169

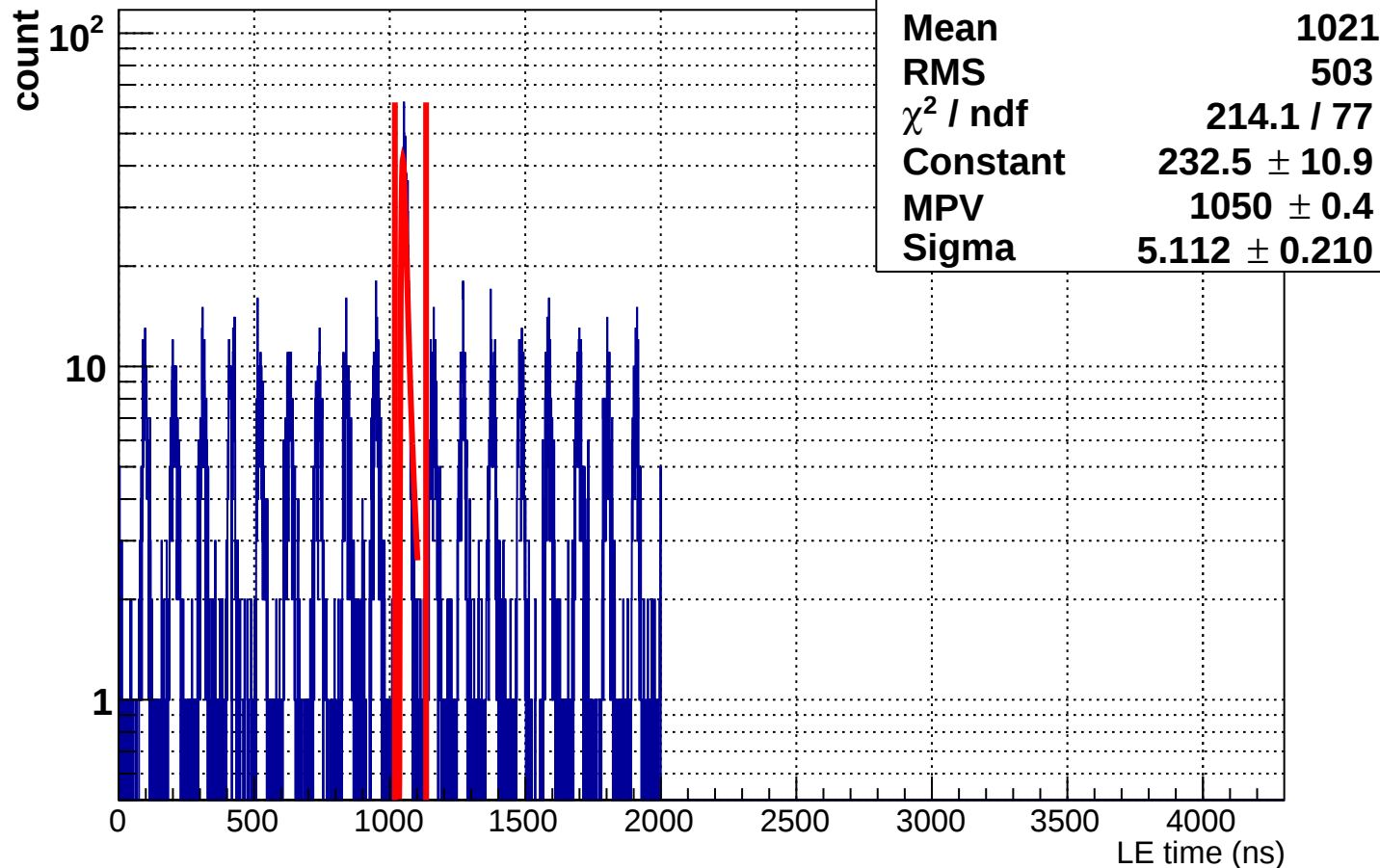
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Run# 18101010

tray_le_5



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Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

tray_le_6

Entries

5874

Mean

1023

RMS

504

χ^2 / ndf

284.5 / 71

Constant

257.4 ± 12.7

MPV

1051 ± 0.4

Sigma

4.311 ± 0.184

Run# 18101010

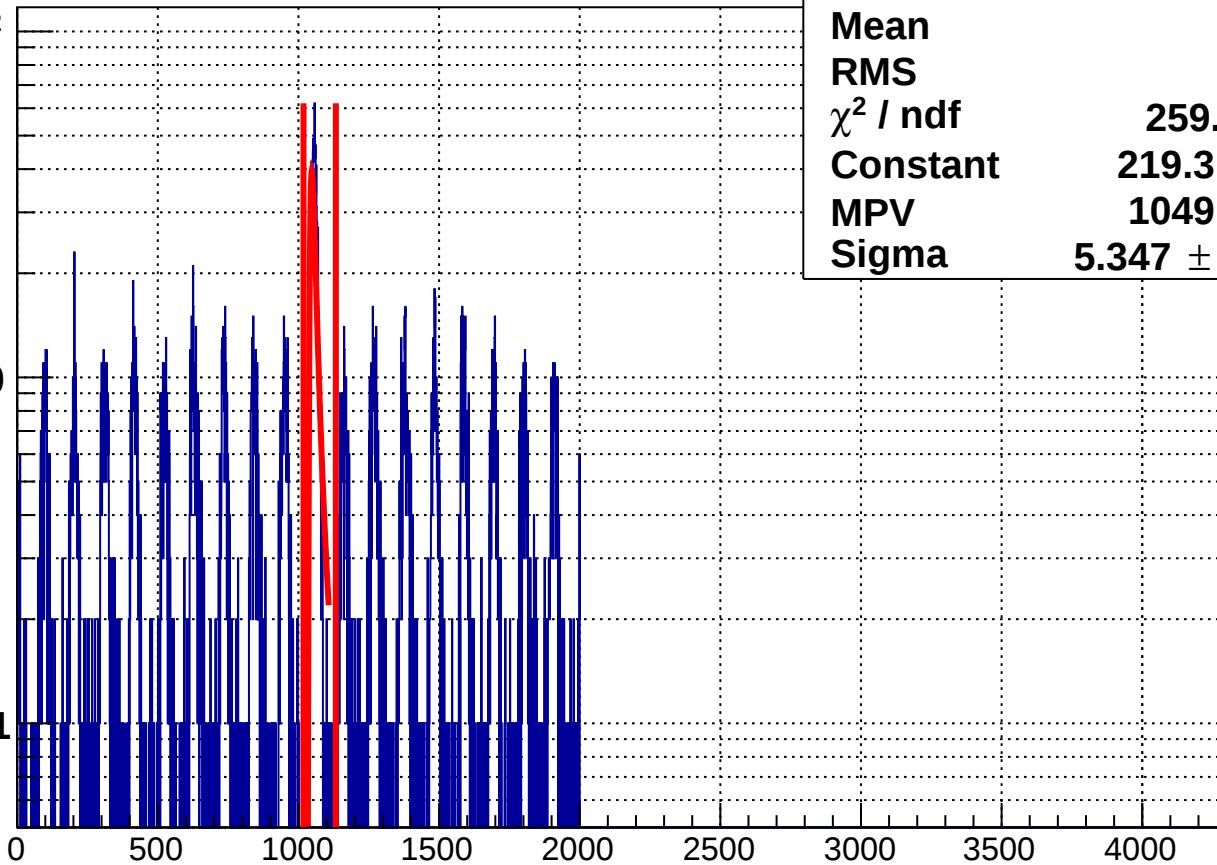
tray_le_7

count

10^2

10

1



tray_le_7	
Entries	6134
Mean	1009
RMS	500.7
χ^2 / ndf	259.6 / 68
Constant	219.3 ± 9.4
MPV	1049 ± 0.4
Sigma	5.347 ± 0.187

LE time (ns)

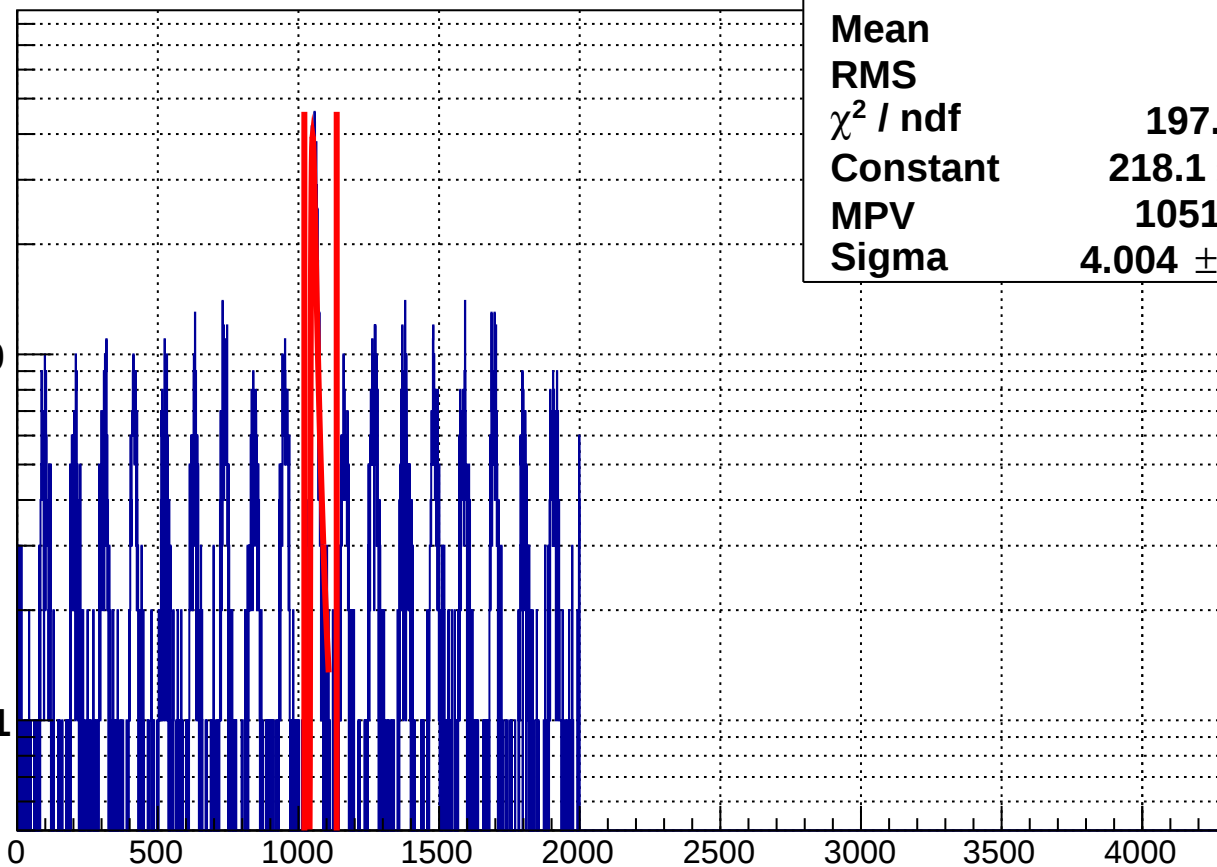
Run# 18101010

tray_le_8

count

10

1



Entries

4469

Mean

1027

RMS

497.7

χ^2 / ndf

197.7 / 67

Constant

218.1 ± 12.1

MPV

1051 ± 0.3

Sigma

4.004 ± 0.191

Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5833

Mean

1009

RMS

504.1

χ^2 / ndf

269.8 / 66

Constant

261.7 ± 13.7

MPV

1050 ± 0.4

Sigma

4.21 ± 0.20

tray_le_9

Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

tray_le_10

Entries	5843
Mean	1008
RMS	508.6
χ^2 / ndf	255.3 / 70
Constant	248 ± 11.6
MPV	1049 ± 0.4
Sigma	4.363 ± 0.170

Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

tray_le_11

Entries

6062

Mean

1009

RMS

510.1

χ^2 / ndf

254.7 / 65

Constant

252.1 ± 12.3

MPV

1050 ± 0.4

Sigma

4.703 ± 0.207

Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

6028

Mean

1010

RMS

500.6

χ^2 / ndf

289.3 / 67

Constant

250.4 ± 14.1

MPV

1051 ± 0.5

Sigma

4.479 ± 0.236

tray_le_12

Run# 18101010

tray_le_13

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5896

Mean

1018

RMS

506.7

χ^2 / ndf

196.9 / 72

Constant

262 ± 12.0

MPV

1049 ± 0.3

Sigma

4.421 ± 0.169

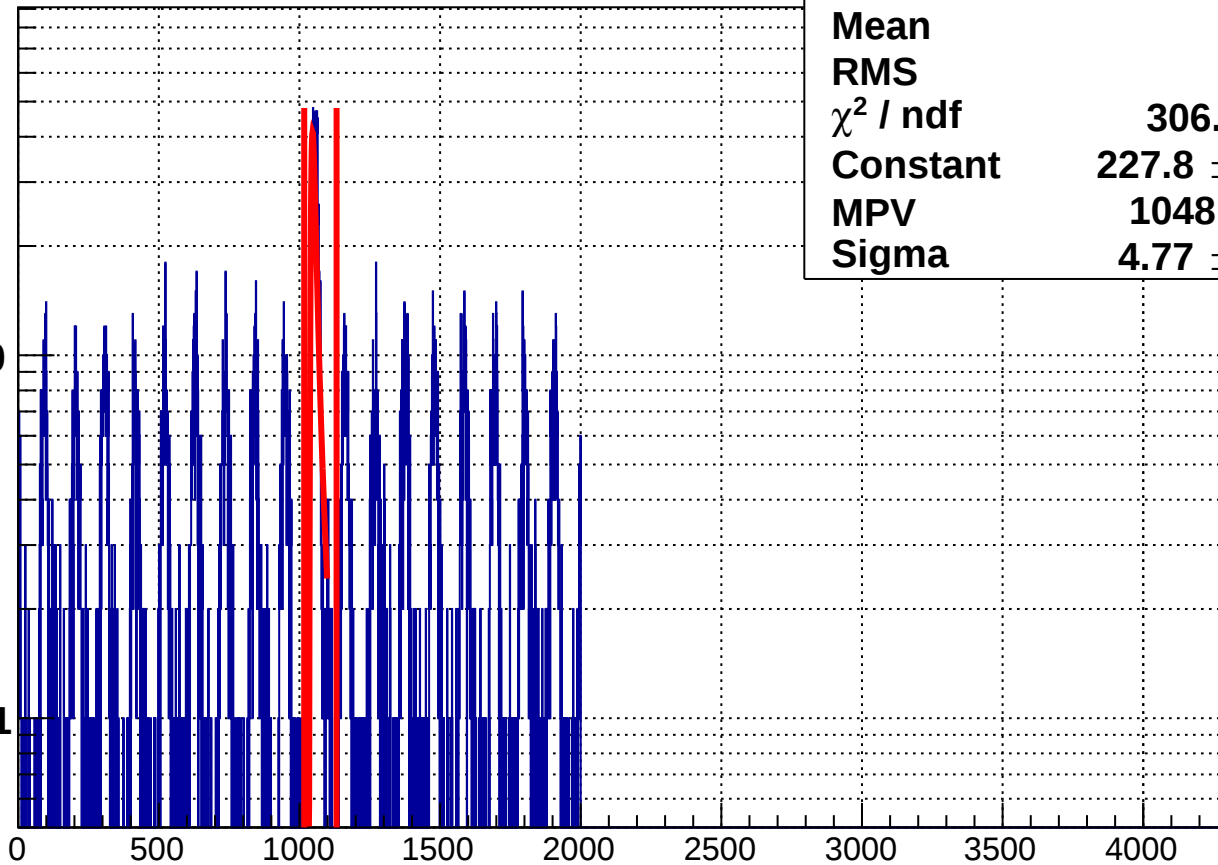
Run# 18101010

tray_le_14

count

10

1



Entries

5763

Mean

1023

RMS

505.7

χ^2 / ndf

306.4 / 67

Constant

227.8 ± 10.7

MPV

1048 ± 0.4

Sigma

4.77 ± 0.19

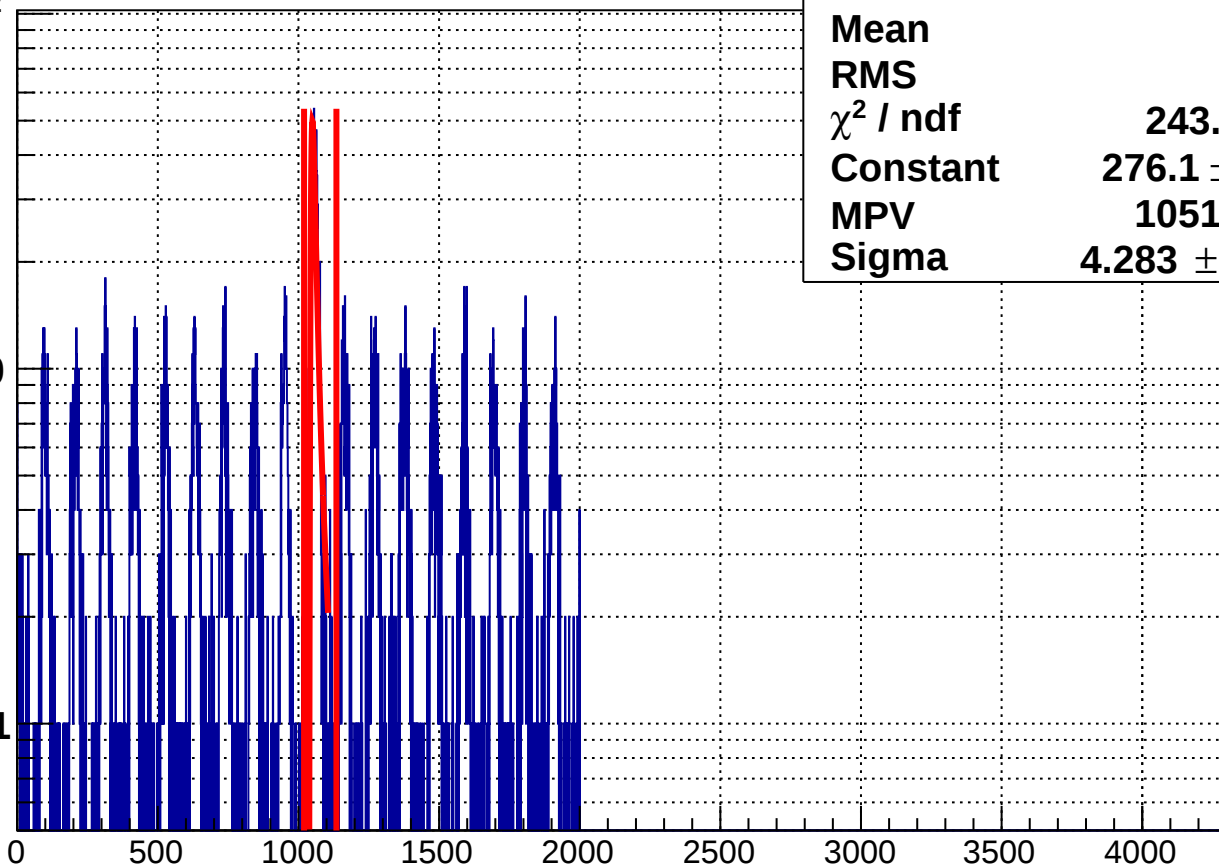
Run# 18101010

count

10^2

10

1



tray_le_15

Entries	5892
Mean	996.9
RMS	500.1
χ^2 / ndf	243.6 / 75
Constant	276.1 ± 12.9
MPV	1051 ± 0.3
Sigma	4.283 ± 0.171

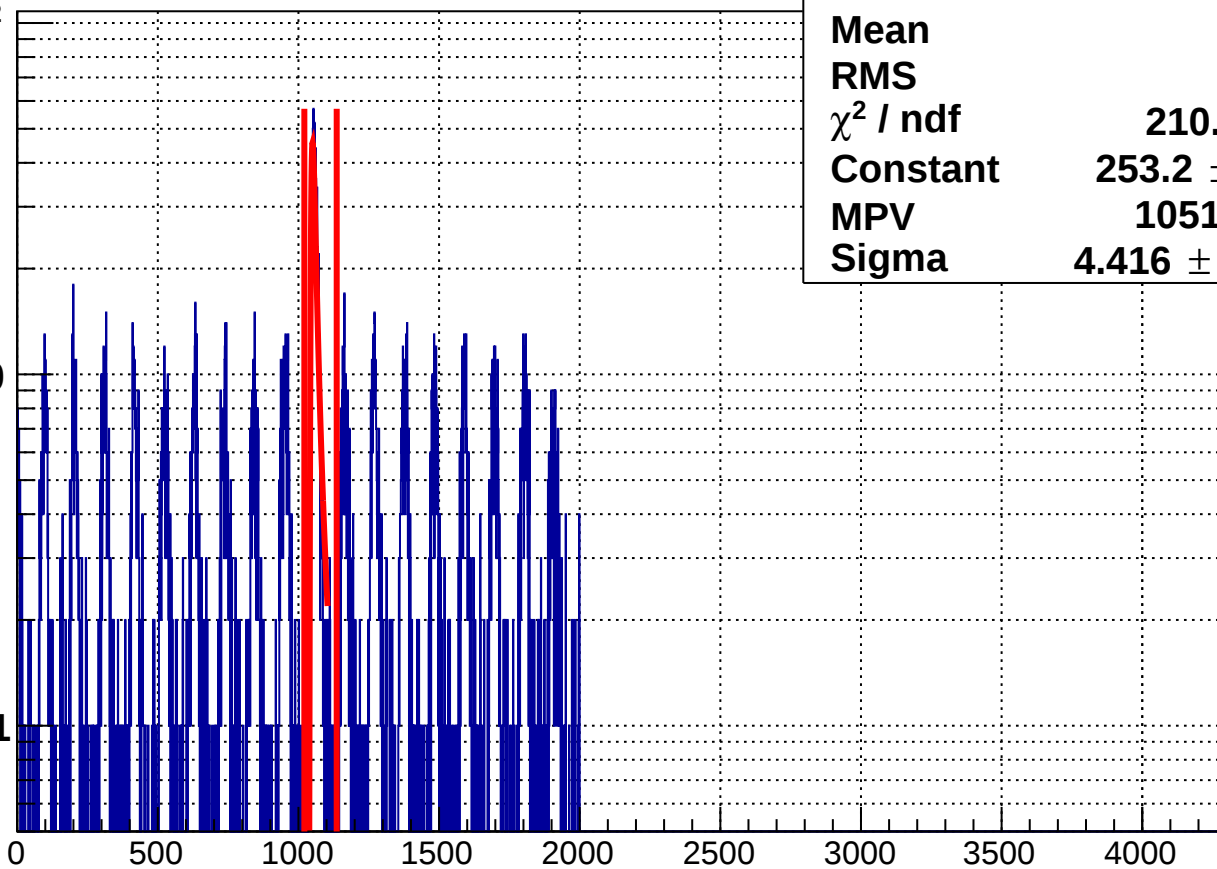
Run# 18101010

count

10^2

10

1



tray_le_16

Entries	5693
Mean	1011
RMS	505.8
χ^2 / ndf	210.9 / 68
Constant	253.2 ± 12.7
MPV	1051 ± 0.4
Sigma	4.416 ± 0.197

LE time (ns)

Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5607

Mean

1005

RMS

505.5

χ^2 / ndf

283.6 / 70

Constant

186.3 ± 8.9

MPV

1042 ± 0.5

Sigma

5.322 ± 0.209

tray_le_17

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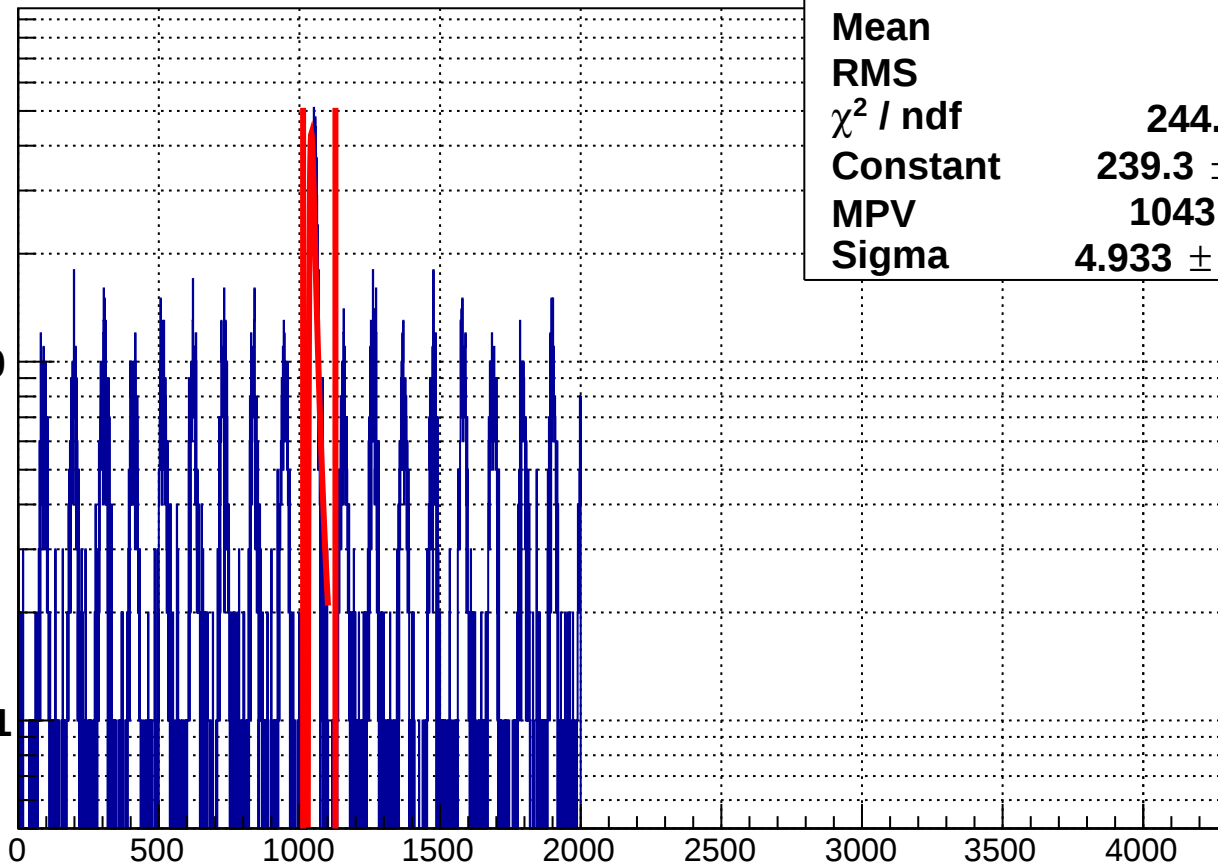
Run# 18101010

tray_le_18

count

10

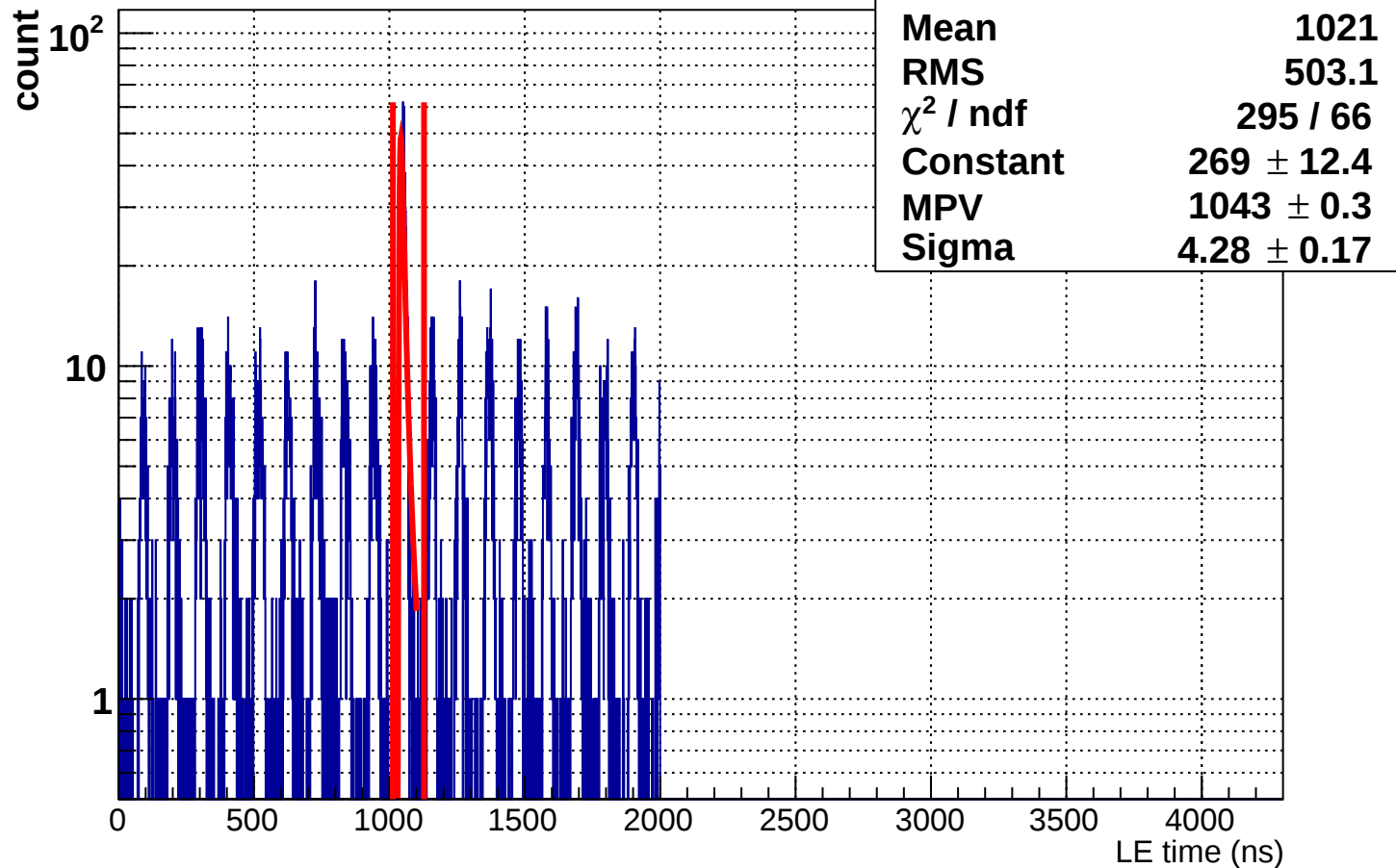
1



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tray_le_19



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Run# 18101010

tray_le_20

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

6306

Mean

1021

RMS

510.2

χ^2 / ndf

294.8 / 66

Constant

252.5 ± 11.2

MPV

1043 ± 0.4

Sigma

5.004 ± 0.190

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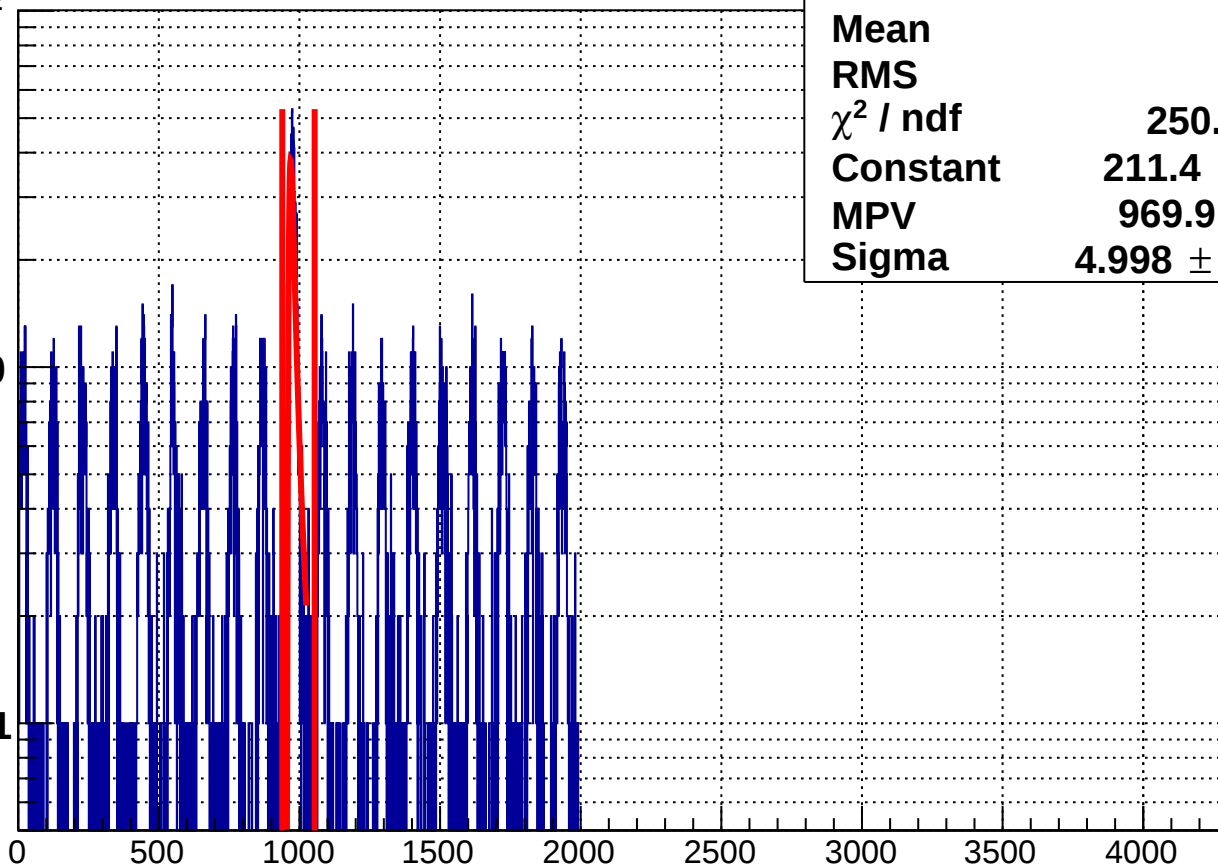
Run# 18101010

count

10^2

10

1



tray_le_21

Entries	5859
Mean	988.4
RMS	531.5
χ^2 / ndf	250.3 / 67
Constant	211.4 ± 10.1
MPV	969.9 ± 0.4
Sigma	4.998 ± 0.202

LE time (ns)

Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5927

Mean

982

RMS

519.5

χ^2 / ndf

237.5 / 67

Constant

229 ± 10.8

MPV

970.7 ± 0.4

Sigma

4.935 ± 0.200

tray_le_22

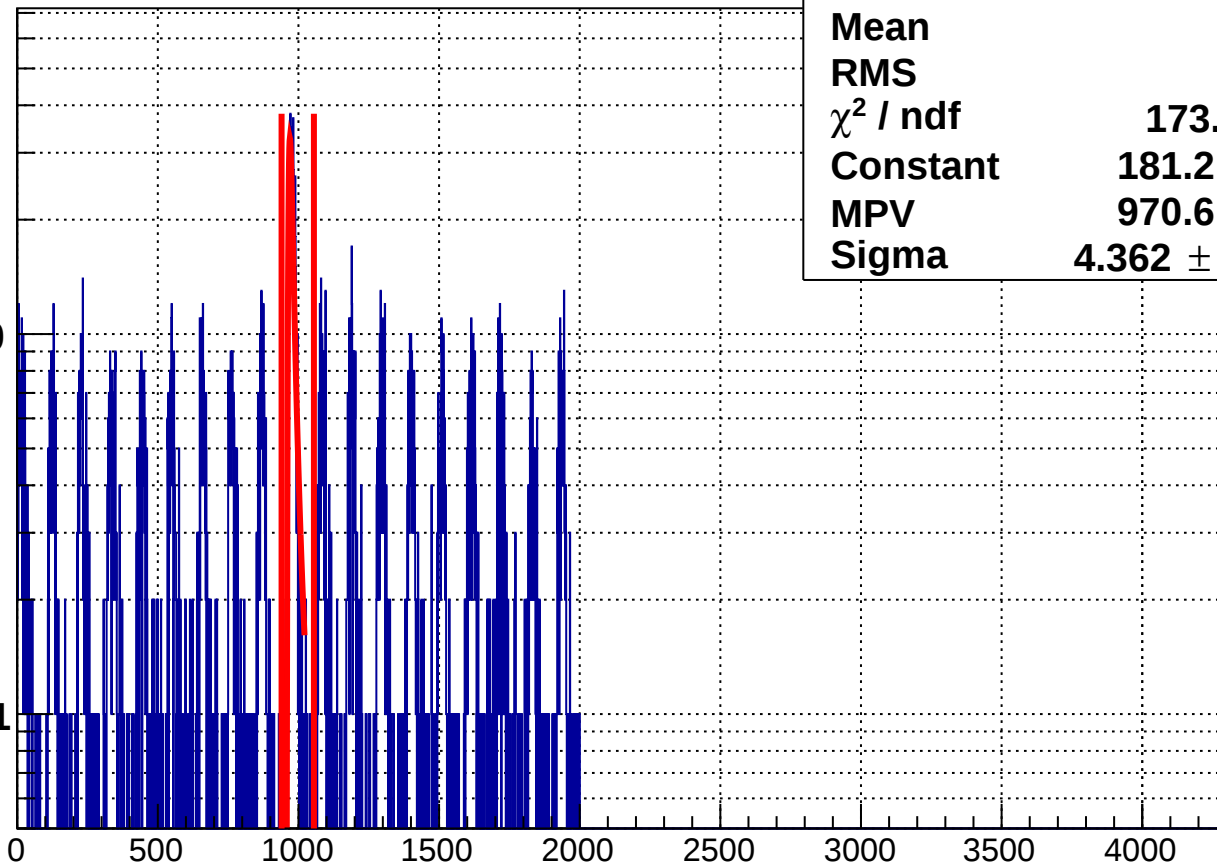
Run# 18101010

tray_le_23

count

10

1



Entries	4395
Mean	977.5
RMS	525.1
χ^2 / ndf	173.5 / 63
Constant	181.2 ± 9.6
MPV	970.6 ± 0.4
Sigma	4.362 ± 0.188

Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5811

Mean

987.3

RMS

516.4

χ^2 / ndf

263.3 / 69

Constant

240.2 ± 11.2

MPV

969.8 ± 0.4

Sigma

4.737 ± 0.188

tray_le_24

Run# 18101010

count

10^2

10

1

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

tray_le_25	
Entries	6108
Mean	1002
RMS	528.5
χ^2 / ndf	278 / 73
Constant	240 ± 9.7
MPV	967.4 ± 0.4
Sigma	4.95 ± 0.15

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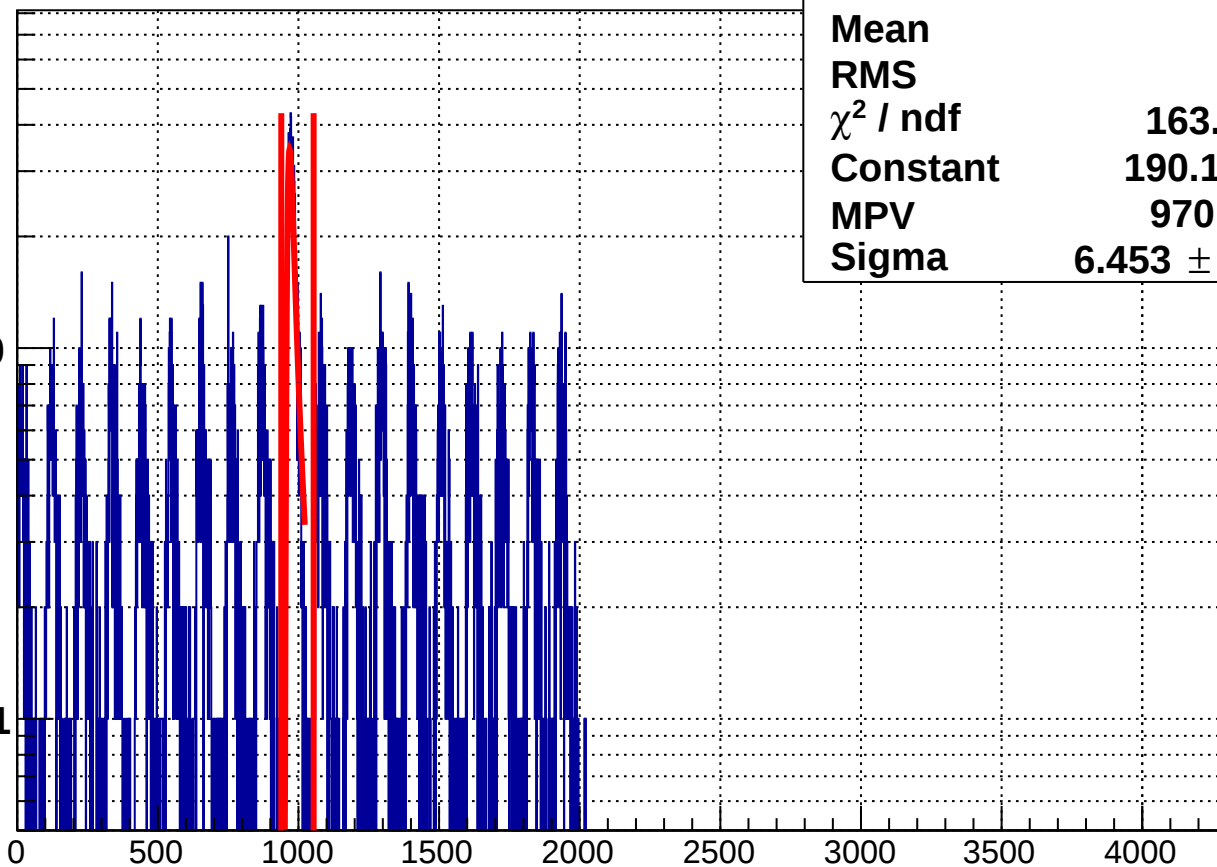
Run# 18101010

tray_le_26

count

10

1



LE time (ns)

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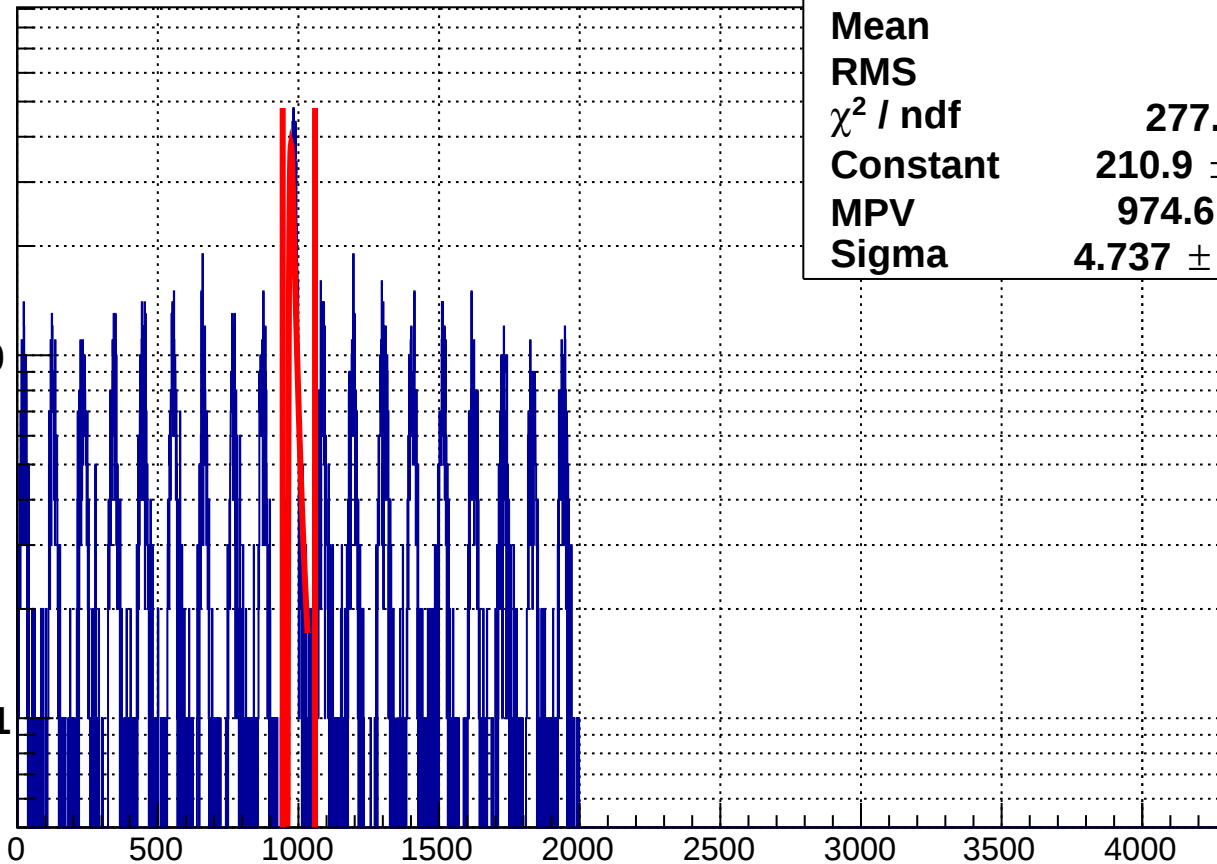
Run# 18101010

tray_le_27

count

10

1



Entries	5889
Mean	977.2
RMS	524.8
χ^2 / ndf	277.2 / 68
Constant	210.9 ± 11.4
MPV	974.6 ± 0.5
Sigma	4.737 ± 0.228

LE time (ns)

Run# 18101010

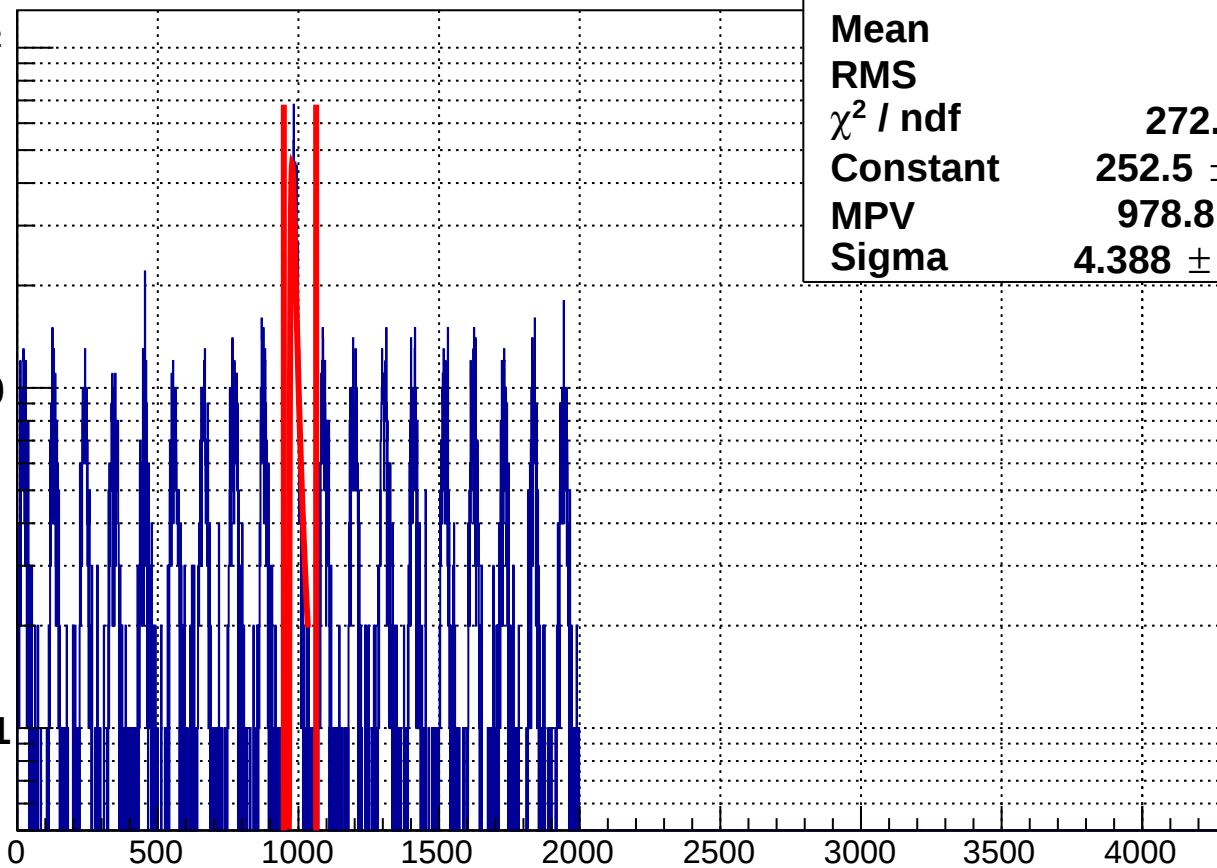
tray_le_28

count

10^2

10

1



Entries	6011
Mean	1002
RMS	520
χ^2 / ndf	272.9 / 70
Constant	252.5 ± 13.0
MPV	978.8 ± 0.4
Sigma	4.388 ± 0.200

LE time (ns)

Run# 18101010

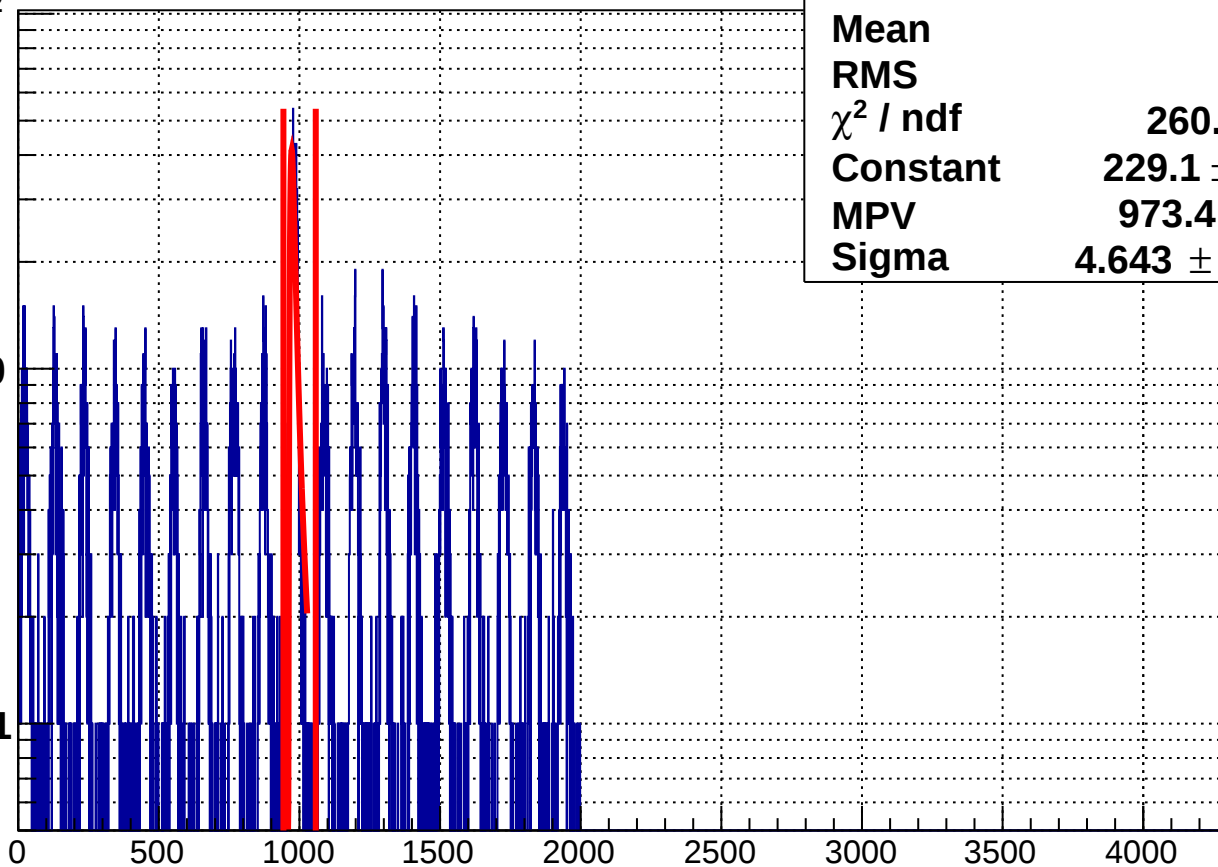
tray_le_29

count

10^2

10

1



Entries	5871
Mean	983.7
RMS	524.7
χ^2 / ndf	260.9 / 66
Constant	229.1 ± 10.7
MPV	973.4 ± 0.4
Sigma	4.643 ± 0.180

Run# 18101010

tray_le_30

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

6110

Mean

988.8

RMS

519.5

χ^2 / ndf

276 / 71

Constant

259.2 ± 12.6

MPV

975 ± 0.4

Sigma

4.297 ± 0.179

Run# 18101010

tray_le_31

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5798

Mean

993.4

RMS

511.9

χ^2 / ndf

264.2 / 72

Constant

253.6 ± 11.5

MPV

975.5 ± 0.4

Sigma

4.444 ± 0.165

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Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5988

Mean

1018

RMS

520.7

χ^2 / ndf

250.8 / 73

Constant

235.9 ± 10.4

MPV

983.9 ± 0.4

Sigma

5.234 ± 0.200

tray_le_32

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Run# 18101010

tray_le_33

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5806

Mean

1016

RMS

517.4

χ^2 / ndf

248.3 / 68

Constant

213.2 ± 10.1

MPV

984.8 ± 0.4

Sigma

4.964 ± 0.199

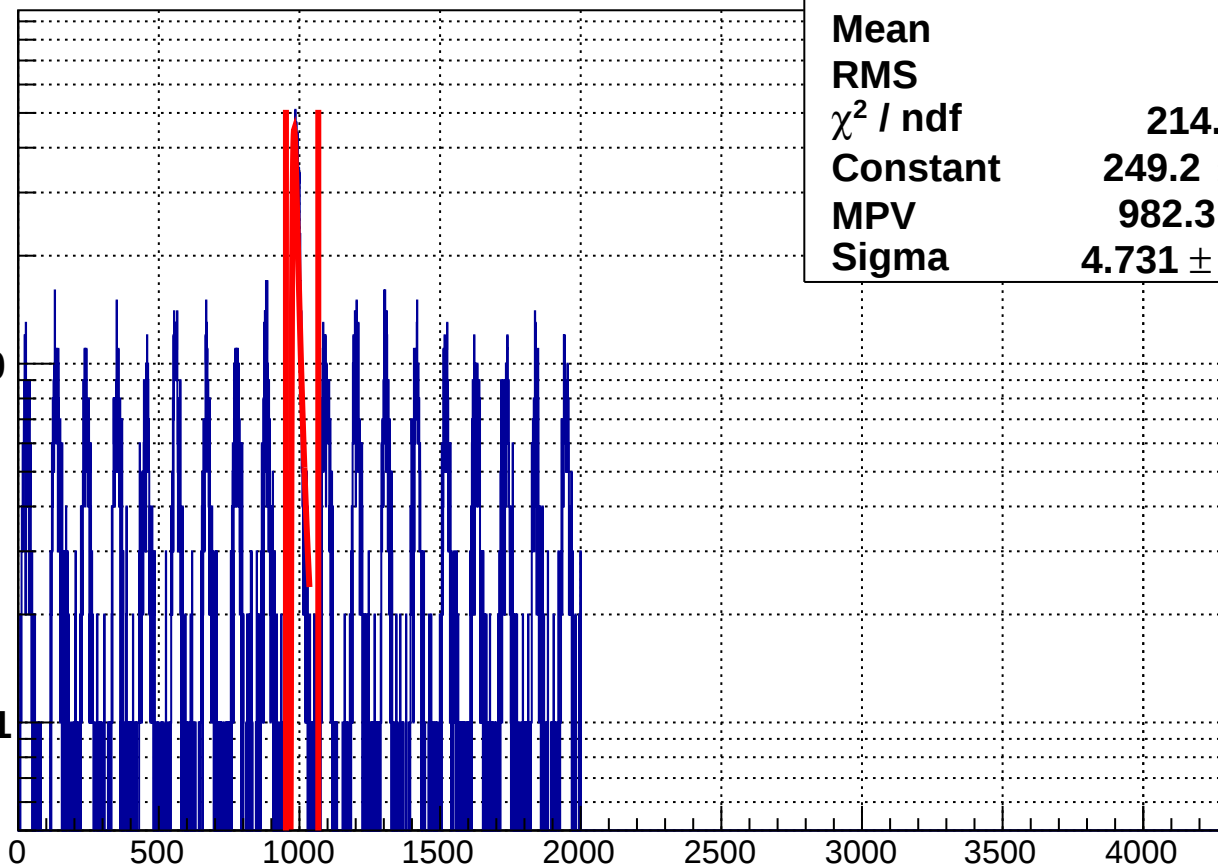
Run# 18101010

tray_le_34

count

10

1



tray_le_34	
Entries	5971
Mean	994.6
RMS	522.2
χ^2 / ndf	214.2 / 70
Constant	249.2 ± 11.1
MPV	982.3 ± 0.4
Sigma	4.731 ± 0.175

LE time (ns)

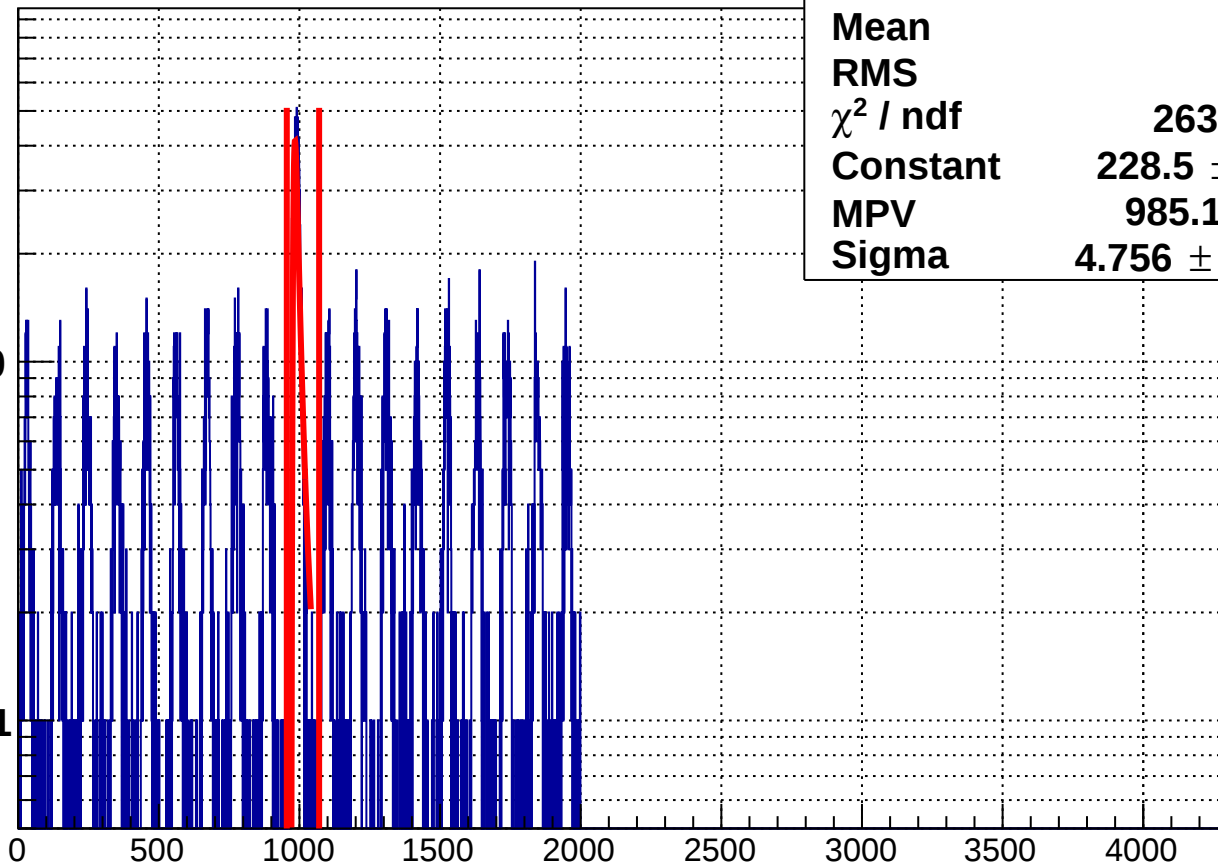
Run# 18101010

tray_le_35

count

10

1

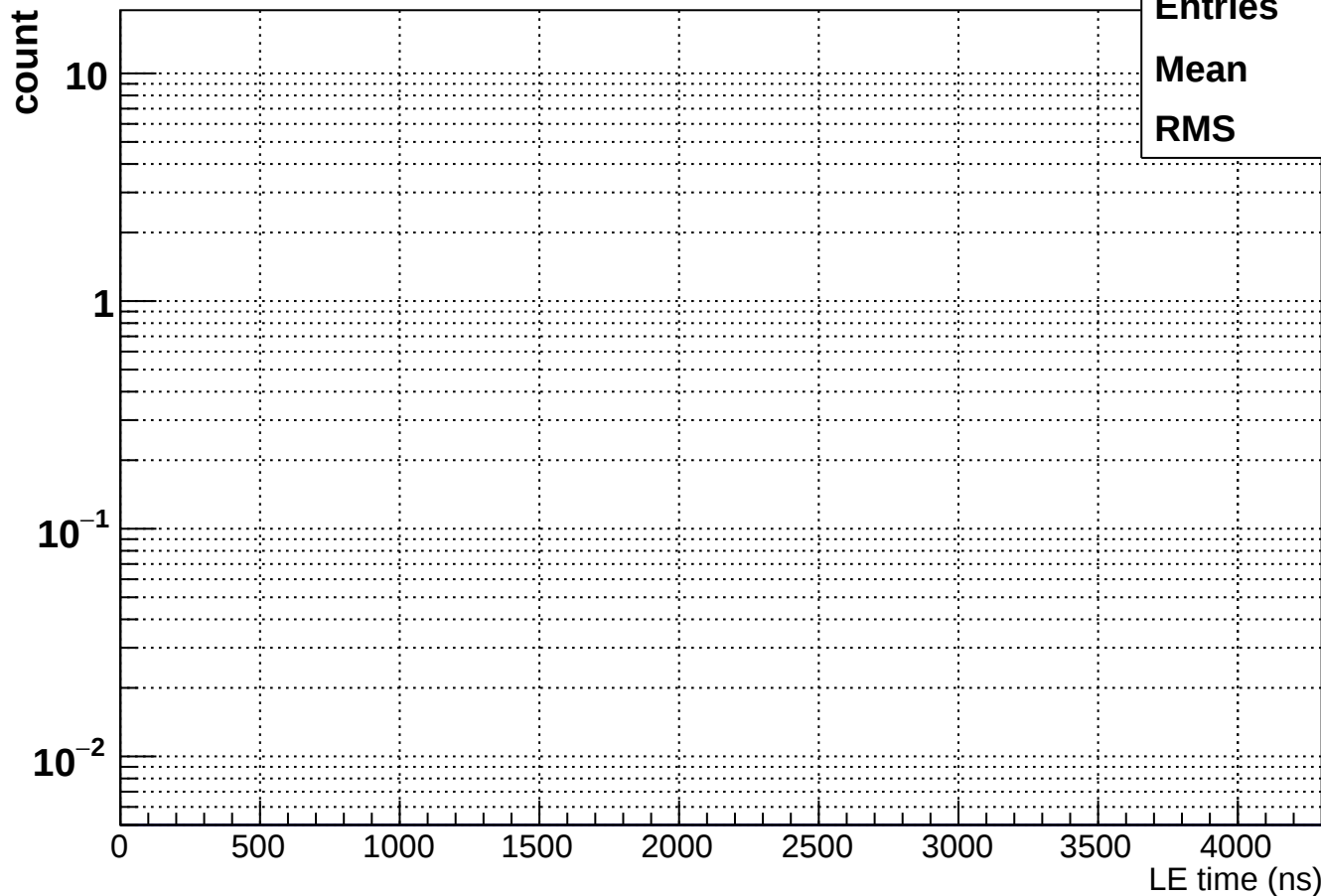


Entries	5970
Mean	1009
RMS	523.6
χ^2 / ndf	263.5 / 71
Constant	228.5 ± 13.5
MPV	985.1 ± 0.5
Sigma	4.756 ± 0.269

Run# 18101010

tray_le_36

Entries	0
Mean	0
RMS	0



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Run# 18101010

tray_le_37

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

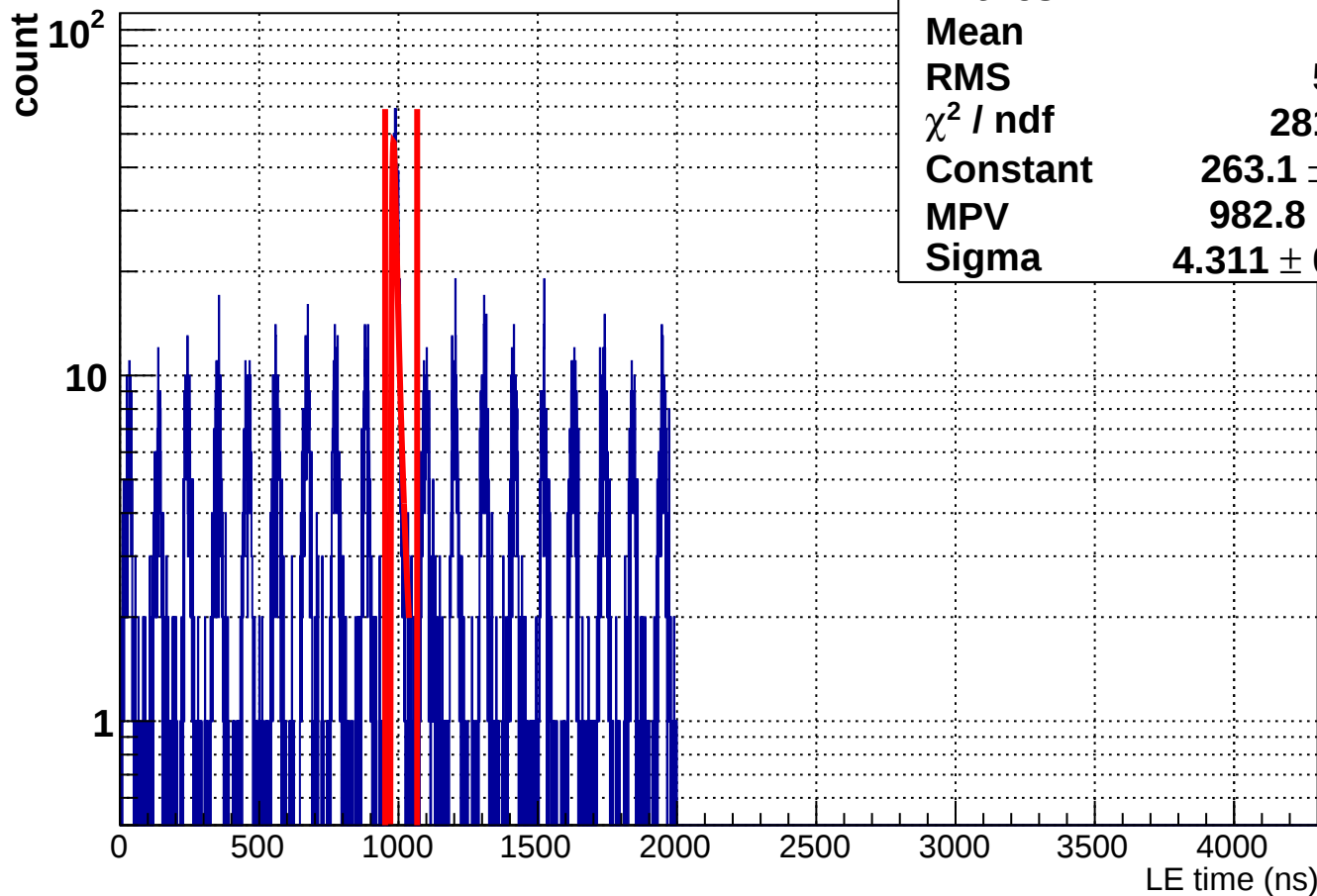
3500

4000

LE time (ns)

Entries	5809
Mean	990.3
RMS	525
χ^2 / ndf	332.8 / 72
Constant	229.7 ± 12.0
MPV	983.9 ± 0.5
Sigma	4.638 ± 0.213

Run# 18101010



tray_le_38

Entries	5813
Mean	1009
RMS	511.7
χ^2 / ndf	281 / 72
Constant	263.1 ± 12.1
MPV	982.8 ± 0.4
Sigma	4.311 ± 0.165

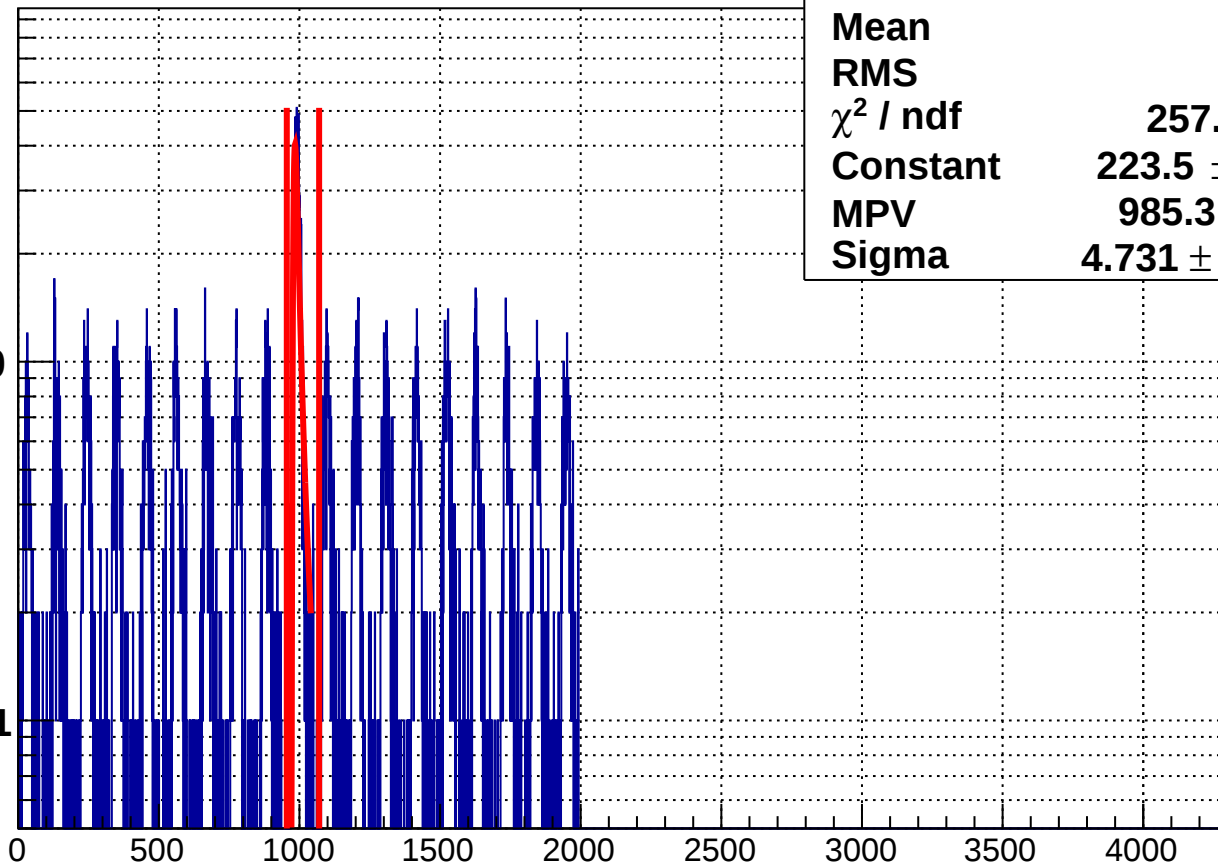
Run# 18101010

tray_le_39

count

10

1



Entries

5935

Mean

1005

RMS

526.4

χ^2 / ndf

257.1 / 69

Constant

223.5 ± 13.0

MPV

985.3 ± 0.5

Sigma

4.731 ± 0.260

Run# 18101010

tray_le_40

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

6211

Mean

996.4

RMS

515

χ^2 / ndf

335.1 / 75

Constant

275.1 ± 13.1

MPV

977.7 ± 0.3

Sigma

4.017 ± 0.158

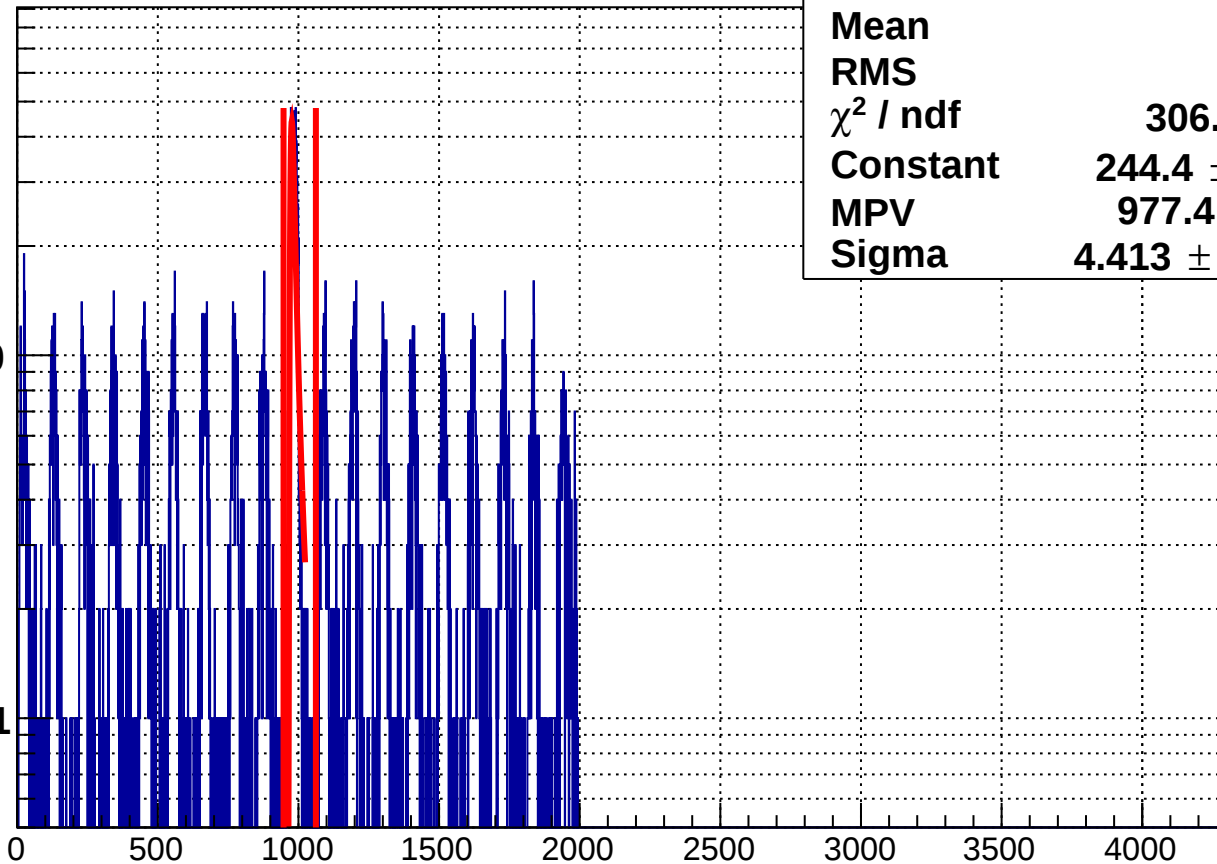
Run# 18101010

tray_le_41

count

10

1



LE time (ns)

Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

tray_le_42

Entries	5988
Mean	994.3
RMS	516.9
χ^2 / ndf	273.4 / 75
Constant	234.1 ± 11.2
MPV	977 ± 0.4
Sigma	4.566 ± 0.182

Run# 18101010

tray_le_43

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

6155

Mean

1011

RMS

523.7

χ^2 / ndf

289.7 / 75

Constant

238.4 ± 11.9

MPV

978.2 ± 0.4

Sigma

4.468 ± 0.192

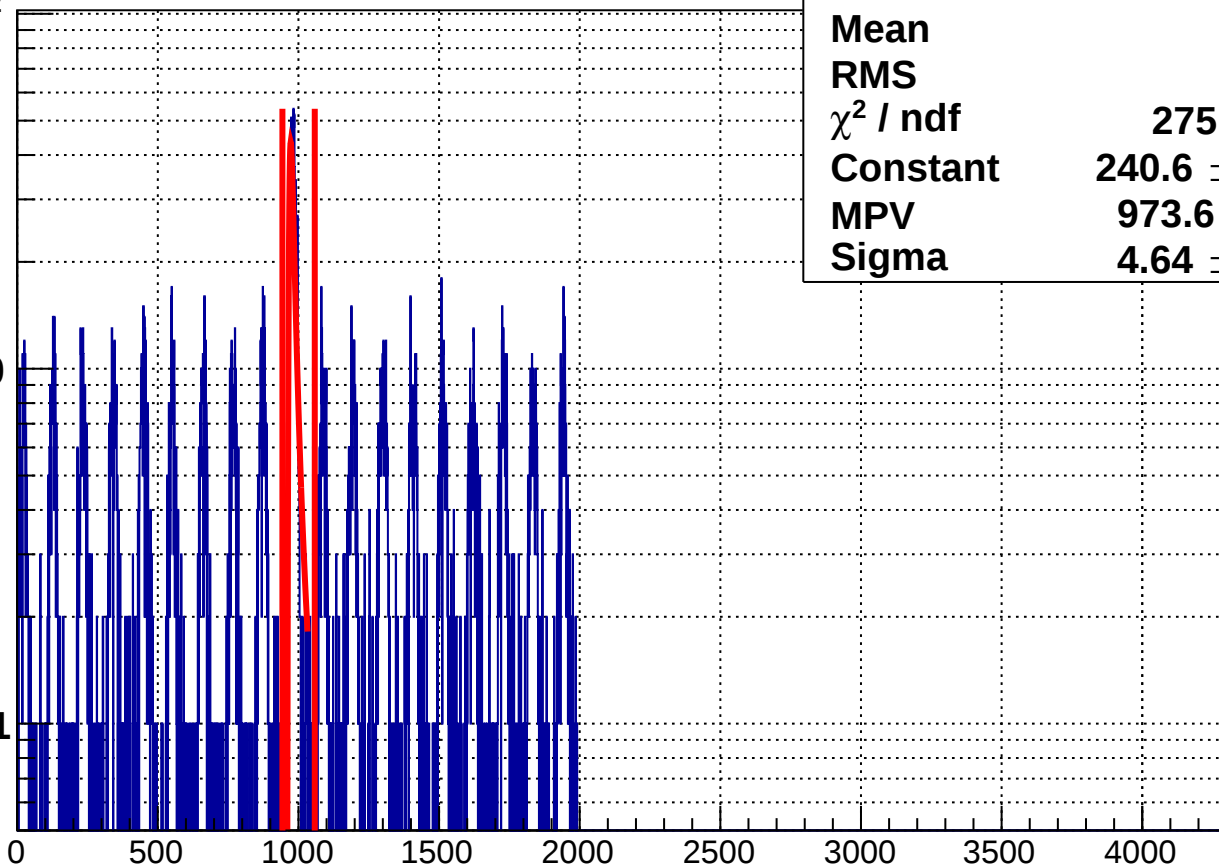
Run# 18101010

count

10^2

10

1



tray_le_44

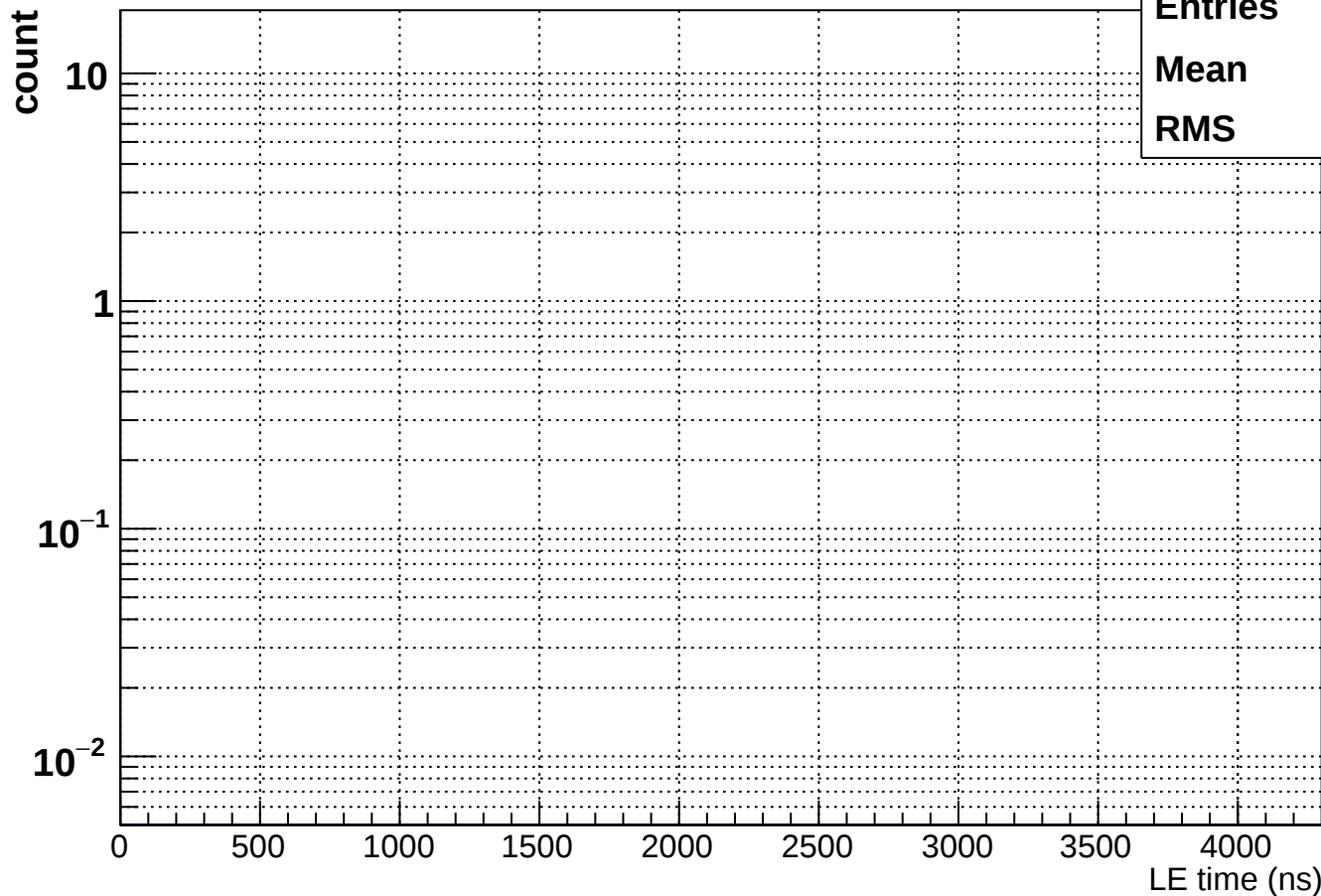
Entries	6057
Mean	991.7
RMS	525.5
χ^2 / ndf	275.9 / 71
Constant	240.6 ± 11.0
MPV	973.6 ± 0.4
Sigma	4.64 ± 0.18

LE time (ns)

Run# 18101010

tray_le_45

Entries	0
Mean	0
RMS	0



Run# 18101010

tray_le_46

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

6159

Mean

986.3

RMS

514.8

χ^2 / ndf

293.3 / 67

Constant

259.1 ± 11.8

MPV

967.5 ± 0.4

Sigma

4.551 ± 0.174

Run# 18101010

tray_le_47

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

6322

Mean

993.2

RMS

518.4

χ^2 / ndf

328.3 / 69

Constant

284.1 ± 15.7

MPV

970.8 ± 0.4

Sigma

4.181 ± 0.217

Run# 18101010

tray_le_48

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

6274

Mean

1007

RMS

522.2

χ^2 / ndf

299 / 69

Constant

256.3 ± 11.7

MPV

968.9 ± 0.3

Sigma

4.442 ± 0.168

Run# 18101010

tray_le_49

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

6260

Mean

990.8

RMS

526.1

χ^2 / ndf

281.1 / 69

Constant

241.6 ± 11.1

MPV

969.5 ± 0.4

Sigma

4.854 ± 0.189

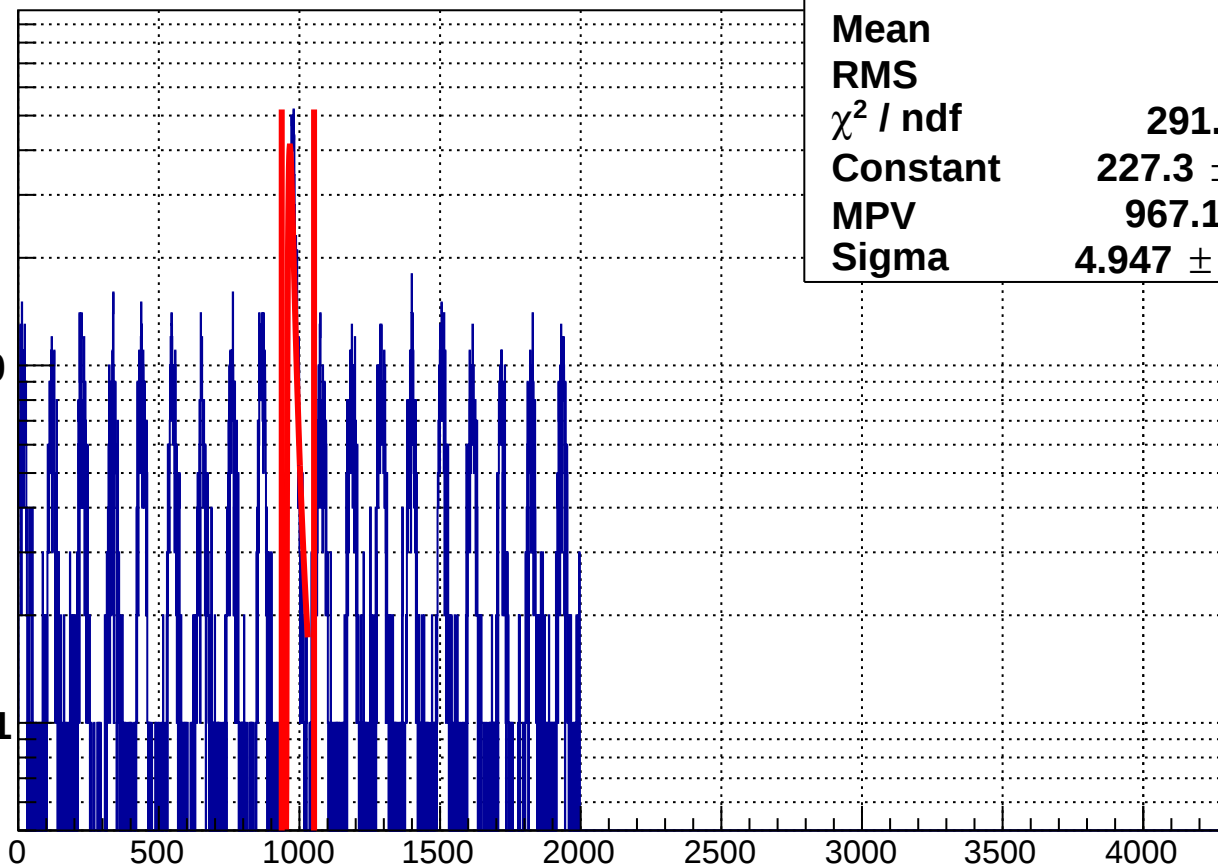
Run# 18101010

tray_le_50

count

10

1



Entries	6142
Mean	980.5
RMS	522.4
χ^2 / ndf	291.7 / 77
Constant	227.3 ± 10.6
MPV	967.1 ± 0.4
Sigma	4.947 ± 0.193

LE time (ns)

Run# 18101010

tray_le_51

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

6055

Mean

1018

RMS

515.1

χ^2 / ndf

312.7 / 71

Constant

256.5 ± 13.0

MPV

1026 ± 0.4

Sigma

4.46 ± 0.20

Run# 18101010

tray_le_52

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

6162

Mean

1033

RMS

512.5

χ^2 / ndf

354 / 69

Constant

268.1 ± 13.4

MPV

1029 ± 0.4

Sigma

3.949 ± 0.168

Run# 18101010

tray_le_53

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5916

Mean

1023

RMS

524.5

χ^2 / ndf

289.3 / 73

Constant

235.7 ± 11.2

MPV

1025 ± 0.4

Sigma

4.571 ± 0.181

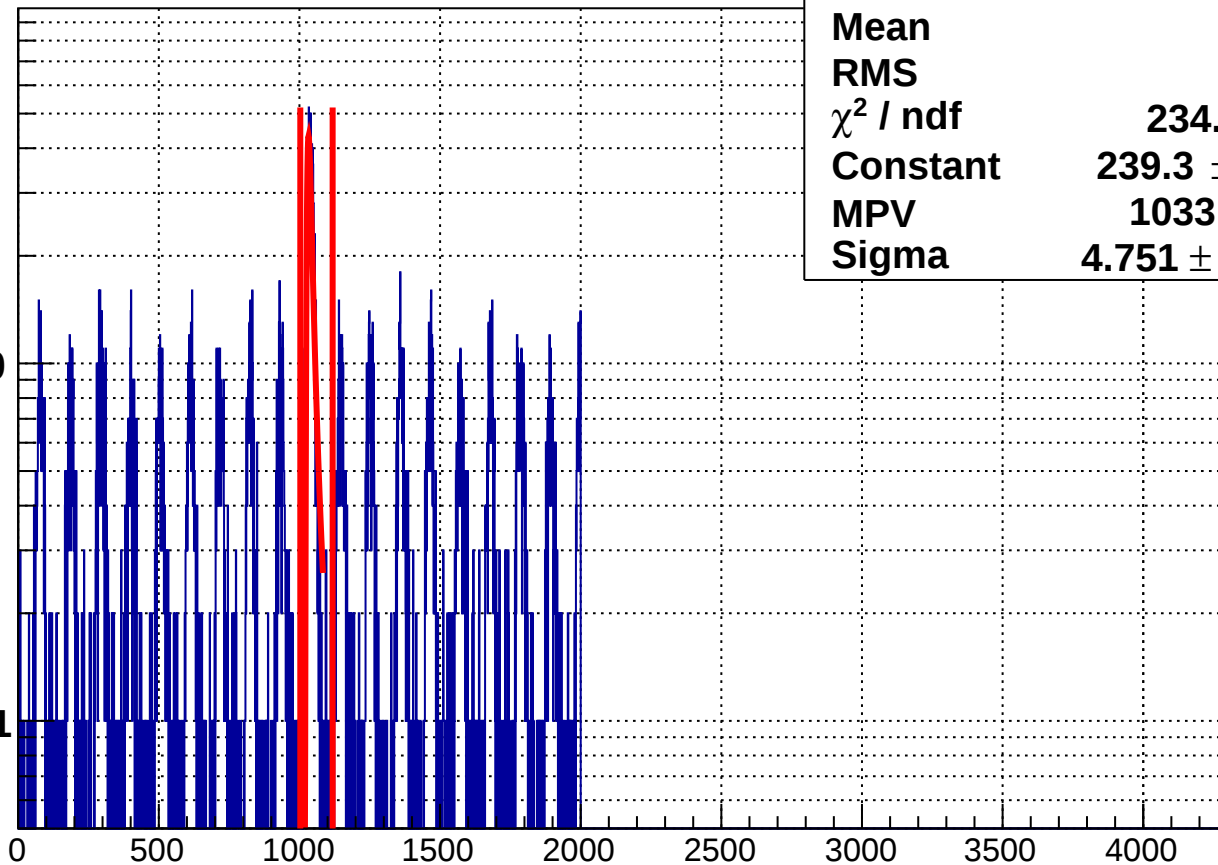
Run# 18101010

tray_le_54

count

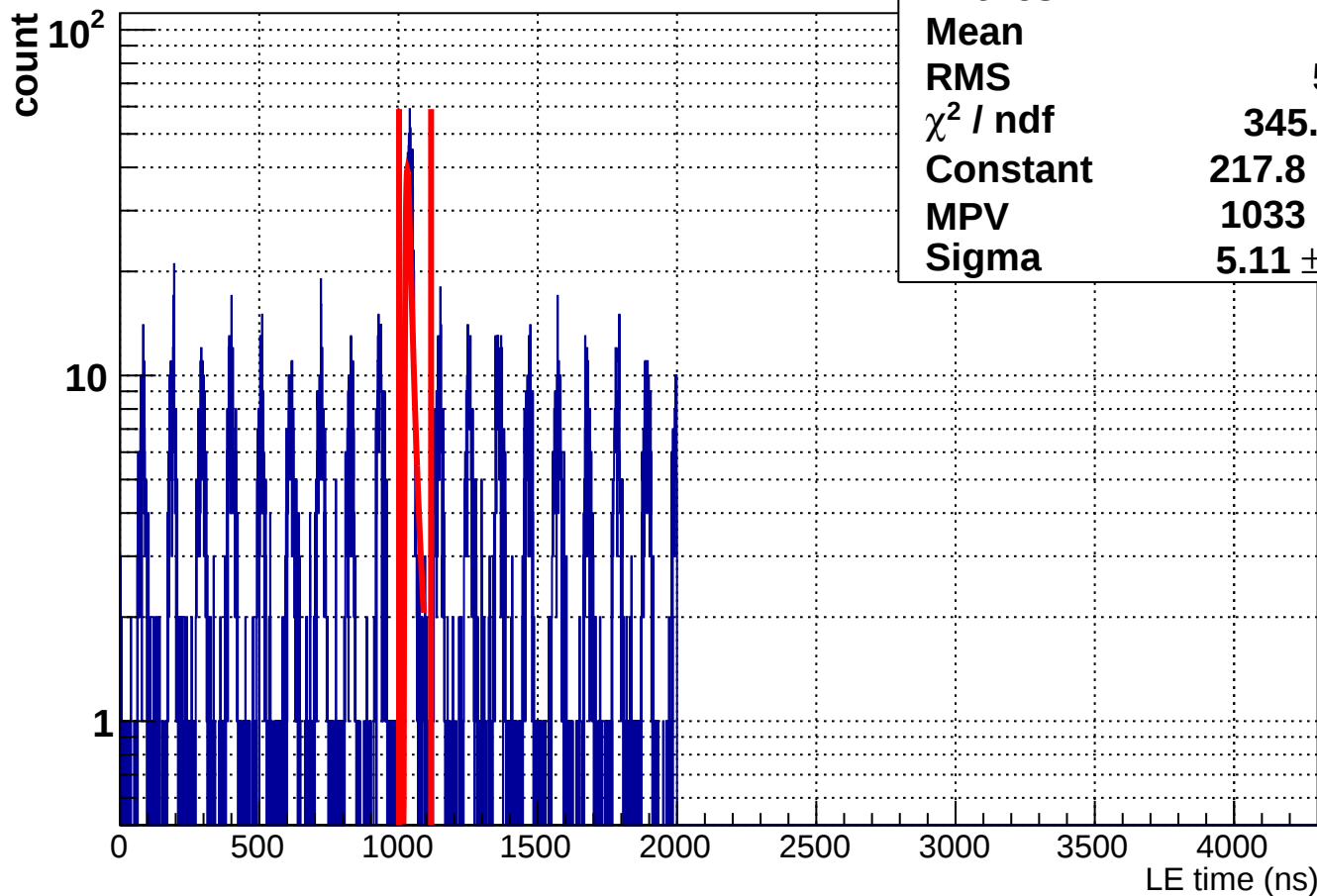
10

1



Entries	5951
Mean	1023
RMS	517.3
χ^2 / ndf	234.9 / 68
Constant	239.3 ± 11.3
MPV	1033 ± 0.4
Sigma	4.751 ± 0.192

Run# 18101010



tray_le_55

Entries	5920
Mean	1019
RMS	511.9
χ^2 / ndf	345.1 / 71
Constant	217.8 ± 9.8
MPV	1033 ± 0.4
Sigma	5.11 ± 0.19

Run# 18101010

tray_le_56

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5826

Mean

1034

RMS

507.8

χ^2 / ndf

257.4 / 66

Constant

232.7 ± 12.1

MPV

1036 ± 0.5

Sigma

4.83 ± 0.23

Run# 18101010

tray_le_57

count

10^2
10
1

Entries	5984
Mean	1023
RMS	514
χ^2 / ndf	215.8 / 69
Constant	255.1 ± 11.7
MPV	1036 ± 0.3
Sigma	4.598 ± 0.179

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

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Run# 18101010

tray_le_58

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

6051

Mean

1032

RMS

507.9

χ^2 / ndf

259.9 / 59

Constant

252.5 ± 11.5

MPV

1036 ± 0.4

Sigma

4.777 ± 0.189

Run# 18101010

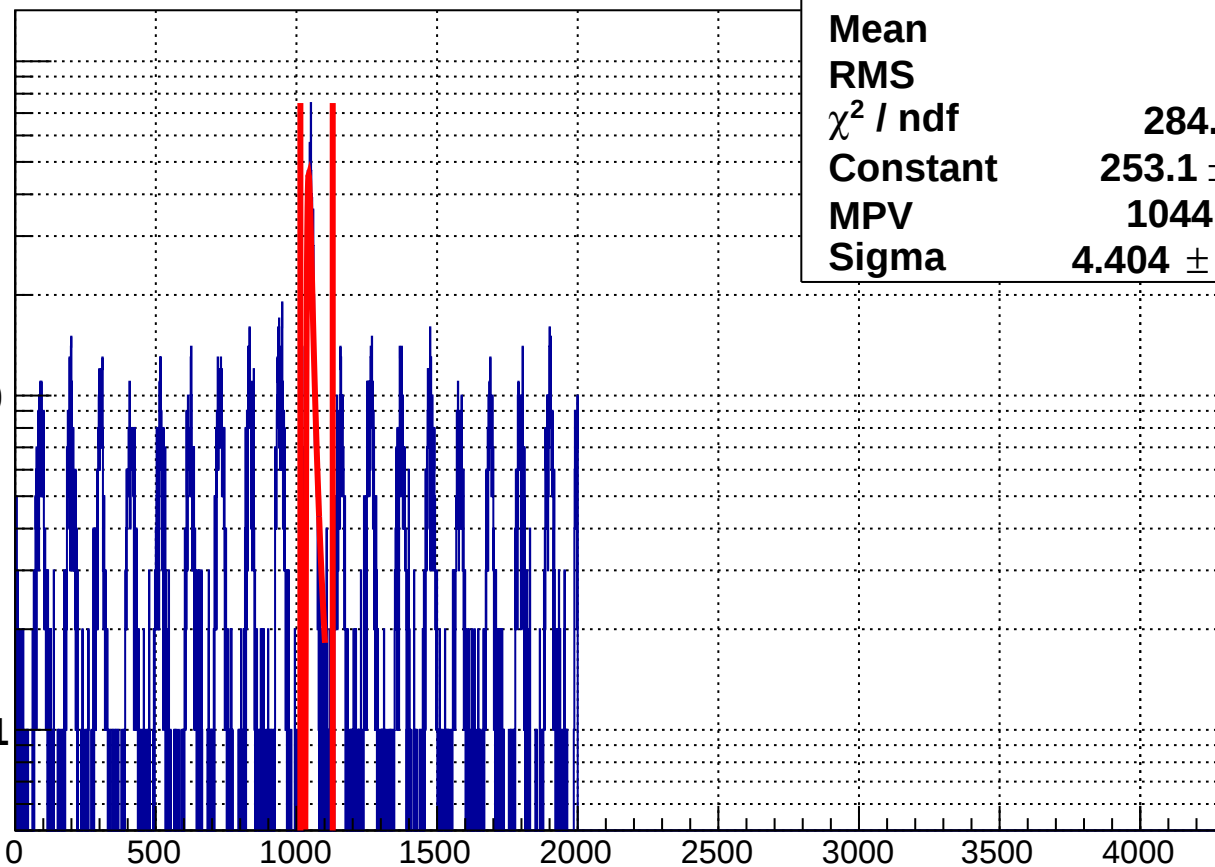
tray_le_59

count

10^2

10

1



Entries	5948
Mean	1023
RMS	502.8
χ^2 / ndf	284.3 / 72
Constant	253.1 ± 13.4
MPV	1044 ± 0.4
Sigma	4.404 ± 0.210

LE time (ns)

Run# 18101010

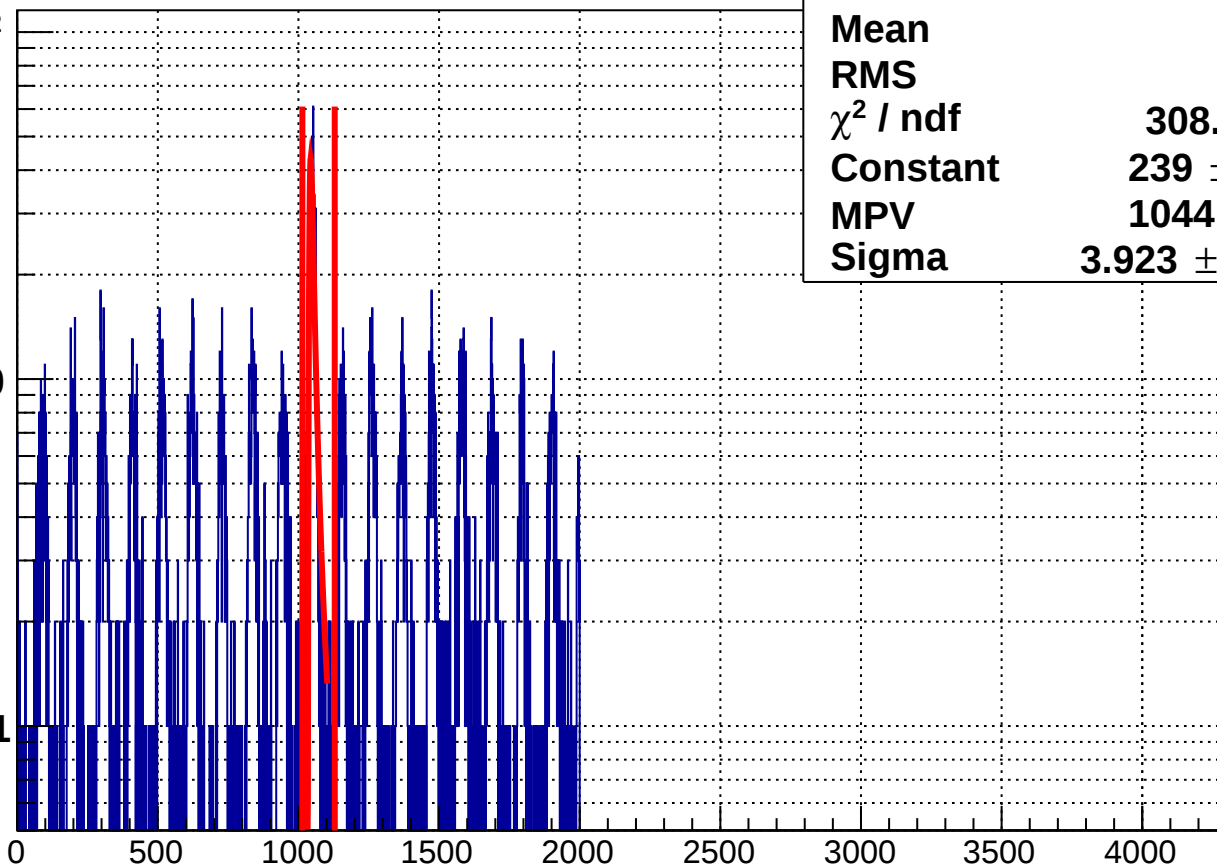
tray_le_60

count

10^2

10

1



LE time (ns)

Run# 18101010

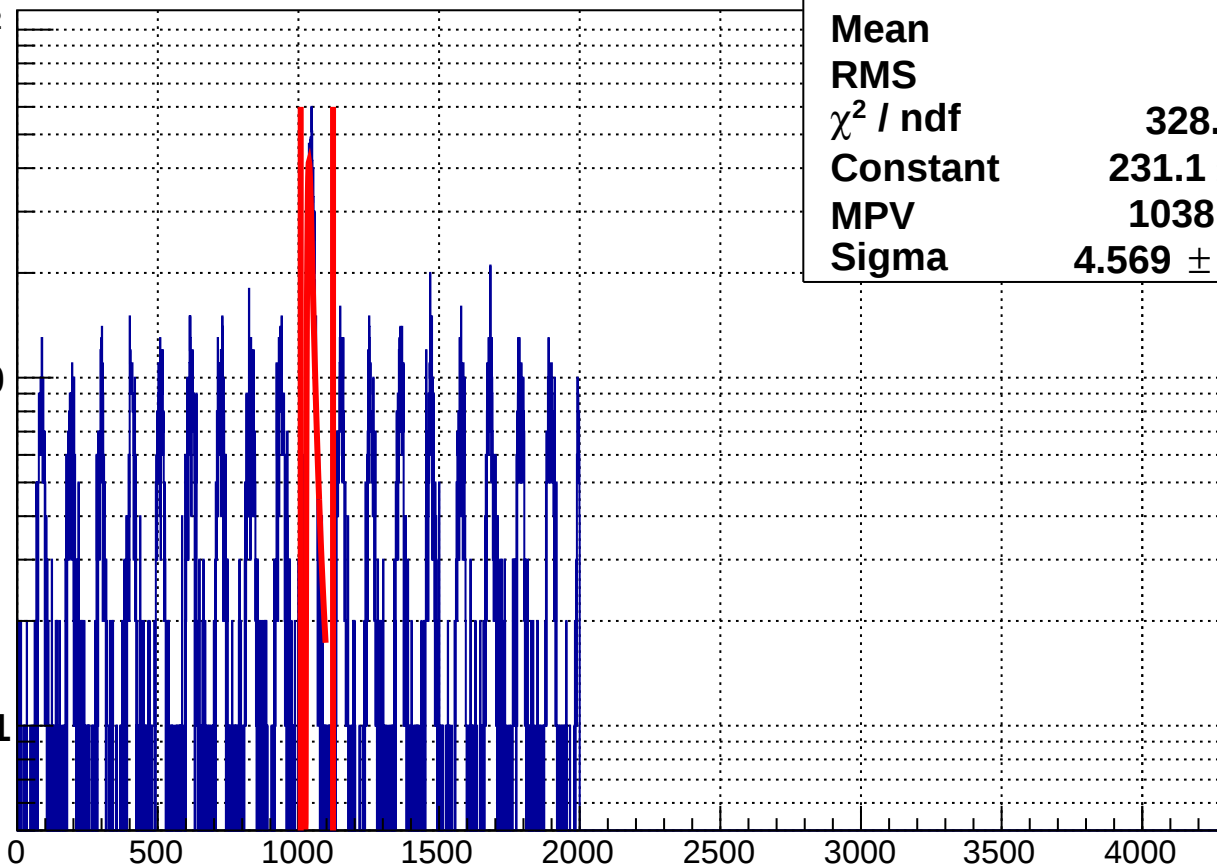
tray_le_61

count

10^2

10

1



Entries

6069

Mean

1028

RMS

505.2

χ^2 / ndf

328.2 / 78

Constant

231.1 ± 11.1

MPV

1038 ± 0.4

Sigma

4.569 ± 0.184

LE time (ns)

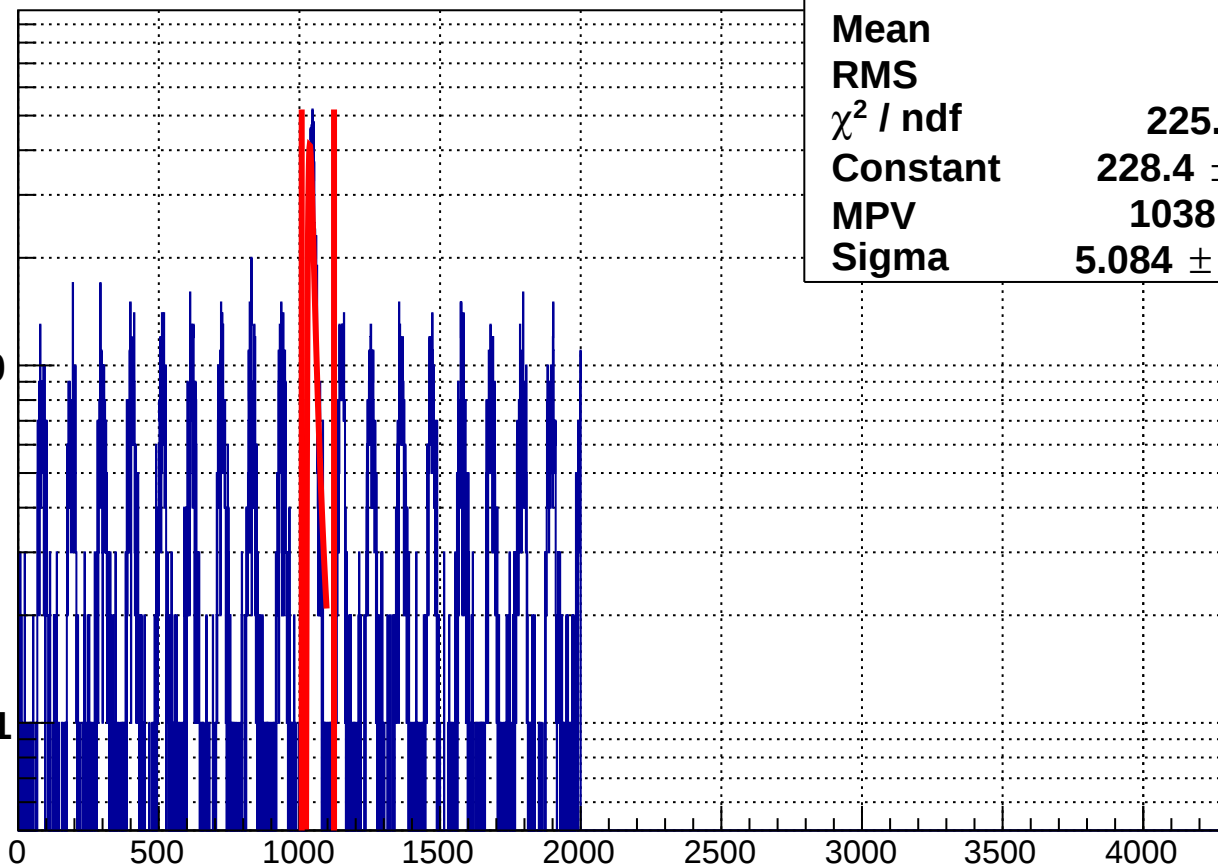
Run# 18101010

tray_le_62

count

10

1



Entries

5979

Mean

1026

RMS

509.8

χ^2 / ndf

225.7 / 69

Constant

228.4 ± 10.3

MPV

1038 ± 0.4

Sigma

5.084 ± 0.193

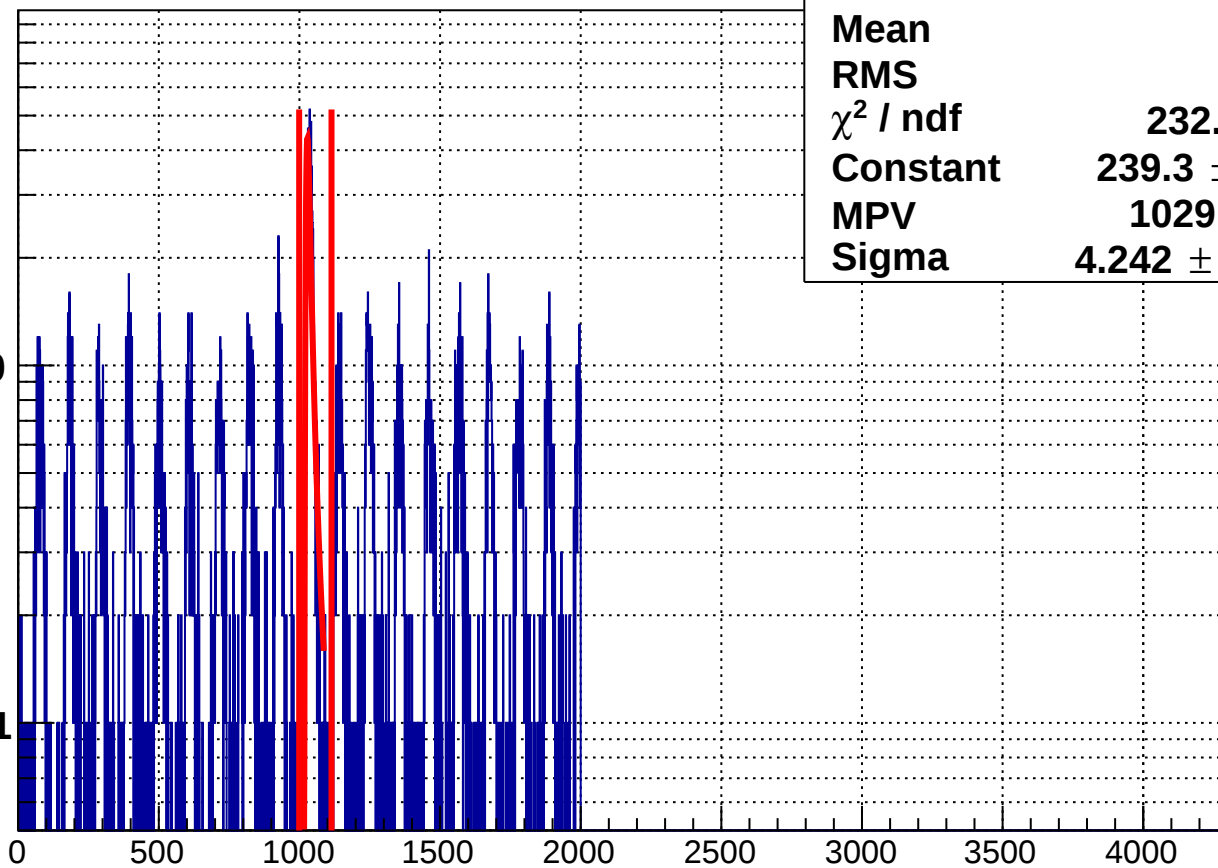
Run# 18101010

tray_le_63

count

10

1



Entries	5997
Mean	1030
RMS	520.6
χ^2 / ndf	232.5 / 72
Constant	239.3 ± 11.6
MPV	1029 ± 0.3
Sigma	4.242 ± 0.170

LE time (ns)

Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

tray_le_64

Entries	5996
Mean	1020
RMS	514.9
χ^2 / ndf	222.2 / 72
Constant	249.8 ± 12.4
MPV	1030 ± 0.4
Sigma	4.589 ± 0.201

Run# 18101010

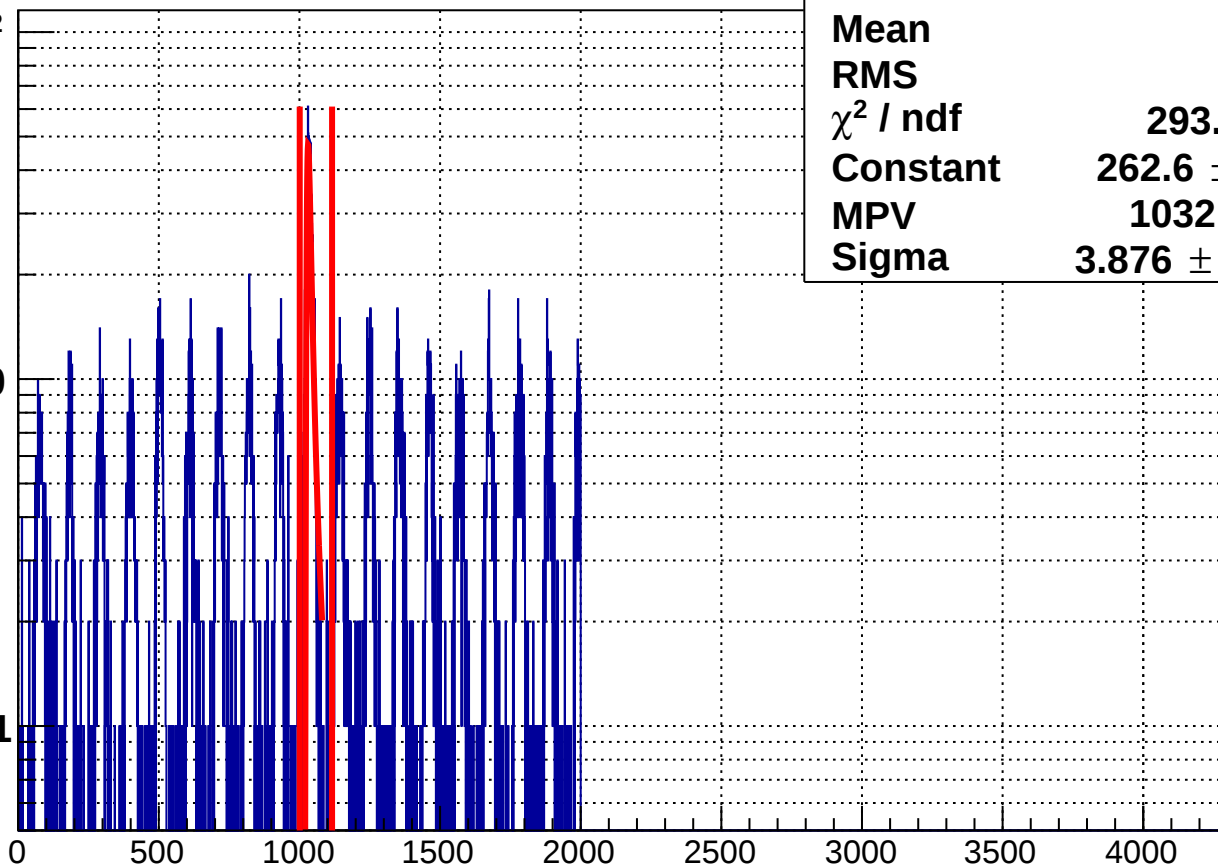
tray_le_65

count

10^2

10

1



Entries	6037
Mean	1042
RMS	510.1
χ^2 / ndf	293.8 / 72
Constant	262.6 ± 13.5
MPV	1032 ± 0.3
Sigma	3.876 ± 0.173

LE time (ns)

Run# 18101010

tray_le_66

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

6084

Mean

1024

RMS

505.1

χ^2 / ndf

244.1 / 77

Constant

250.1 ± 12.4

MPV

1035 ± 0.4

Sigma

4.801 ± 0.213

Run# 18101010

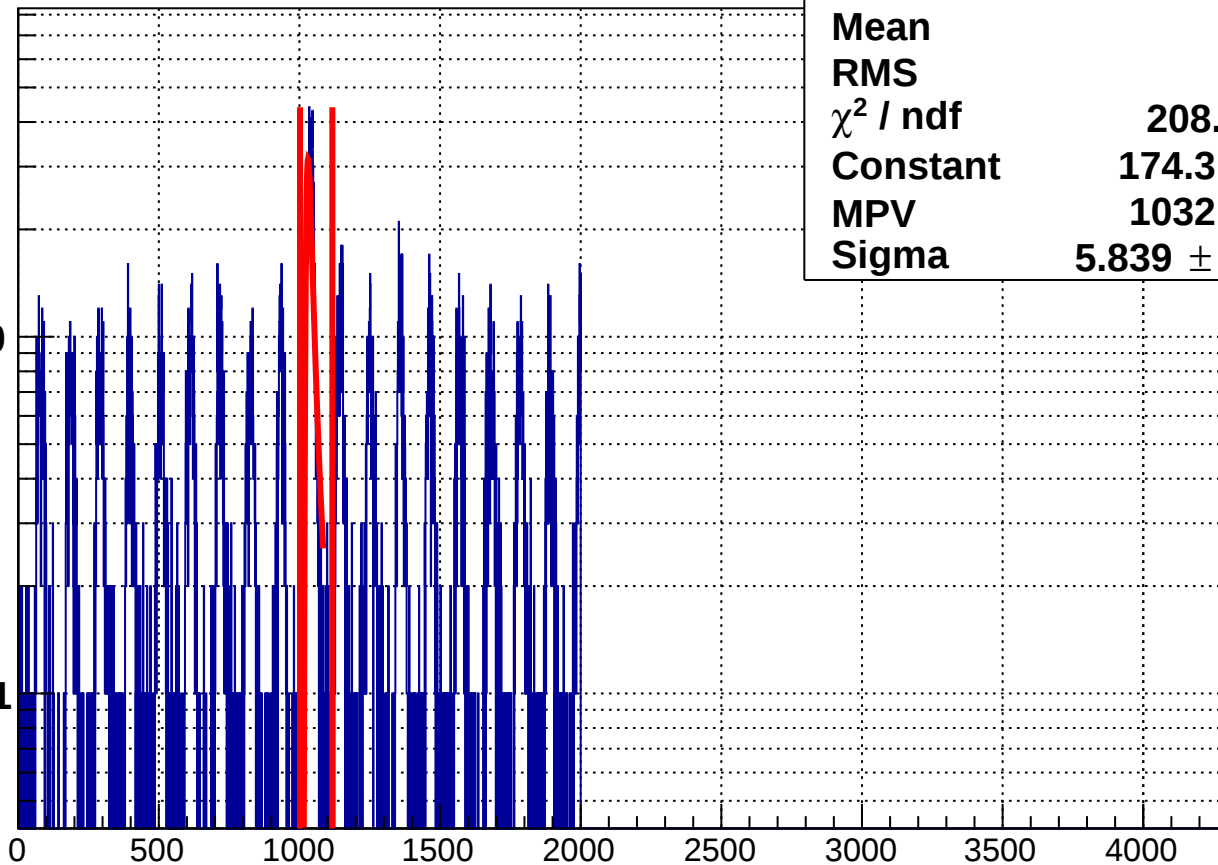
tray_le_67

count

10

1

Entries	5912
Mean	1026
RMS	519
χ^2 / ndf	208.4 / 73
Constant	174.3 ± 7.9
MPV	1032 ± 0.5
Sigma	5.839 ± 0.216



LE time (ns)

Run# 18101010

tray_le_68

count

10^2

10

1

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

Entries	5804
Mean	1014
RMS	516.9
χ^2 / ndf	311.2 / 63
Constant	190.3 ± 9.3
MPV	1035 ± 0.5
Sigma	5.205 ± 0.213

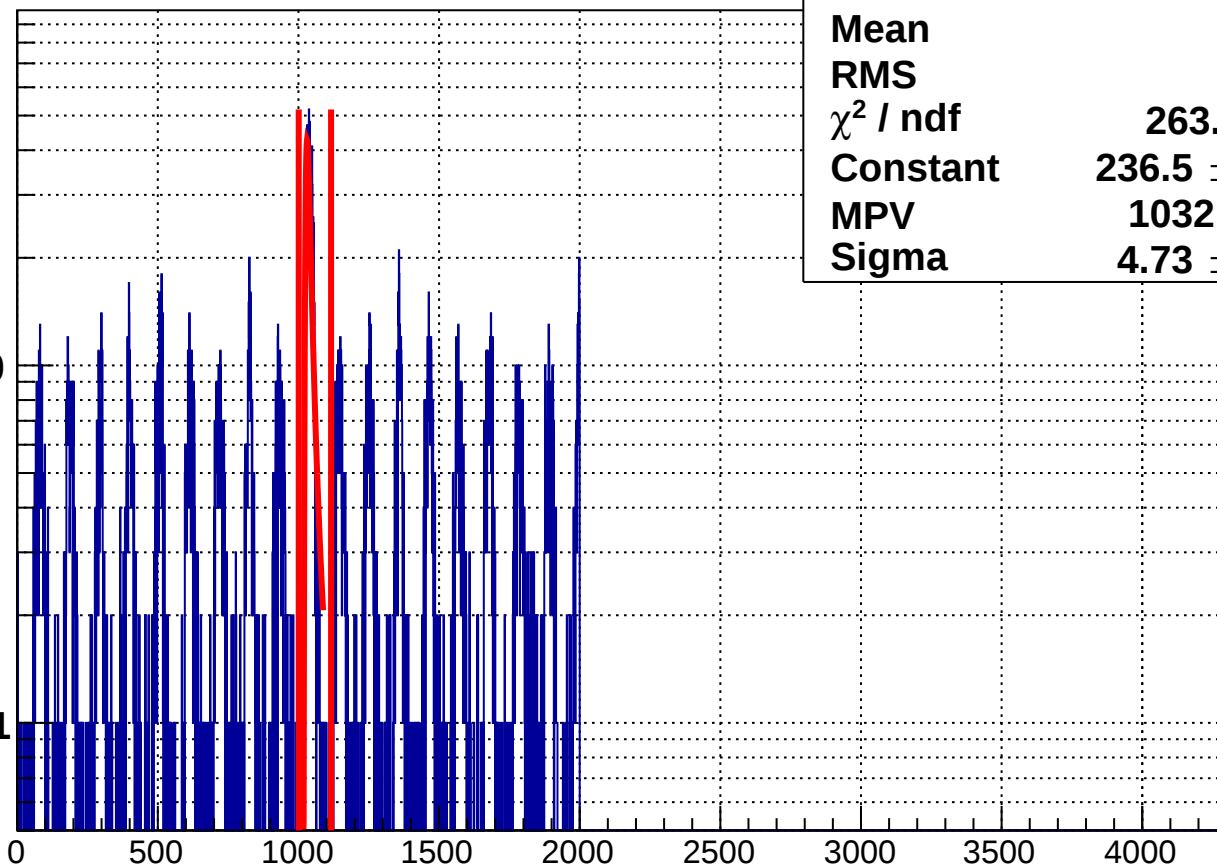
Run# 18101010

tray_le_69

count

10

1



Entries

5822

Mean

1035

RMS

515.2

χ^2 / ndf

263.1 / 70

Constant

236.5 ± 10.6

MPV

1032 ± 0.4

Sigma

4.73 ± 0.17

LE time (ns)

Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

tray_le_70

Entries	5985
Mean	1020
RMS	513.4
χ^2 / ndf	334.5 / 74
Constant	228.6 ± 10.6
MPV	1034 ± 0.4
Sigma	4.492 ± 0.166

Run# 18101010

tray_le_71

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5596

Mean

1017

RMS

507.4

χ^2 / ndf

248.7 / 68

Constant

230 ± 10.2

MPV

1034 ± 0.4

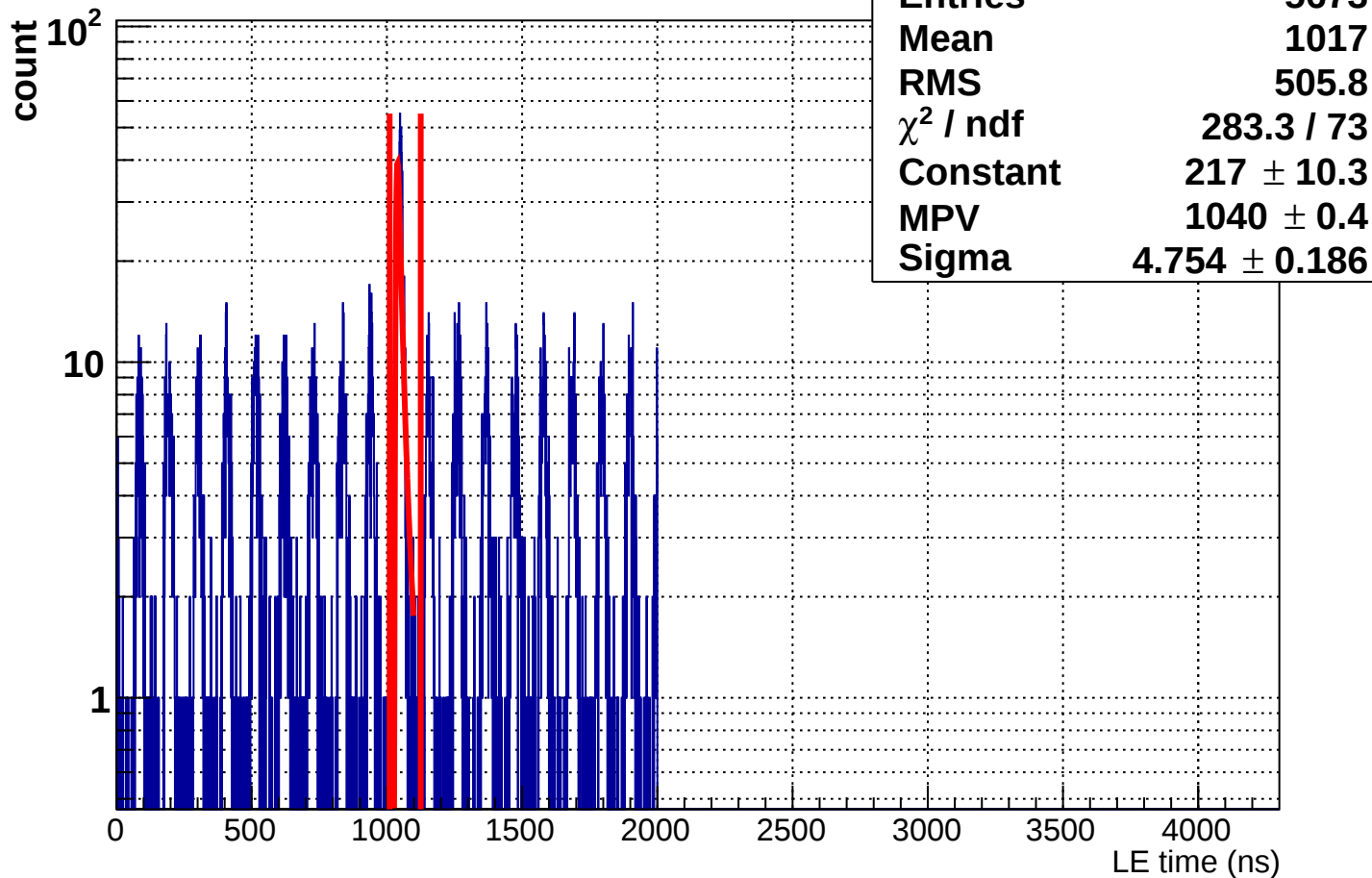
Sigma

4.579 ± 0.158

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Run# 18101010

tray_le_72



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Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

tray_le_73

Entries

5744

Mean

1003

RMS

504.4

χ^2 / ndf

299.8 / 69

Constant

206.6 ± 9.3

MPV

1042 ± 0.4

Sigma

5.353 ± 0.199

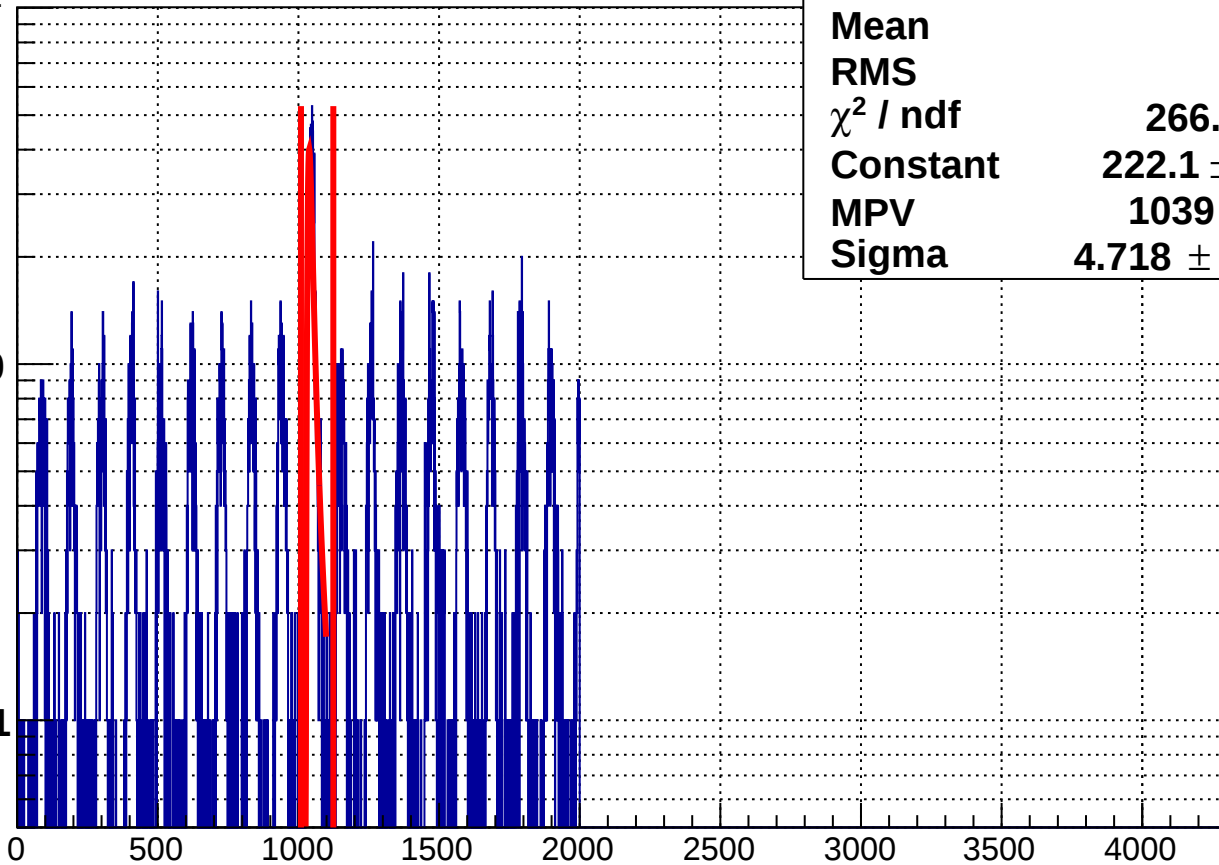
Run# 18101010

count

10^2

10

1



tray_le_74

Entries	6009
Mean	1041
RMS	510.3
χ^2 / ndf	266.7 / 74
Constant	222.1 ± 11.0
MPV	1039 ± 0.4
Sigma	4.718 ± 0.200

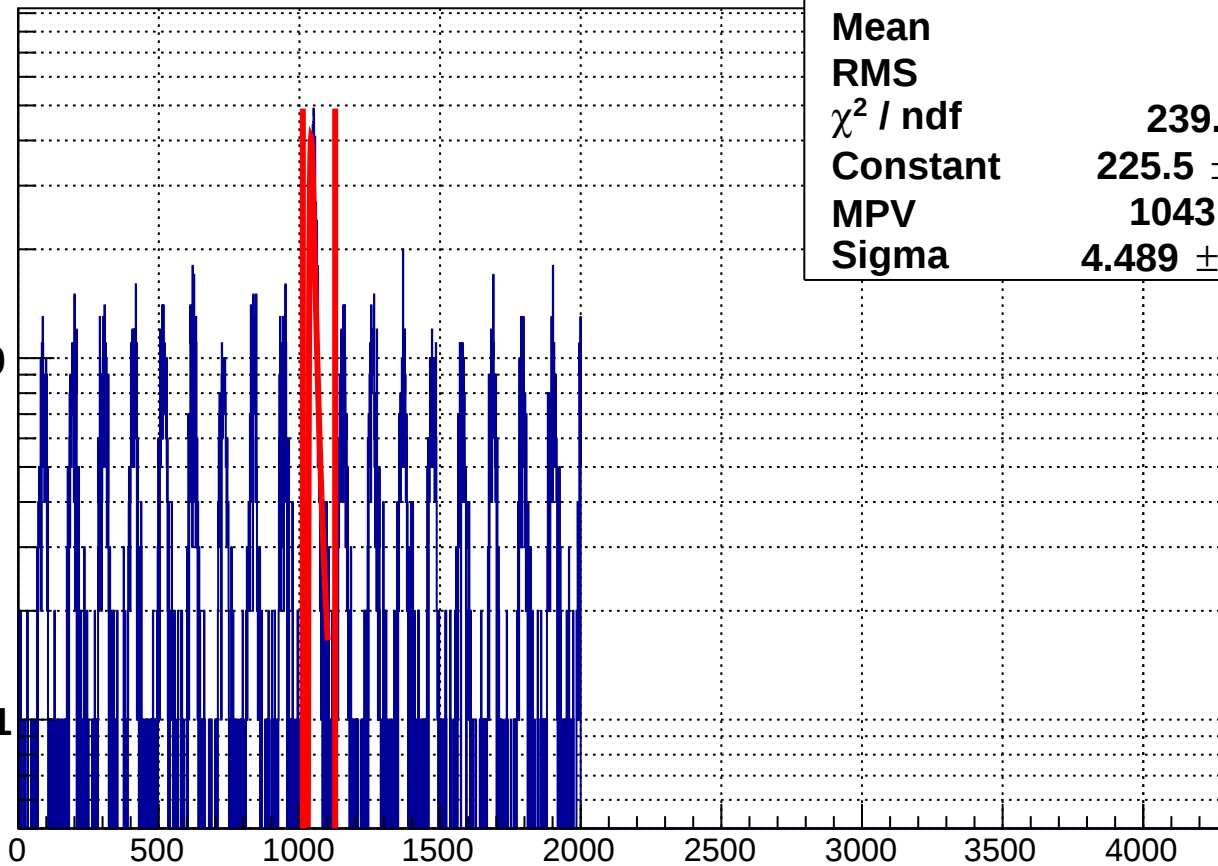
Run# 18101010

tray_le_75

count

10

1



Entries	5852
Mean	1004
RMS	509.9
χ^2 / ndf	239.1 / 75
Constant	225.5 ± 11.7
MPV	1043 ± 0.4
Sigma	4.489 ± 0.201

Run# 18101010

count

10^2

10

1

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

tray_le_76	
Entries	5519
Mean	1041
RMS	507.9
χ^2 / ndf	304.5 / 69
Constant	220.4 ± 12.3
MPV	1041 ± 0.5
Sigma	4.298 ± 0.212

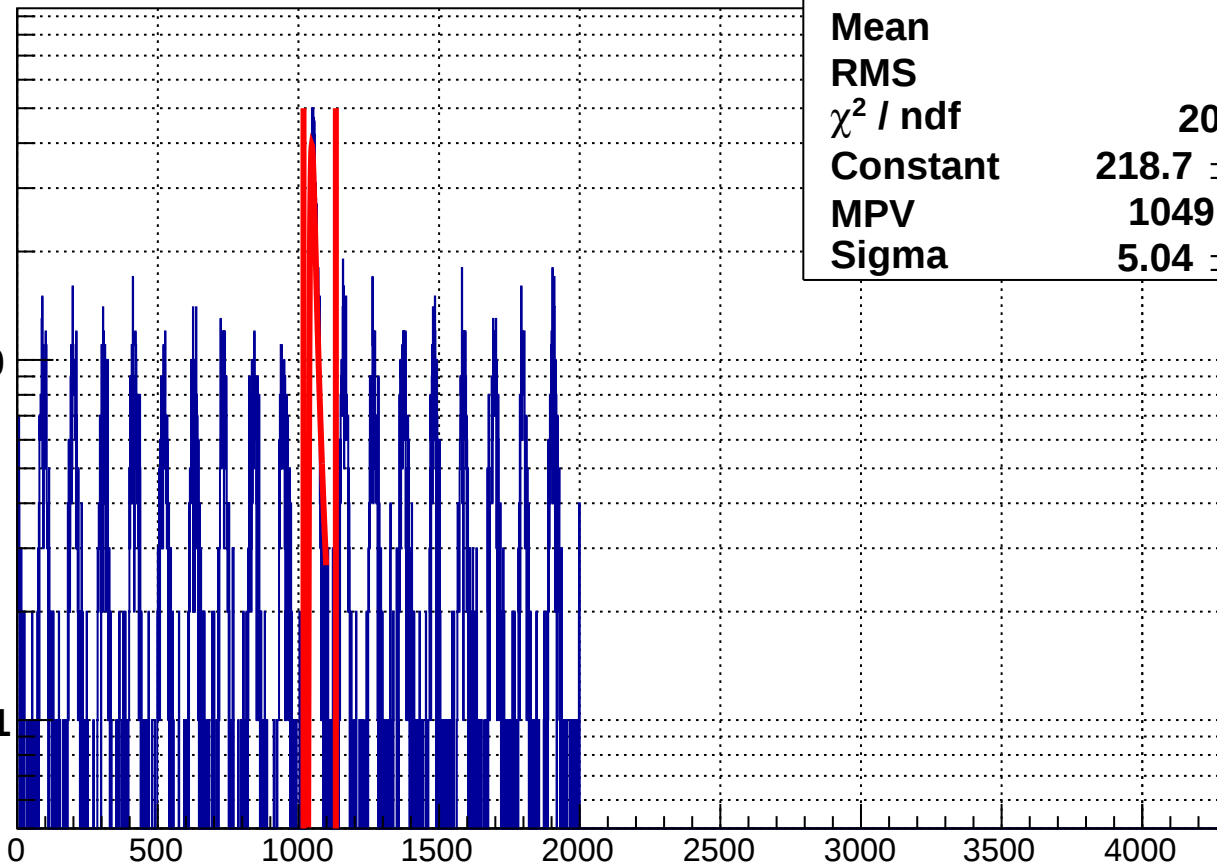
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Run# 18101010

count

10

1



tray_le_77

Entries	5728
Mean	1020
RMS	518.1
χ^2 / ndf	202 / 68
Constant	218.7 ± 11.5
MPV	1049 ± 0.4
Sigma	5.04 ± 0.25

Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5977

Mean

1016

RMS

503.2

χ^2 / ndf

222.2 / 70

Constant

266.4 ± 12.8

MPV

1050 ± 0.3

Sigma

4.265 ± 0.175

tray_le_78

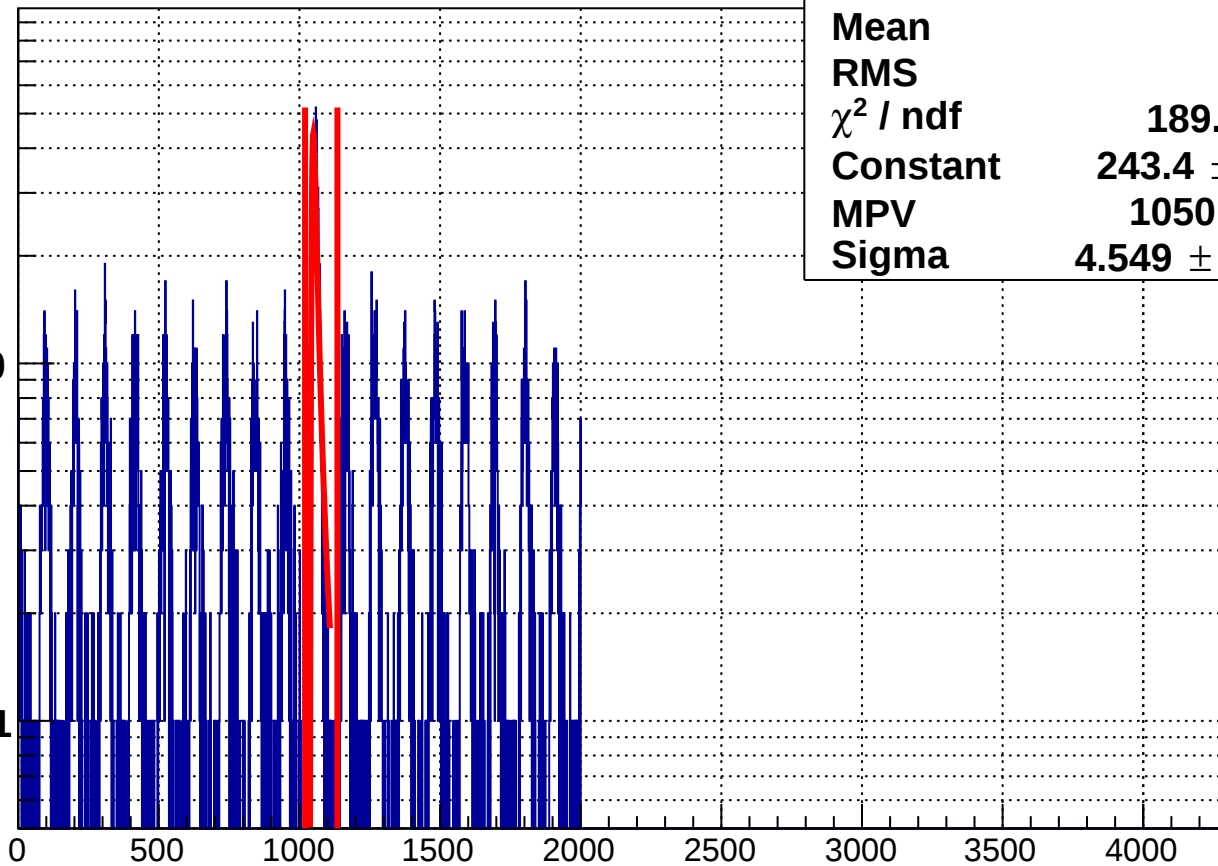
Run# 18101010

tray_le_79

count

10

1

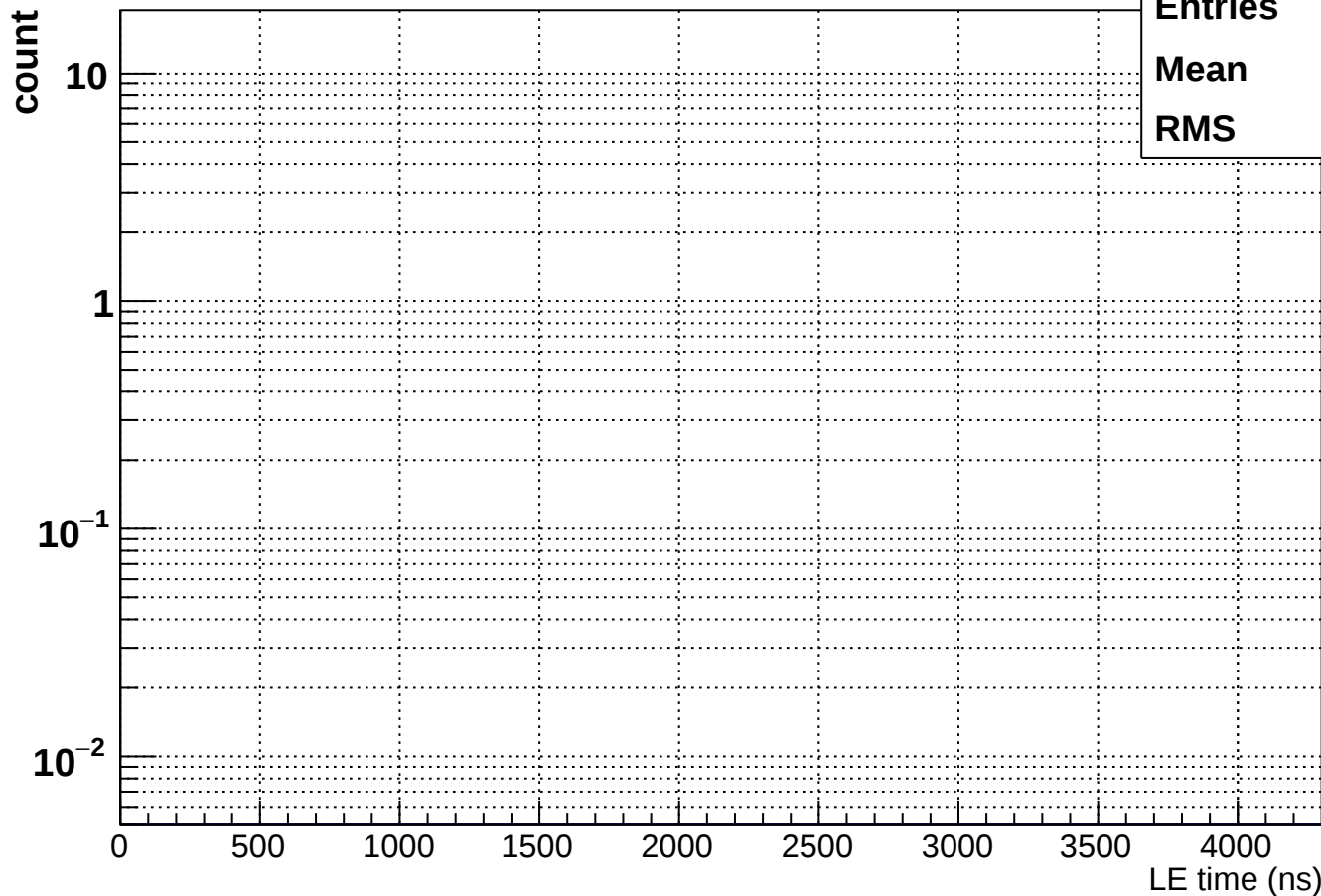


Entries	5773
Mean	1013
RMS	513.8
χ^2 / ndf	189.4 / 69
Constant	243.4 ± 12.0
MPV	1050 ± 0.3
Sigma	4.549 ± 0.197

Run# 18101010

tray_le_80

Entries	0
Mean	0
RMS	0



Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

tray_le_81

Entries	5759
Mean	1008
RMS	511.8
χ^2 / ndf	235.4 / 67
Constant	237.5 ± 12.7
MPV	1050 ± 0.4
Sigma	4.382 ± 0.210

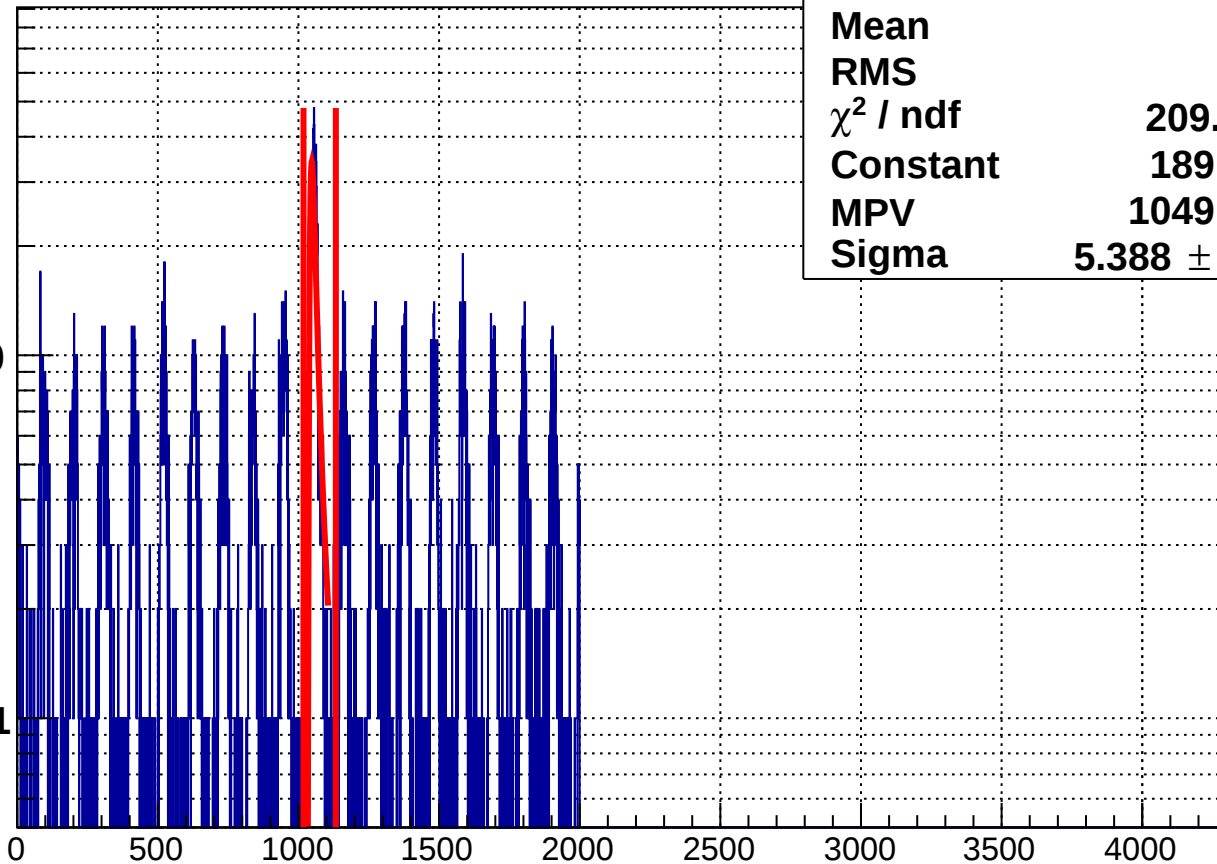
Run# 18101010

tray_le_82

count

10

1



Entries

5705

Mean

1019

RMS

505.5

χ^2 / ndf

209.3 / 69

Constant

189 ± 9.0

MPV

1049 ± 0.4

Sigma

5.388 ± 0.219

Run# 18101010

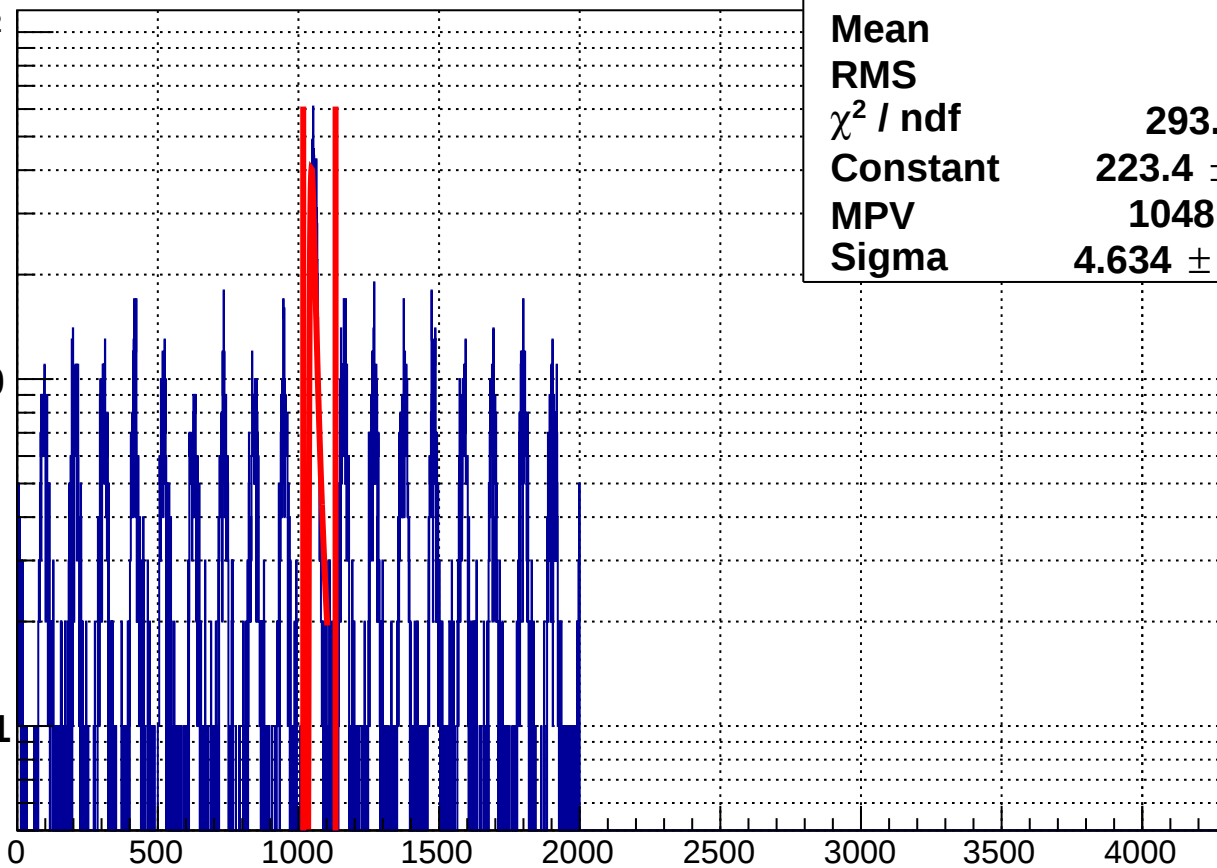
tray_le_83

count

10^2

10

1



Entries	5706
Mean	1017
RMS	504
χ^2 / ndf	293.9 / 67
Constant	223.4 ± 10.9
MPV	1048 ± 0.4
Sigma	4.634 ± 0.190

LE time (ns)

Run# 18101010

tray_le_84

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5857

Mean

1016

RMS

499.4

χ^2 / ndf

255.2 / 66

Constant

237.8 ± 12.0

MPV

1047 ± 0.4

Sigma

4.598 ± 0.205

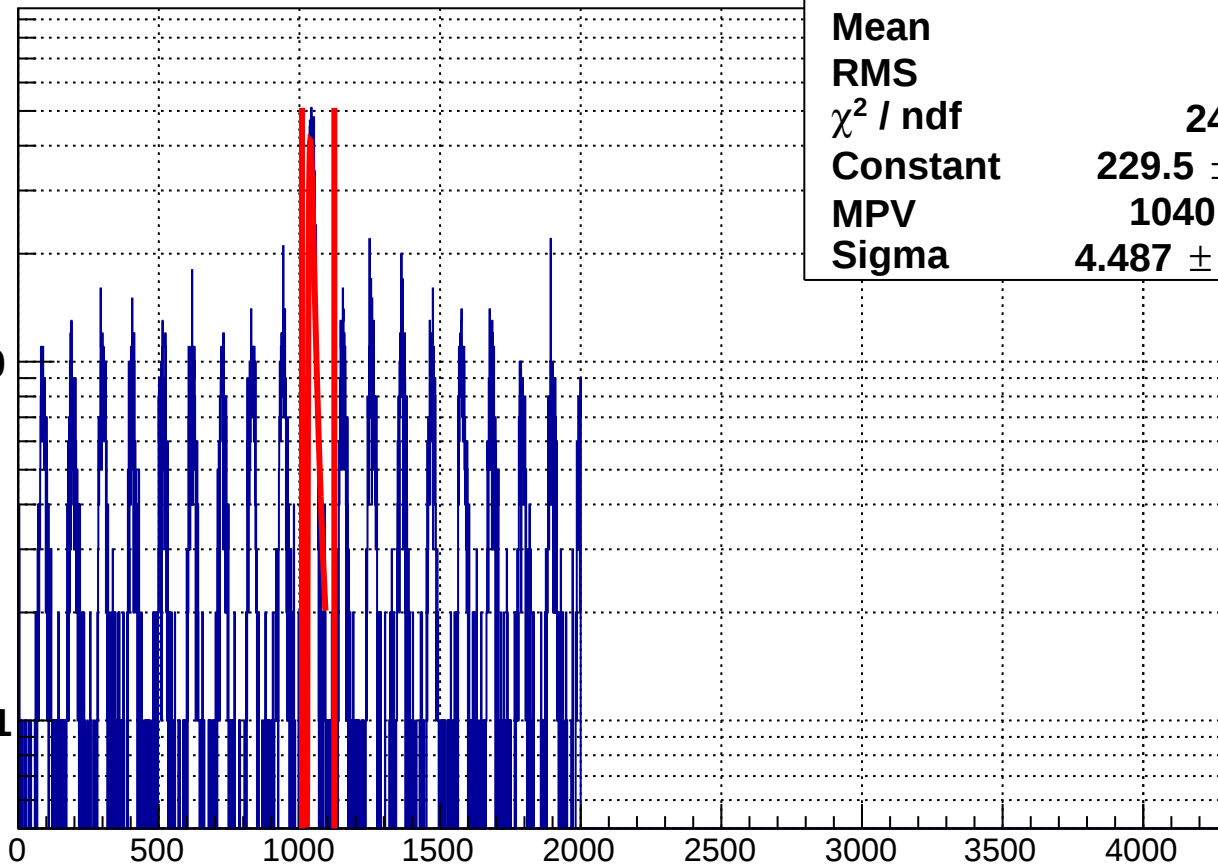
Run# 18101010

tray_le_85

count

10

1



Entries	5818
Mean	1023
RMS	509.4
χ^2 / ndf	245 / 71
Constant	229.5 ± 11.5
MPV	1040 ± 0.4
Sigma	4.487 ± 0.194

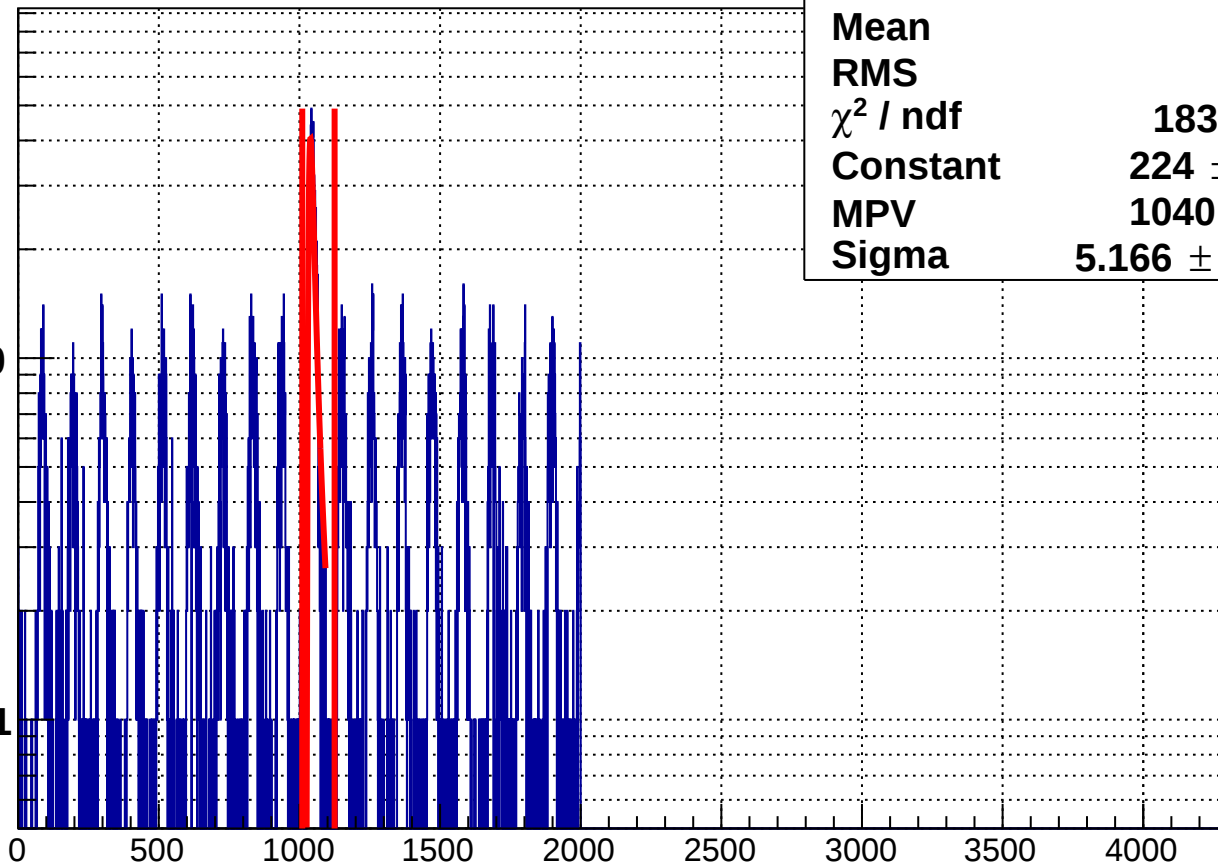
Run# 18101010

tray_le_86

count

10

1



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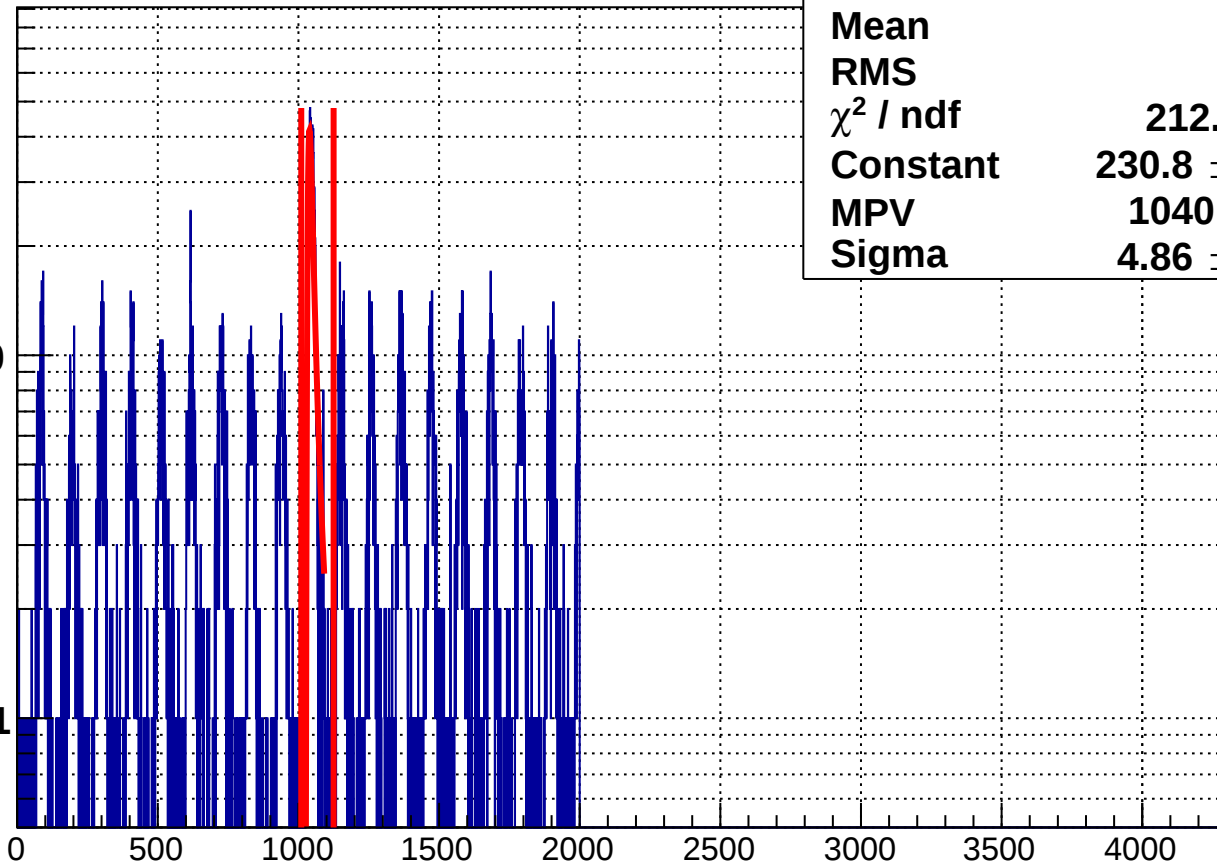
Run# 18101010

tray_le_87

count

10

1



LE time (ns)

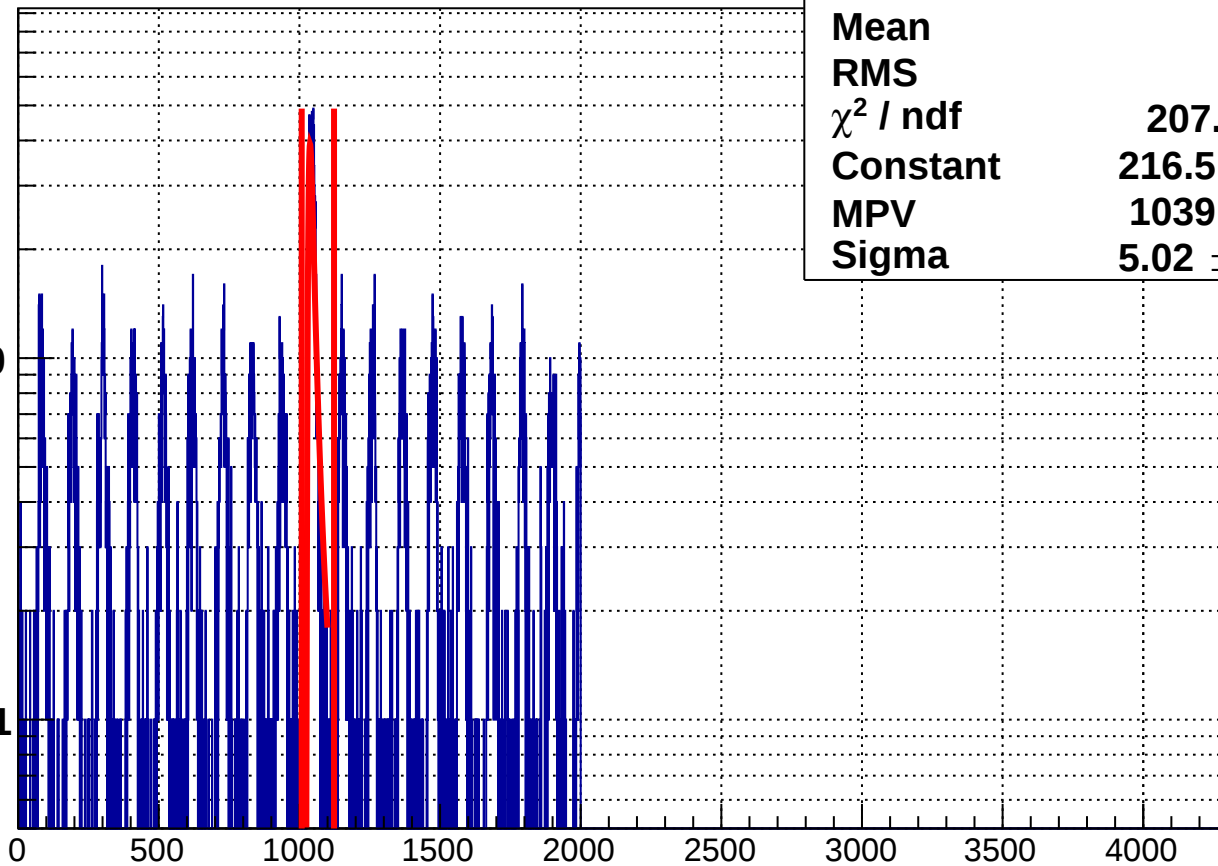
Run# 18101010

tray_le_88

count

10

1



tray_le_88	
Entries	5783
Mean	1010
RMS	515.2
χ^2 / ndf	207.1 / 66
Constant	216.5 ± 9.7
MPV	1039 ± 0.4
Sigma	5.02 ± 0.18

LE time (ns)

Run# 18101010

tray_le_89

count

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5736

Mean

1021

RMS

505.6

χ^2 / ndf

284.5 / 71

Constant

236.6 ± 10.9

MPV

1039 ± 0.4

Sigma

4.54 ± 0.17

Run# 18101010

count

10^2

10

1

0 500 1000 1500 2000 2500 3000 3500 4000

LE time (ns)

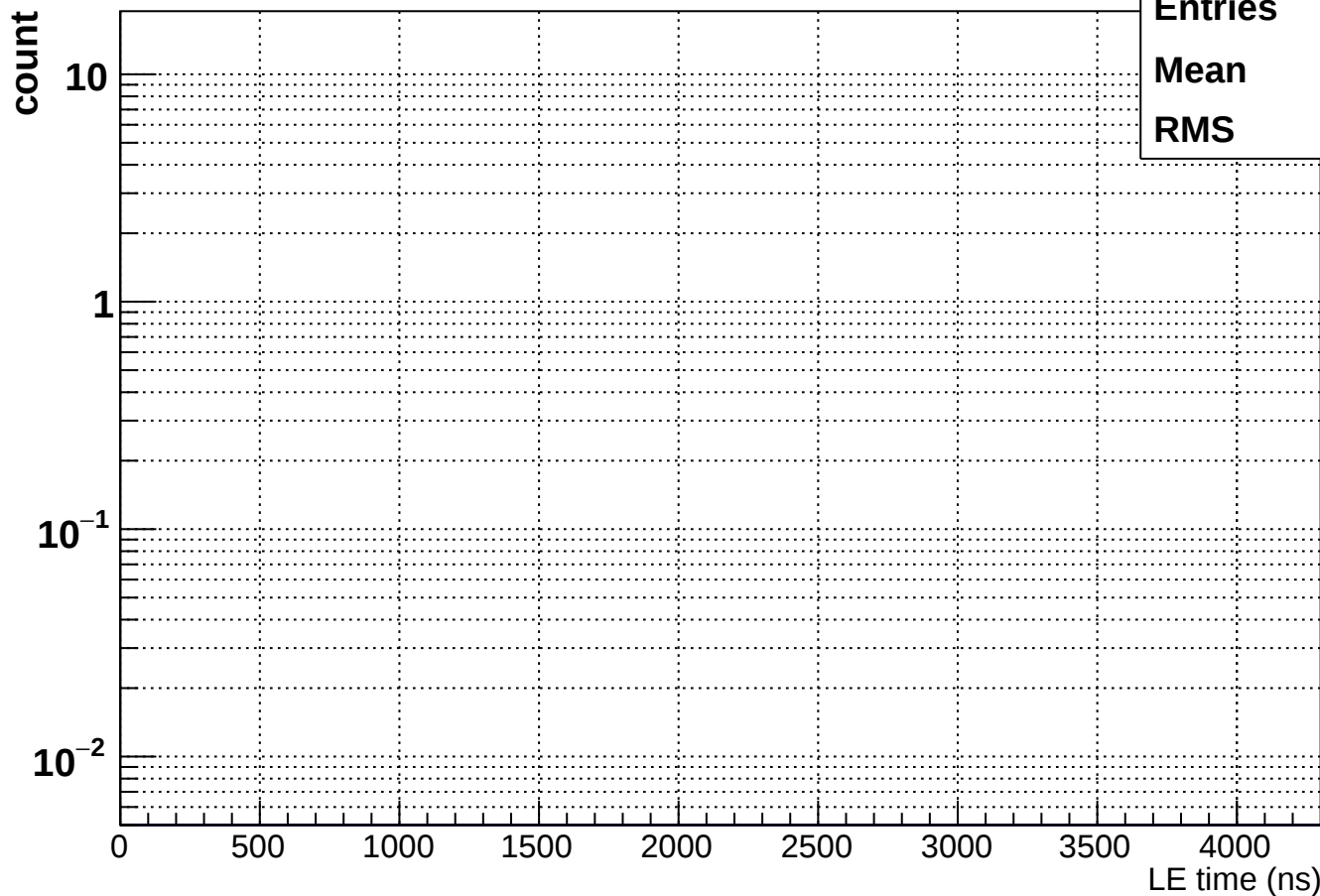
tray_le_90	
Entries	5926
Mean	1018
RMS	516.6
χ^2 / ndf	256.7 / 75
Constant	238.4 ± 11.4
MPV	1033 ± 0.4
Sigma	4.794 ± 0.195

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Run# 18101010

tray_le_91

Entries	0
Mean	0
RMS	0



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Run# 18101010

tray_le_92

count

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5747

Mean

1026

RMS

517.4

χ^2 / ndf

250.7 / 70

Constant

229.7 ± 11.7

MPV

1034 ± 0.4

Sigma

4.469 ± 0.197

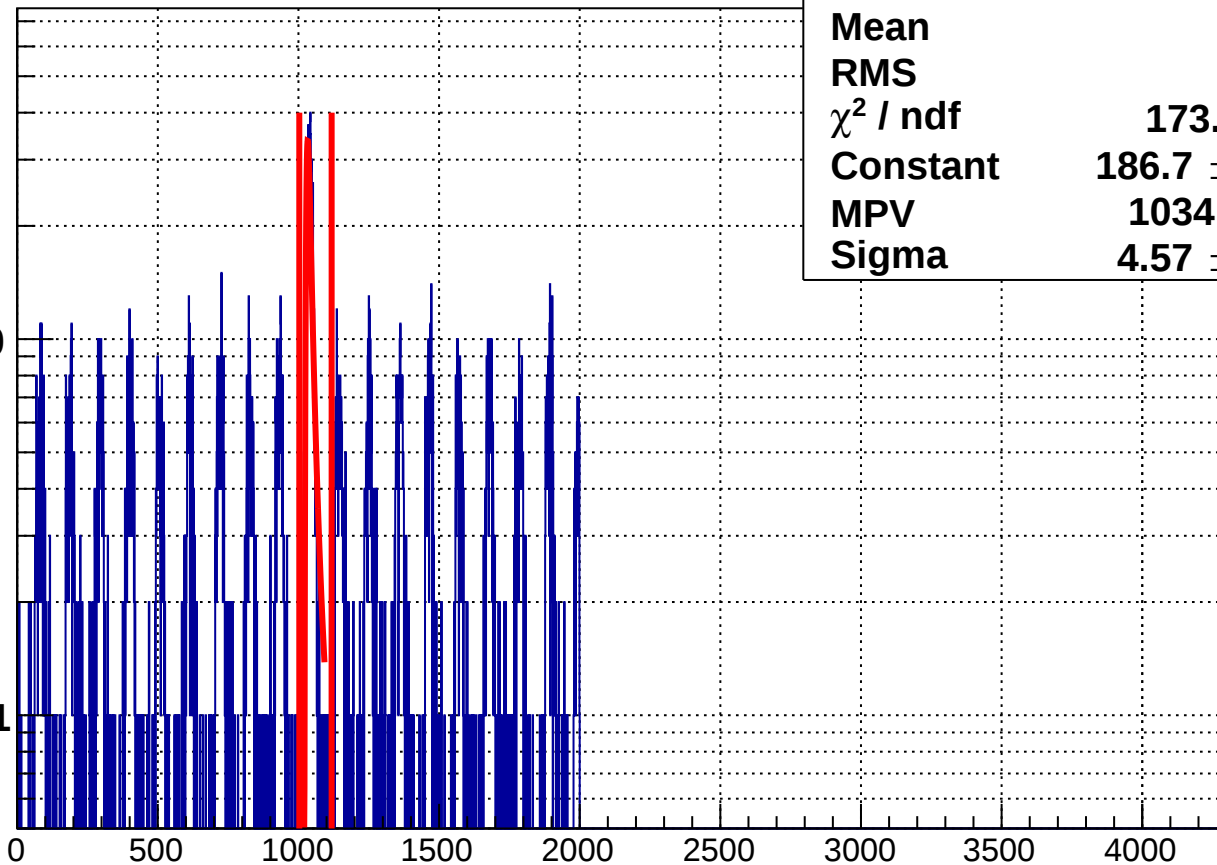
Run# 18101010

tray_le_93

count

10

1



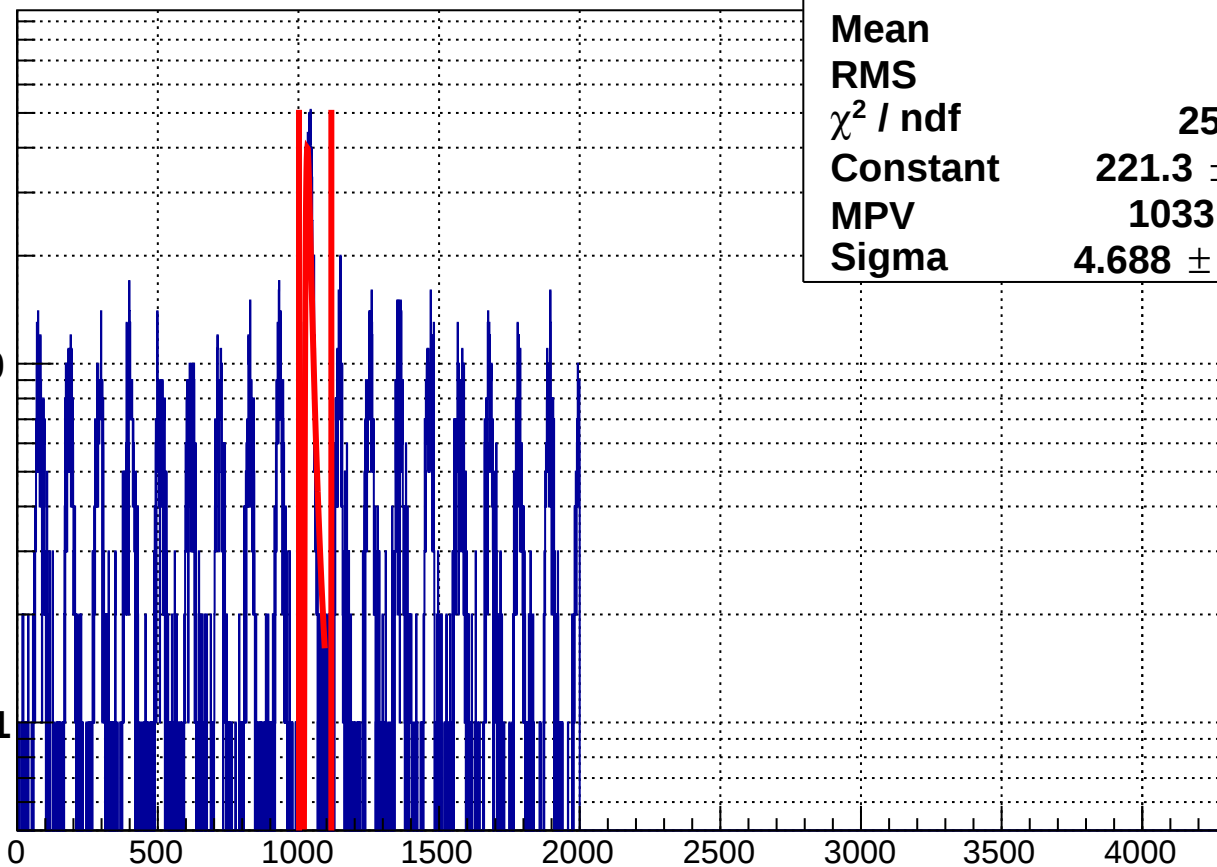
Entries	4416
Mean	1032
RMS	512
χ^2 / ndf	173.1 / 67
Constant	186.7 ± 10.7
MPV	1034 ± 0.4
Sigma	4.57 ± 0.23

Run# 18101010

count

10

1



tray_le_94

Entries	5933
Mean	1013
RMS	516.3
χ^2 / ndf	255 / 72
Constant	221.3 ± 10.2
MPV	1033 ± 0.4
Sigma	4.688 ± 0.173

LE time (ns)

Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5893

Mean

1030

RMS

511.5

χ^2 / nfd

278.9 / 68

Constant

232.5 ± 11.5

MPV

1032 ± 0.4

Sigma

4.801 ± 0.207

tray_le_95

Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5794

Mean

1008

RMS

507.8

χ^2 / ndf

237 / 70

Constant

236.6 ± 10.6

MPV

1045 ± 0.4

Sigma

4.904 ± 0.181

tray_le_96

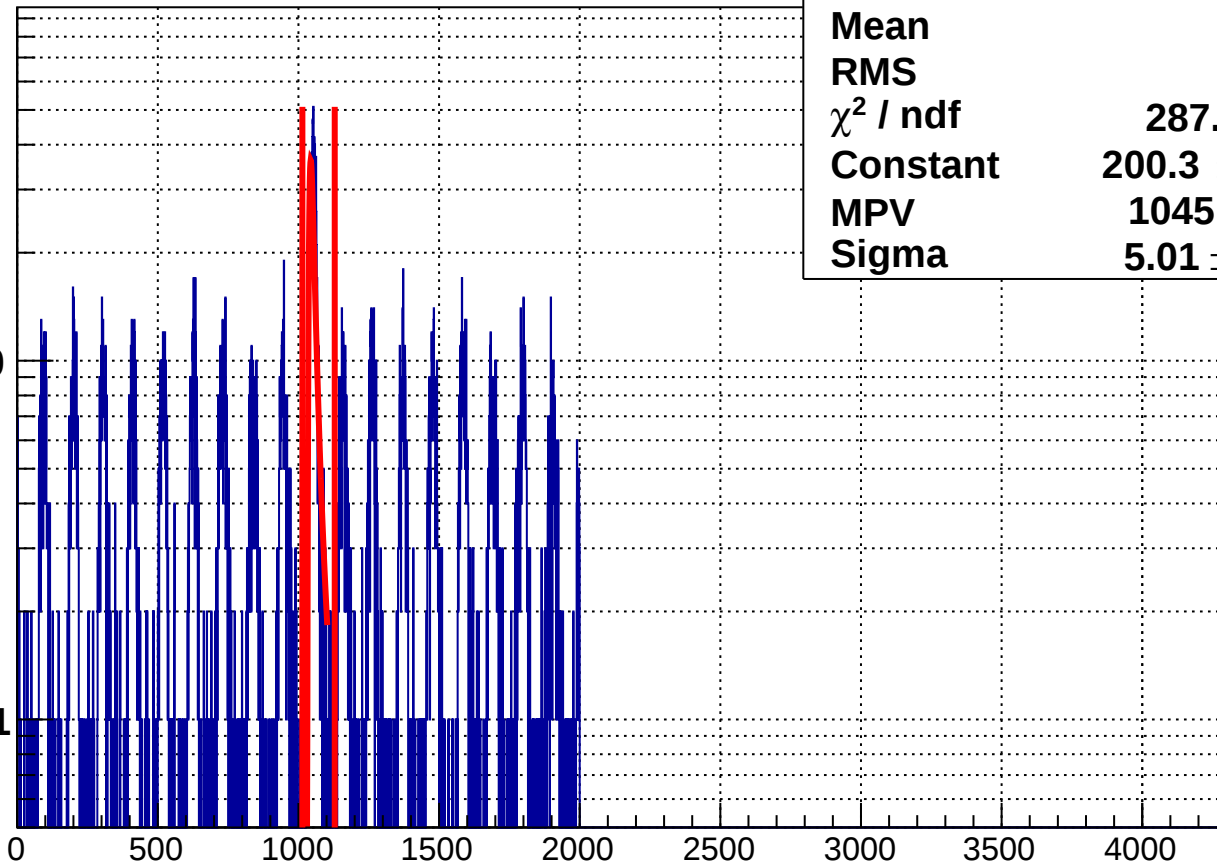
Run# 18101010

tray_le_97

count

10

1



Entries

5882

Mean

1015

RMS

511.3

χ^2 / ndf

287.9 / 67

Constant

200.3 ± 11.1

MPV

1045 ± 0.5

Sigma

5.01 ± 0.25

Run# 18101010

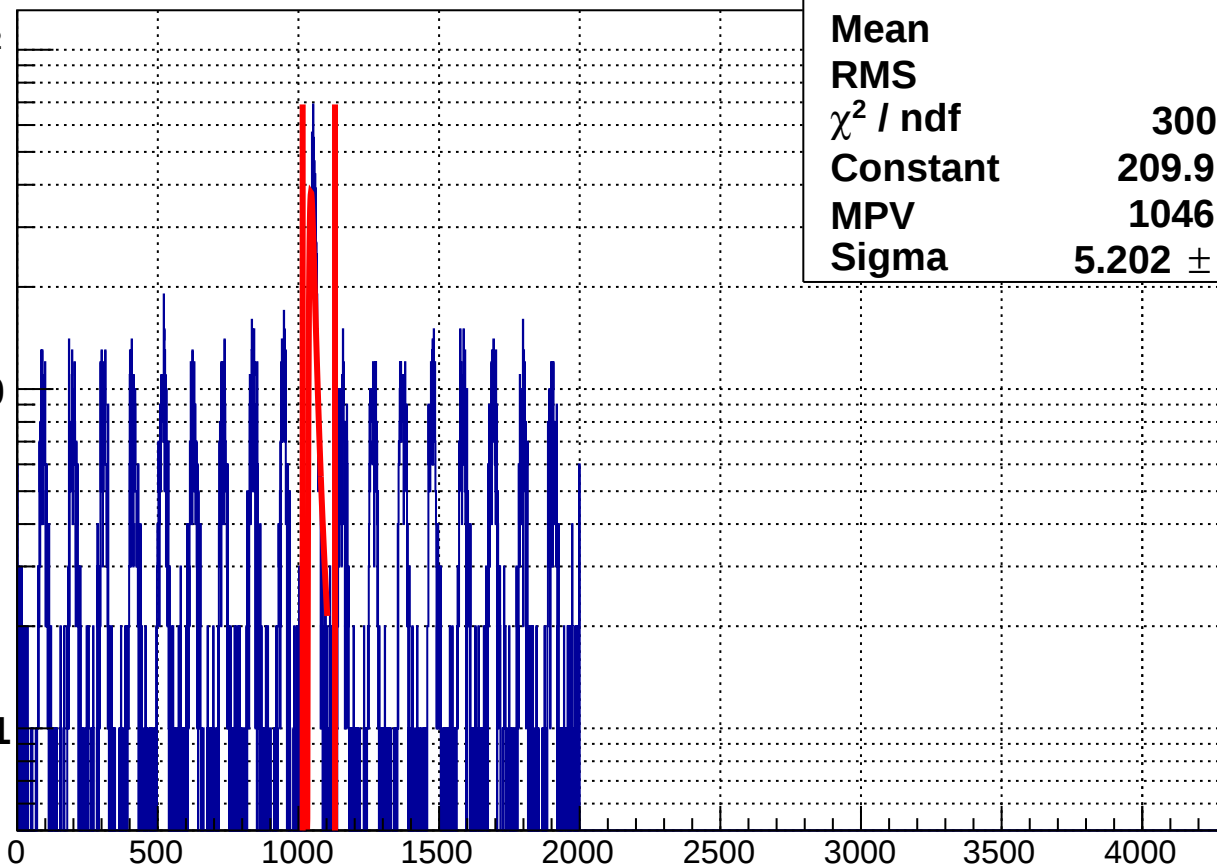
tray_le_98

count

10^2

10

1



Entries	6017
Mean	1025
RMS	507
χ^2 / ndf	300.6 / 71
Constant	209.9 ± 9.9
MPV	1046 ± 0.5
Sigma	5.202 ± 0.208

LE time (ns)

Run# 18101010

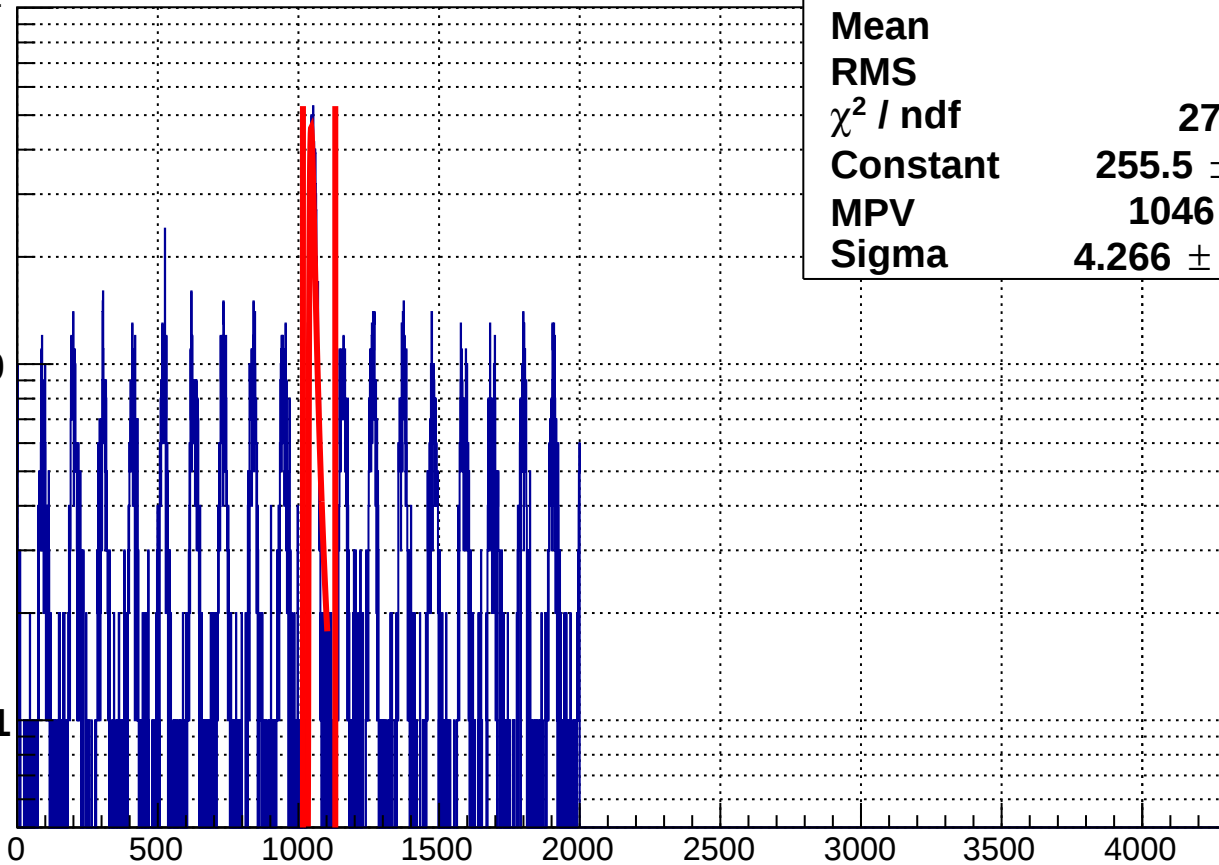
tray_le_99

count

10^2

10

1



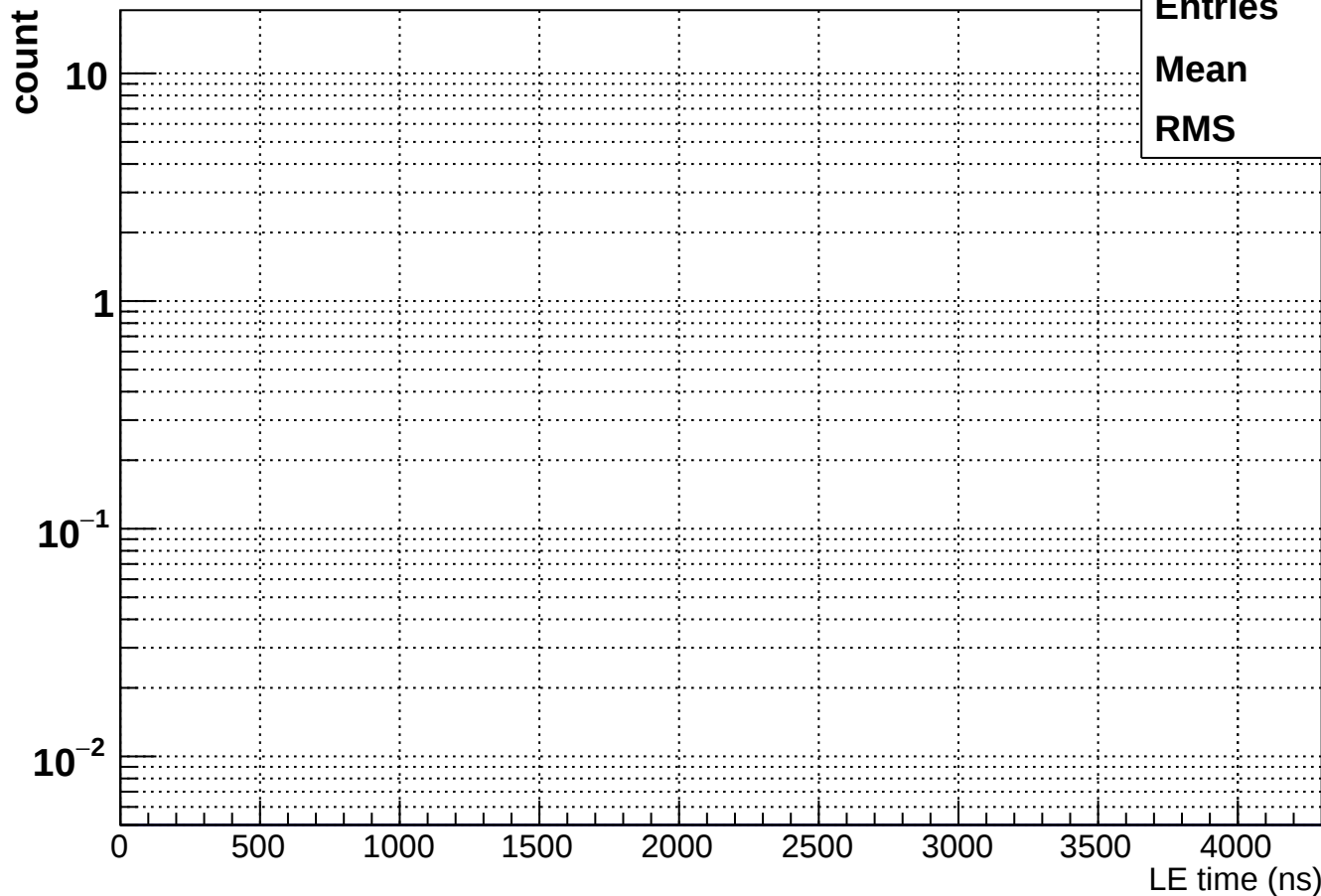
Entries	5851
Mean	1017
RMS	495.2
χ^2 / ndf	276 / 66
Constant	255.5 ± 15.6
MPV	1046 ± 0.5
Sigma	4.266 ± 0.250

LE time (ns)

Run# 18101010

tray_le_100

Entries	0
Mean	0
RMS	0



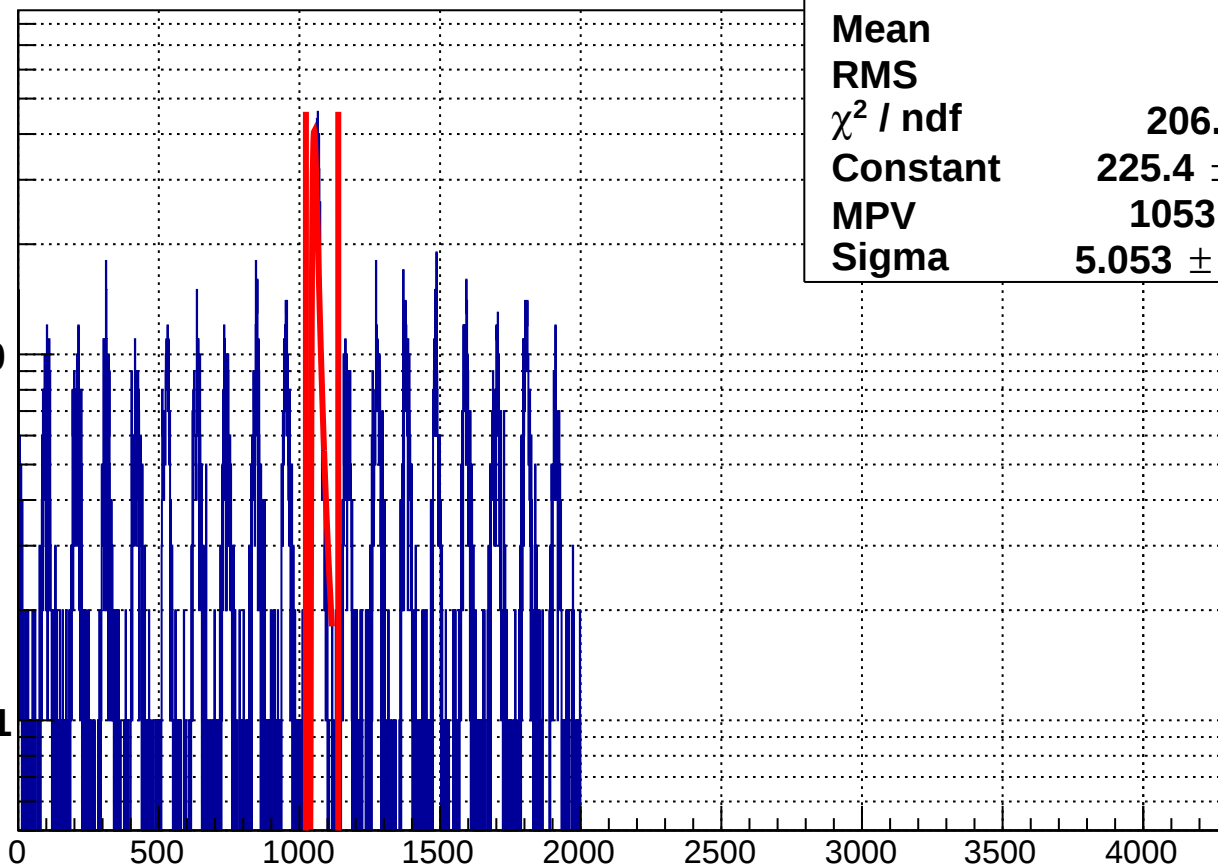
Run# 18101010

tray_le_101

count

10

1



Entries

5720

Mean

1025

RMS

508.5

χ^2 / ndf

206.2 / 66

Constant

225.4 ± 10.0

MPV

1053 ± 0.4

Sigma

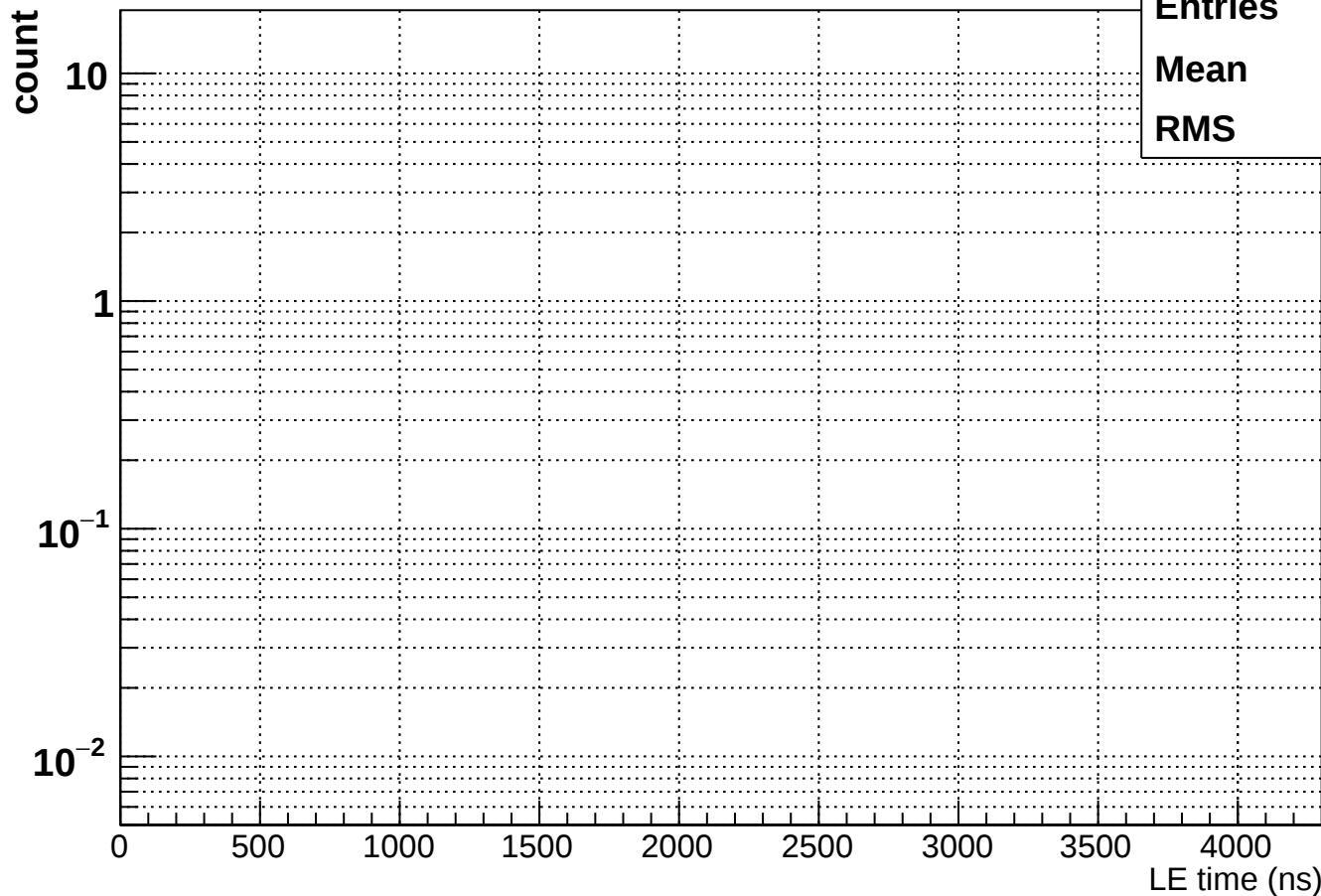
5.053 ± 0.183

LE time (ns)

Run# 18101010

tray_le_102

Entries	0
Mean	0
RMS	0



Run# 18101010

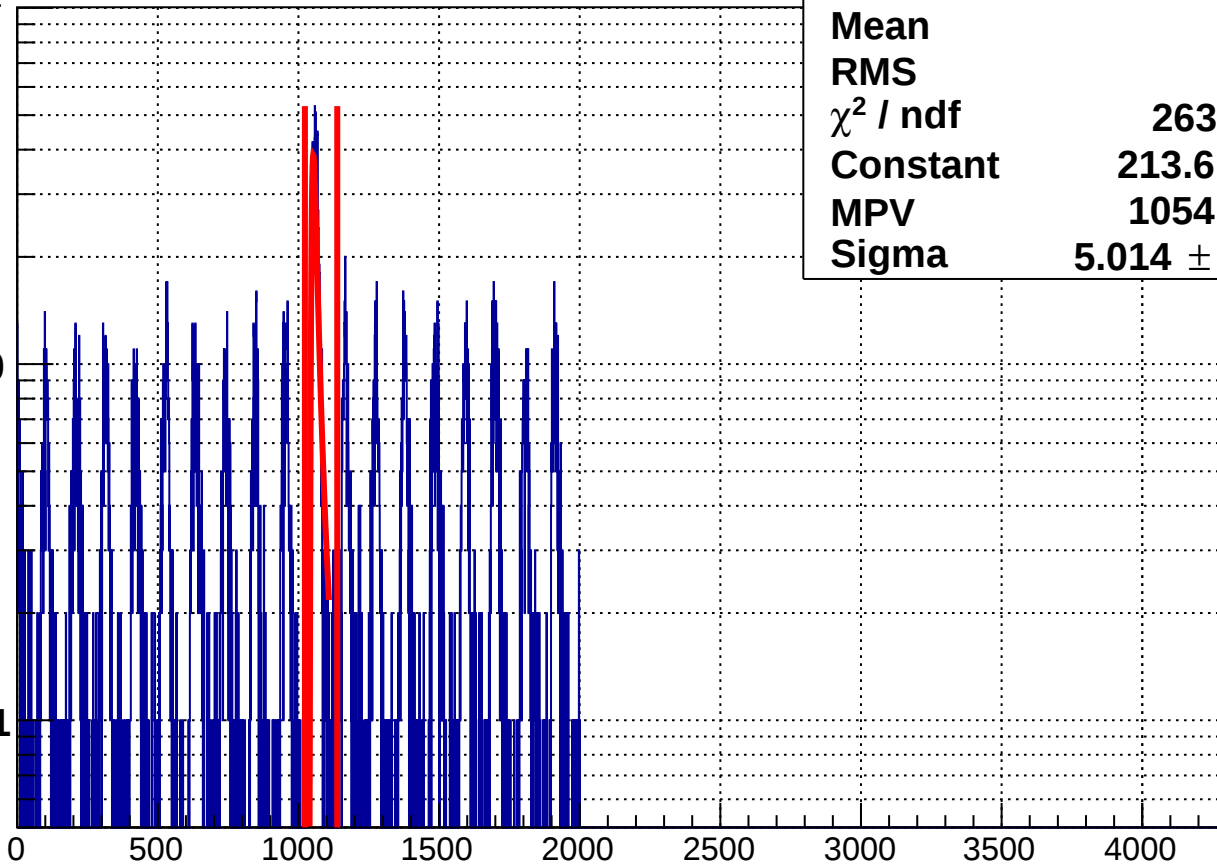
tray_le_103

count

10^2

10

1



Entries

6001

Mean

1025

RMS

516.2

χ^2 / ndf

263.1 / 71

Constant

213.6 ± 9.7

MPV

1054 ± 0.4

Sigma

5.014 ± 0.188

LE time (ns)

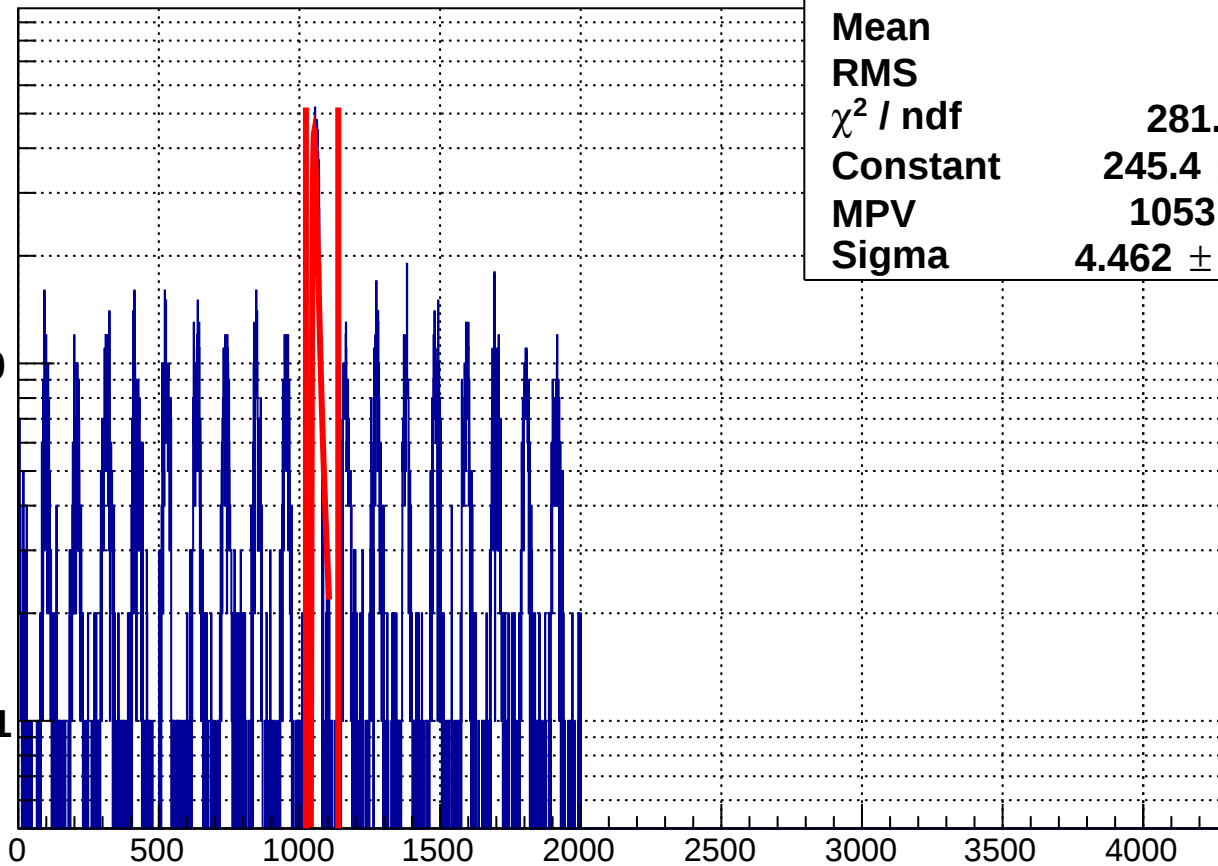
Run# 18101010

tray_le_104

count

10

1



Entries

5770

Mean

1009

RMS

500.9

χ^2 / ndf

281.7 / 66

Constant

245.4 ± 12.1

MPV

1053 ± 0.4

Sigma

4.462 ± 0.195

LE time (ns)

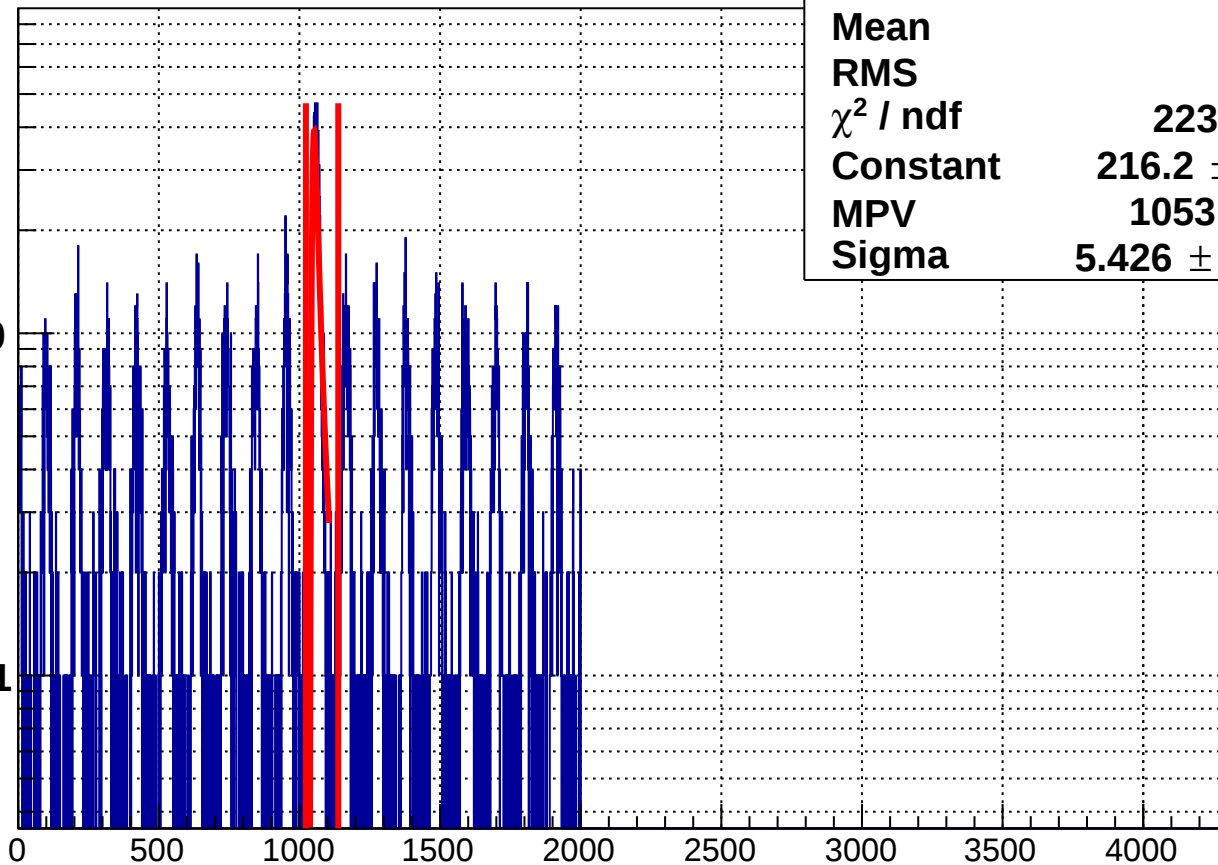
Run# 18101010

tray_le_105

count

10

1



Entries	6059
Mean	1023
RMS	504.8
χ^2 / ndf	223.4 / 71
Constant	216.2 ± 10.4
MPV	1053 ± 0.5
Sigma	5.426 ± 0.233

Run# 18101010

tray_le_106

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

6107

Mean

1022

RMS

501

χ^2 / ndf

307.7 / 75

Constant

263.1 ± 12.5

MPV

1052 ± 0.4

Sigma

4.278 ± 0.172

Run# 18101010

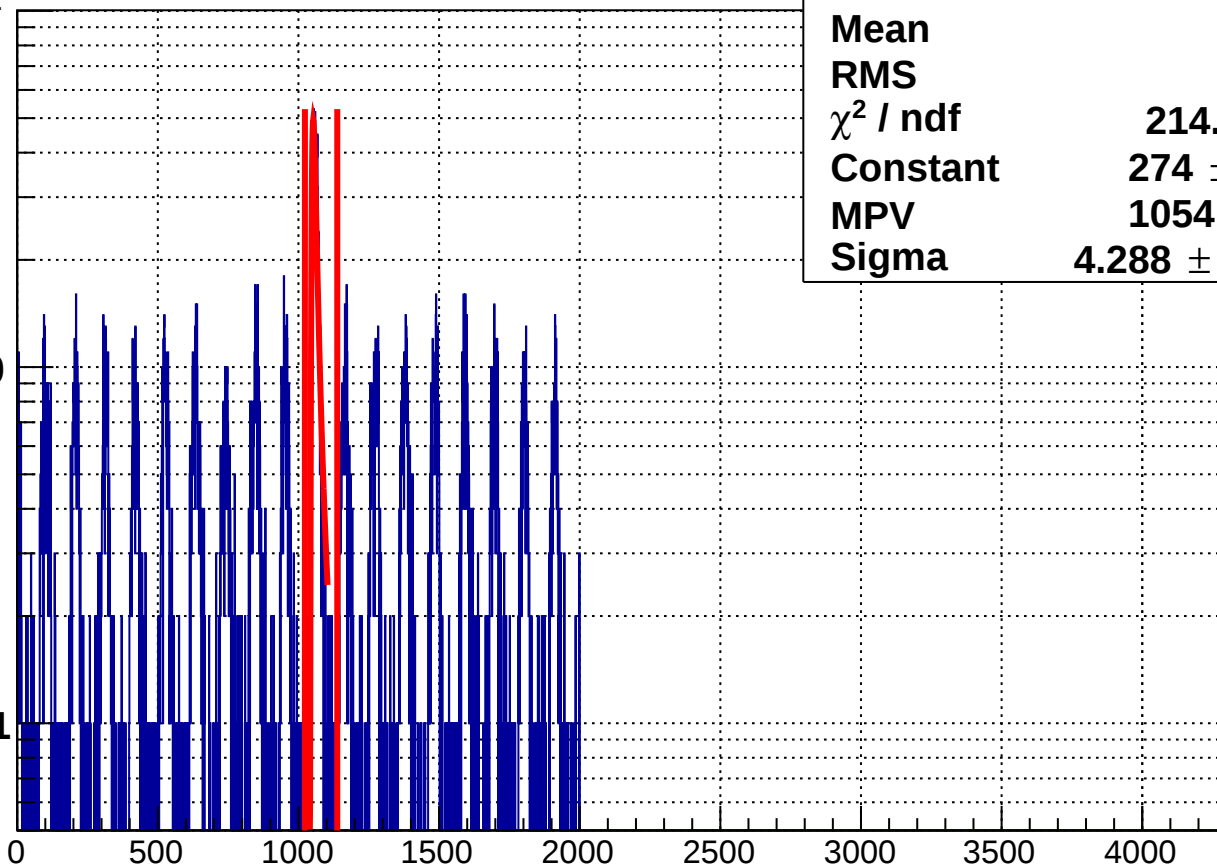
tray_le_107

count

10^2

10

1



Entries

6005

Mean

1004

RMS

503.5

χ^2 / ndf

214.3 / 68

Constant

274 ± 13.4

MPV

1054 ± 0.3

Sigma

4.288 ± 0.188

LE time (ns)

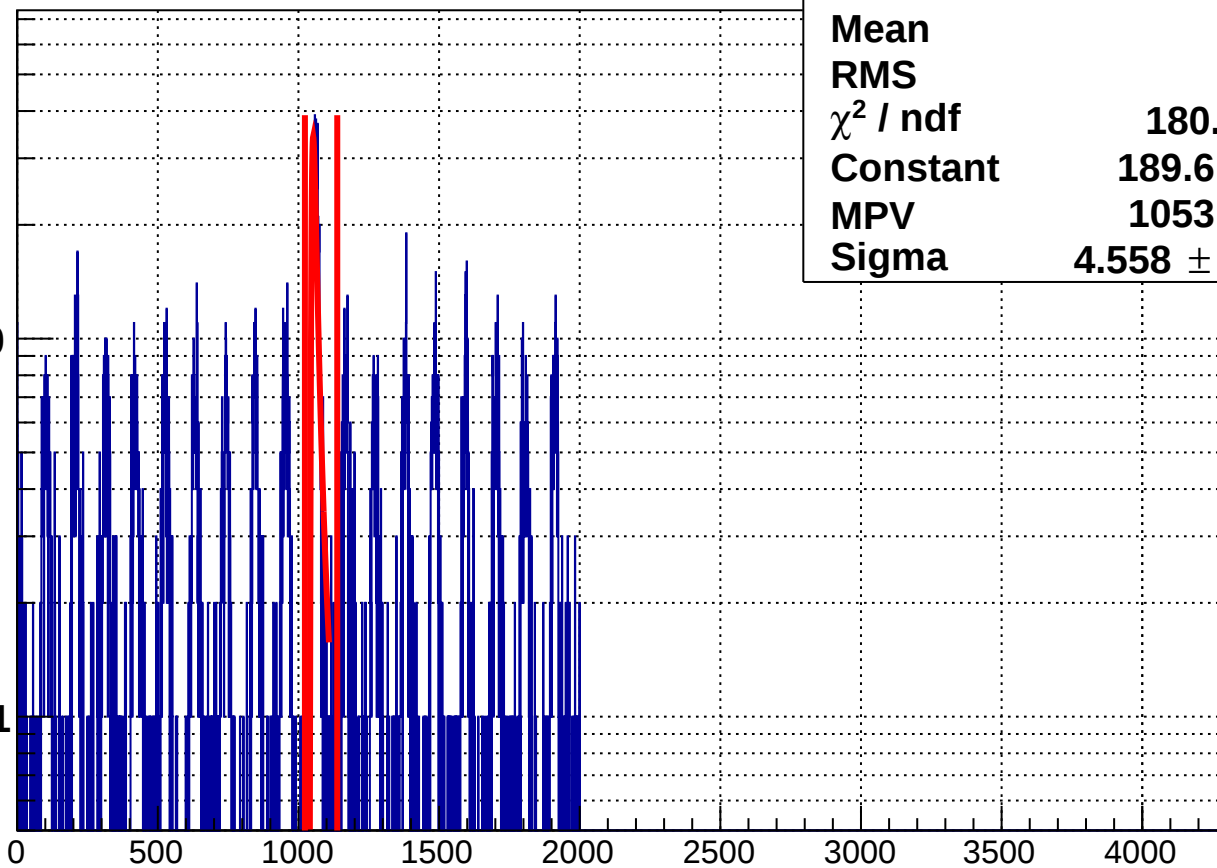
Run# 18101010

tray_le_108

count

10

1



LE time (ns)

Tue Apr 11 14:03:07 2017

Run# 18101010

tray_le_109

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5826

Mean

1009

RMS

504.2

χ^2 / ndf

272.6 / 74

Constant

208.9 ± 11.0

MPV

1053 ± 0.5

Sigma

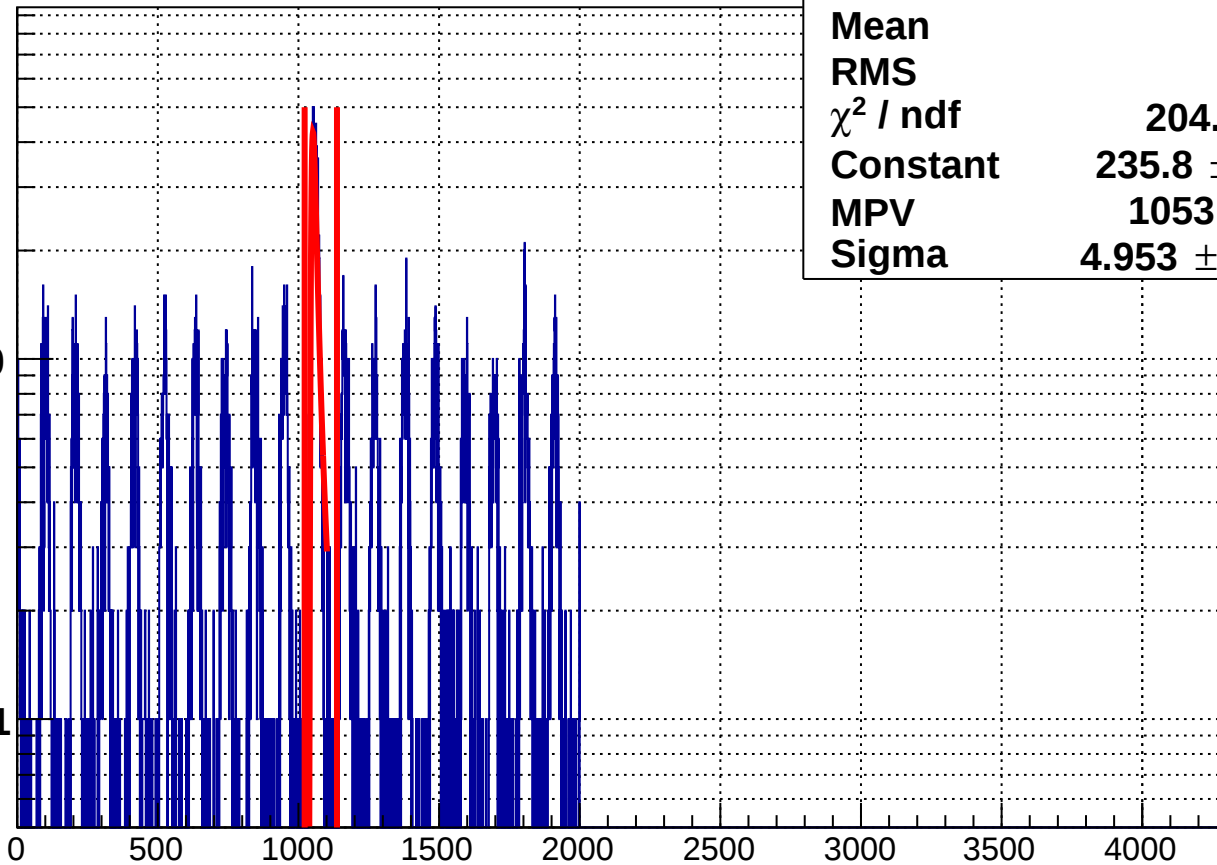
5.172 ± 0.248

Run# 18101010

count

10

1



tray_le_110

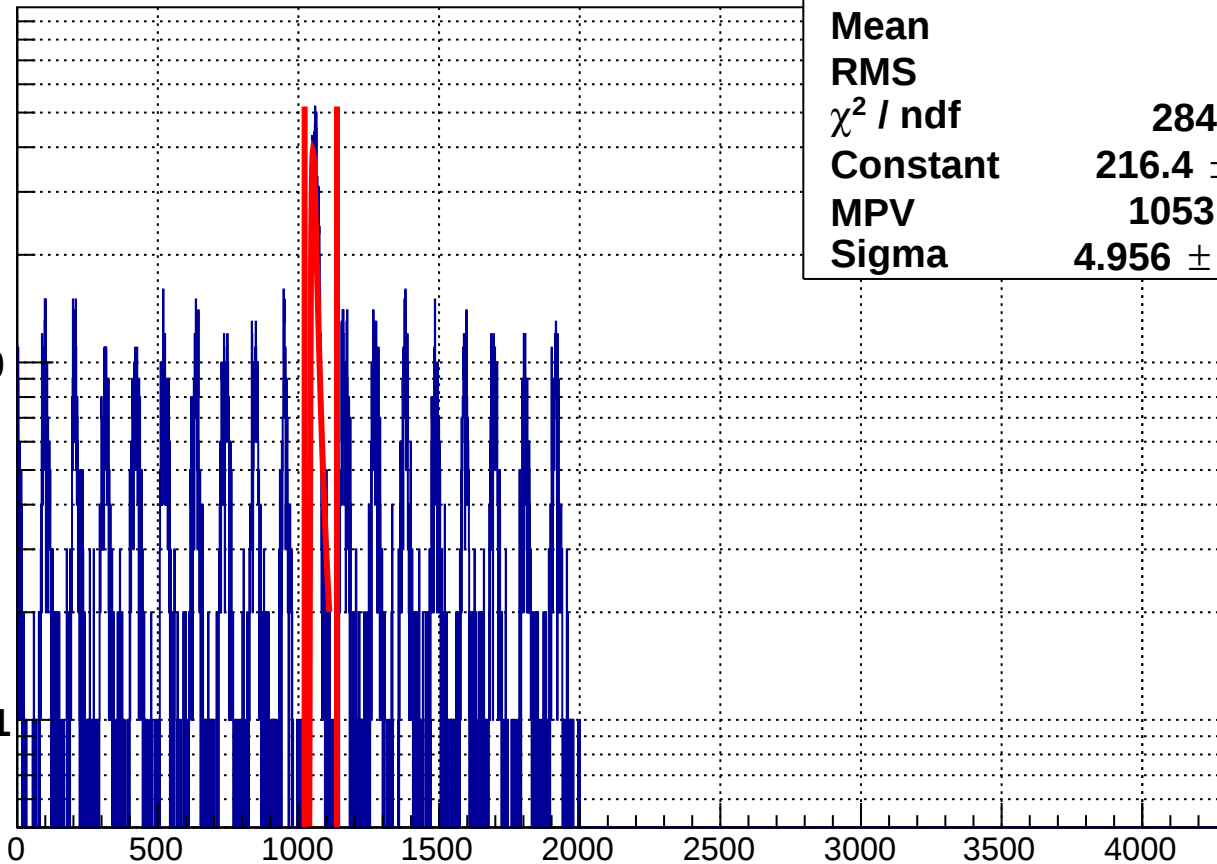
Entries	6064
Mean	1011
RMS	511
χ^2 / ndf	204.8 / 64
Constant	235.8 ± 11.0
MPV	1053 ± 0.4
Sigma	4.953 ± 0.201

Run# 18101010

count

10

1



tray_le_111

Entries	5892
Mean	995.9
RMS	512
χ^2 / ndf	284.3 / 71
Constant	216.4 ± 10.6
MPV	1053 ± 0.4
Sigma	4.956 ± 0.208

LE time (ns)

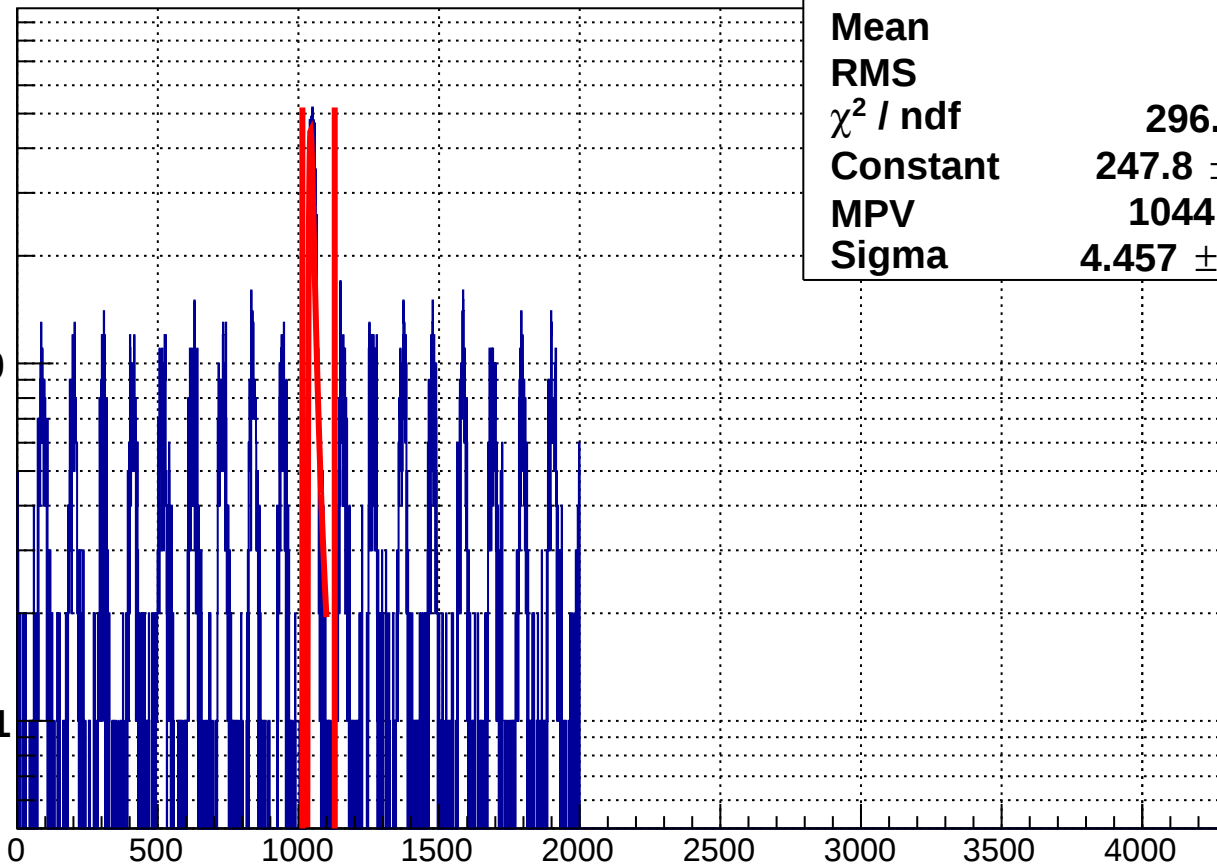
Run# 18101010

tray_le_112

count

10

1



Entries	5834
Mean	1028
RMS	507.8
χ^2 / ndf	296.7 / 74
Constant	247.8 ± 11.9
MPV	1044 ± 0.4
Sigma	4.457 ± 0.181

LE time (ns)

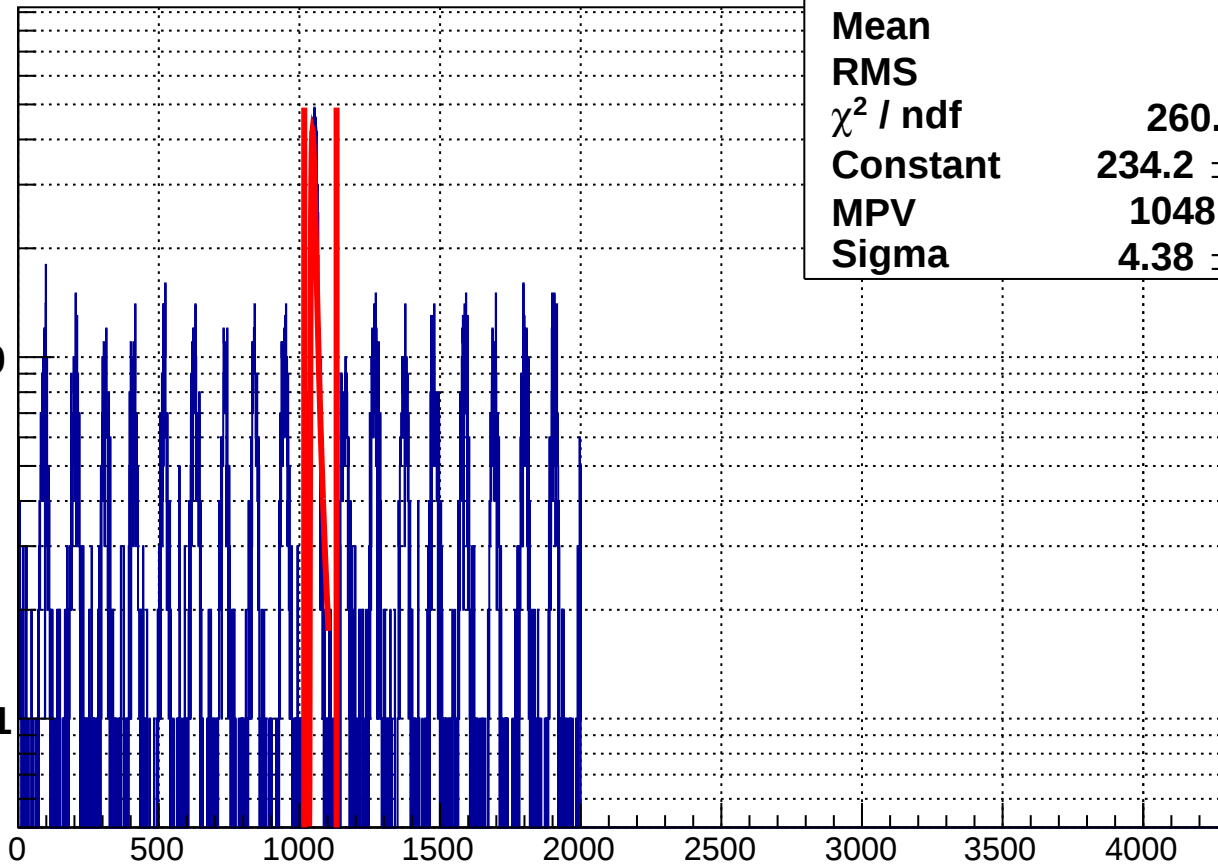
Run# 18101010

tray_le_113

count

10

1



Entries

5800

Mean

1016

RMS

512.5

χ^2 / ndf

260.4 / 74

Constant

234.2 ± 11.3

MPV

1048 ± 0.4

Sigma

4.38 ± 0.18

Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

tray_le_114

Entries	6112
Mean	1022
RMS	518.3
χ^2 / ndf	254.3 / 75
Constant	238.4 ± 12.8
MPV	1046 ± 0.4
Sigma	4.384 ± 0.210

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Run# 18101010

tray_le_115

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5788

Mean

1019

RMS

505.5

χ^2 / ndf

241 / 62

Constant

262 ± 14.3

MPV

1046 ± 0.4

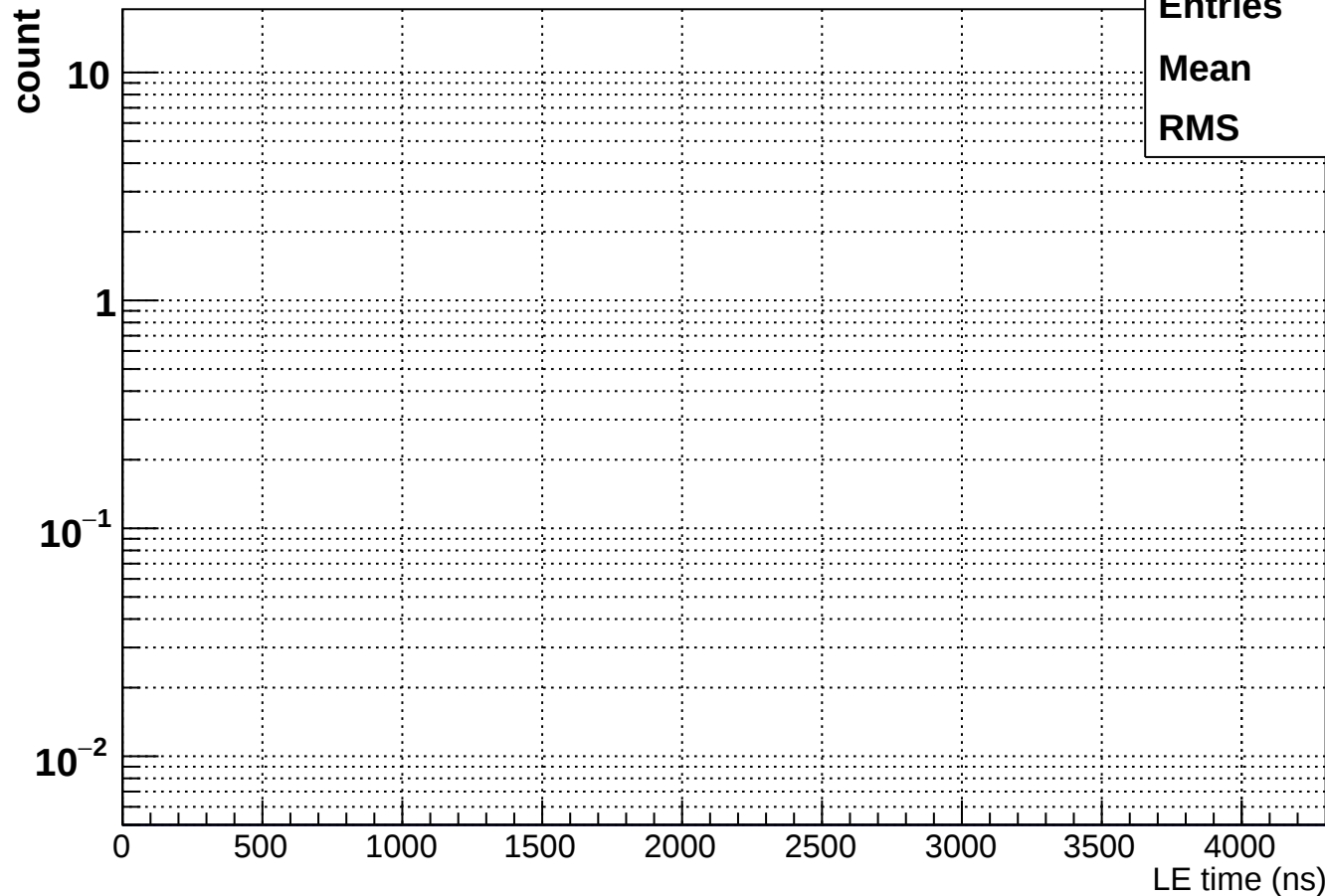
Sigma

4.347 ± 0.222

Run# 18101010

tray_le_116

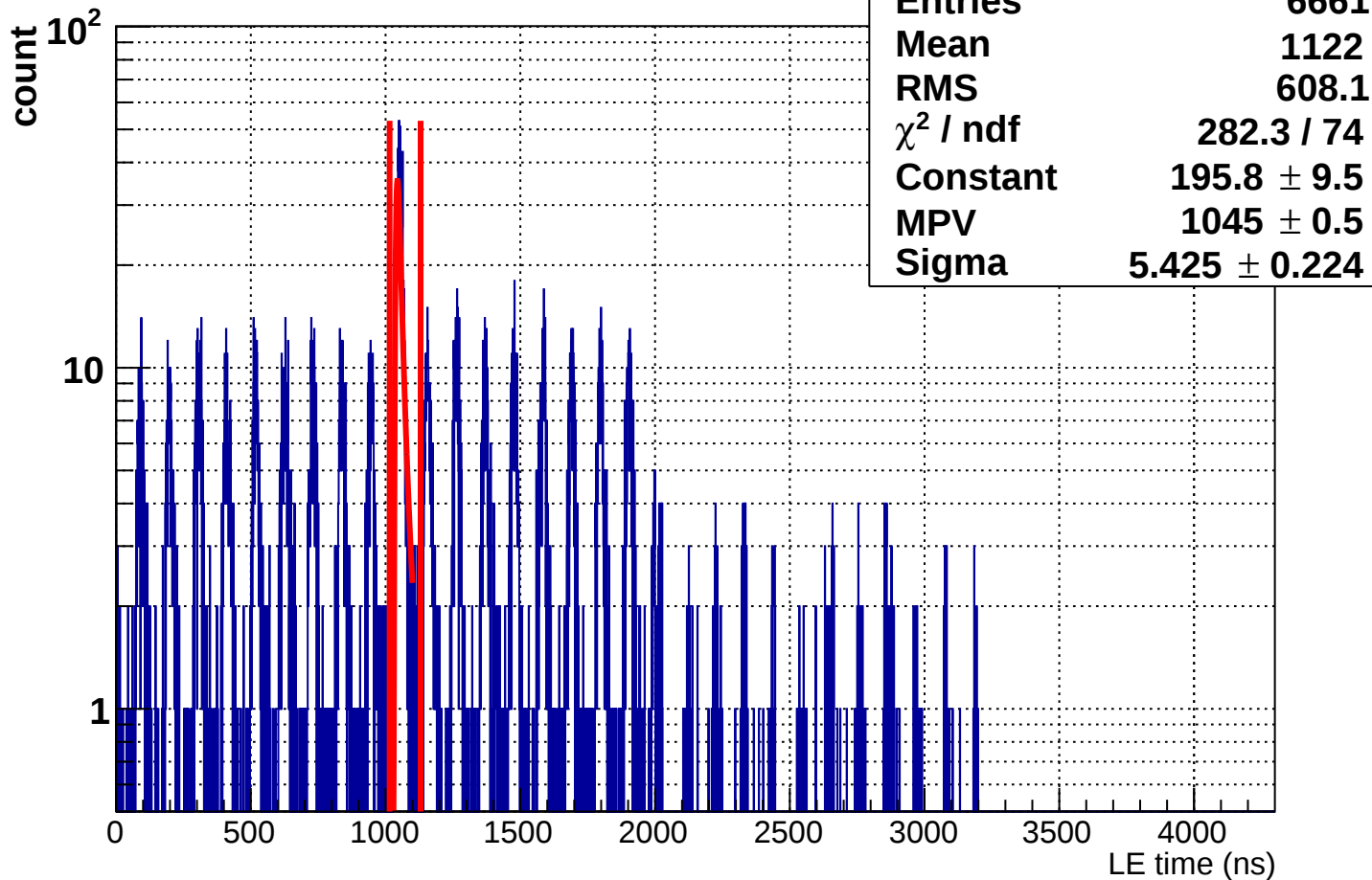
Entries	0
Mean	0
RMS	0



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Run# 18101010

tray_le_117



Tue Apr 11 14:03:08 2017

Run# 18101010

tray_le_118

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

Entries

5983

Mean

1044

RMS

506.9

χ^2 / ndf

292.2 / 70

Constant

233.3 ± 11.4

MPV

1037 ± 0.4

Sigma

4.439 ± 0.182

Run# 18101010

count

10^2

10

1

0

500

1000

1500

2000

2500

3000

3500

4000

LE time (ns)

tray_le_119

Entries	6079
Mean	1024
RMS	515.3
χ^2 / ndf	244.5 / 67
Constant	204.6 ± 8.9
MPV	1037 ± 0.4
Sigma	5.436 ± 0.188

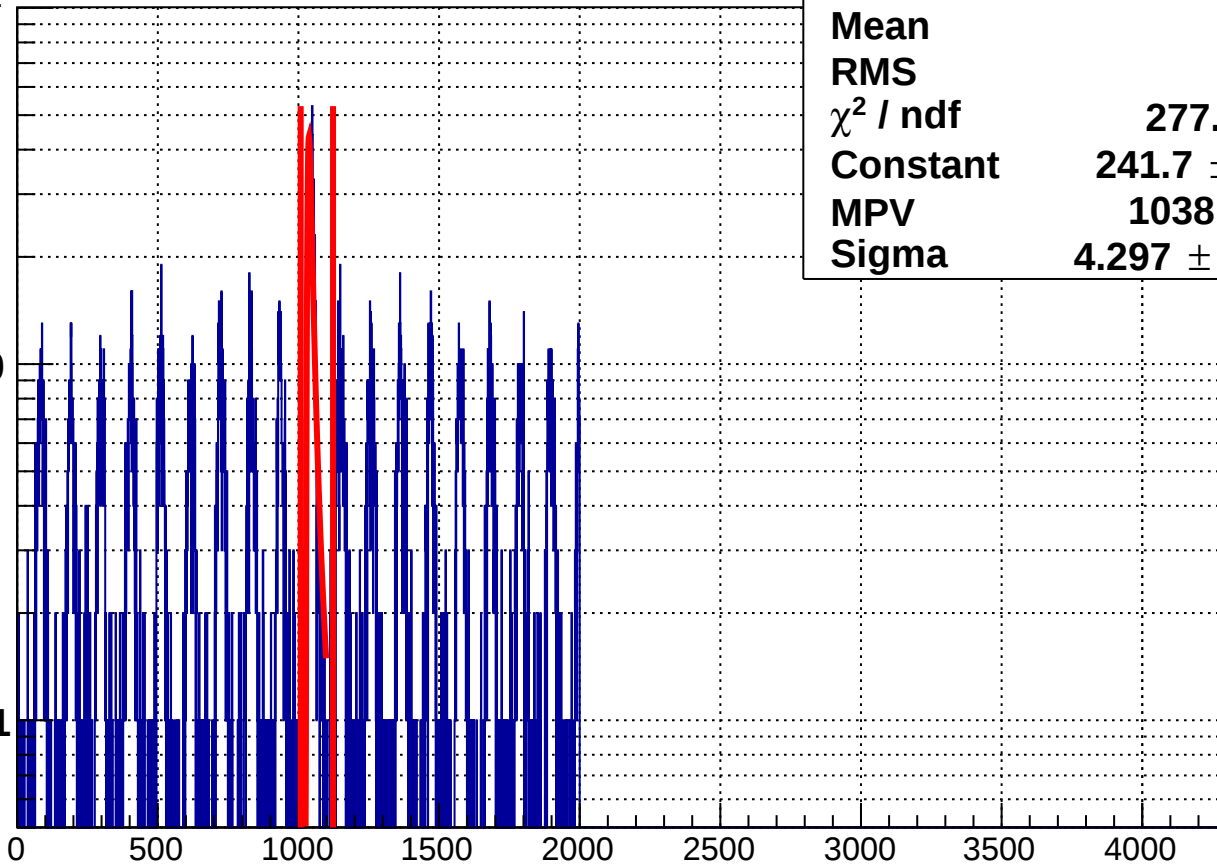
Run# 18101010

count

10^2

10

1



tray_le_120

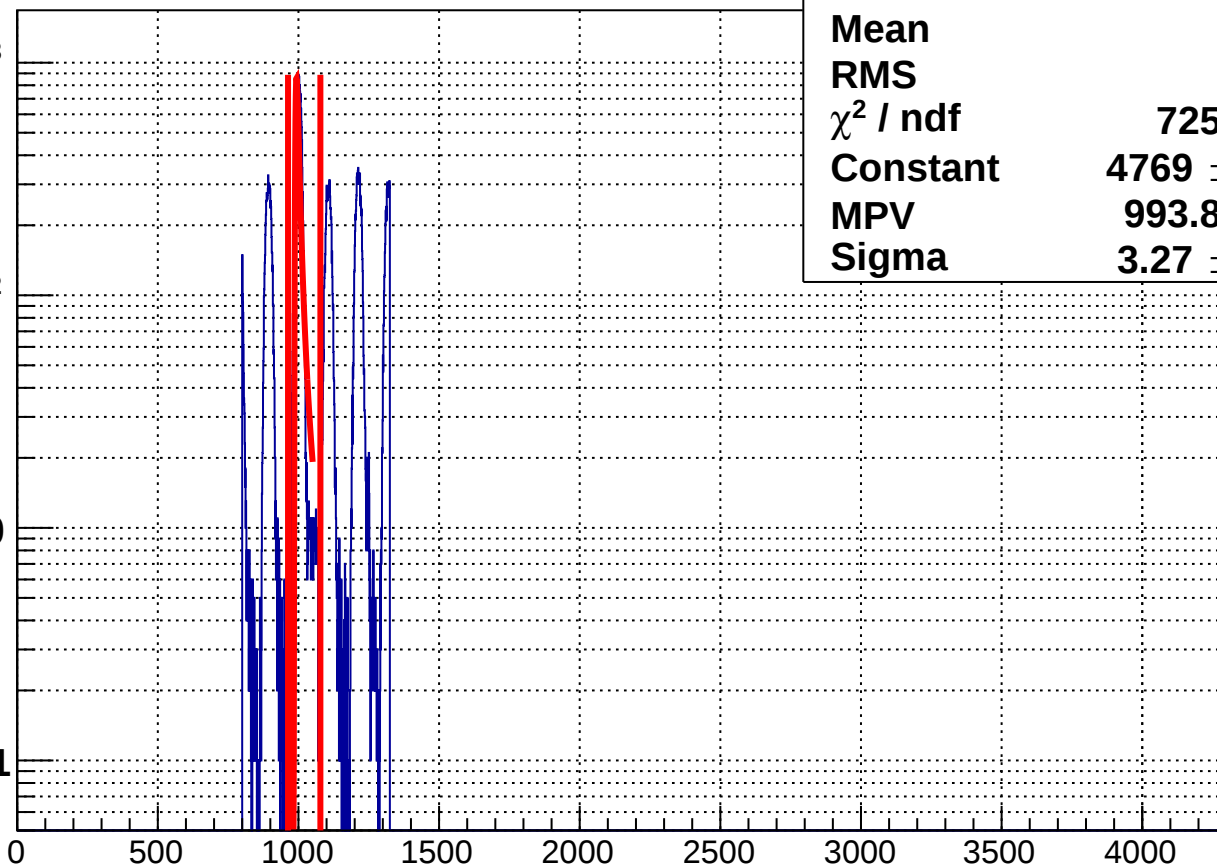
Entries	6007
Mean	1022
RMS	511.2
χ^2 / ndf	277.2 / 73
Constant	241.7 ± 12.5
MPV	1038 ± 0.4
Sigma	4.297 ± 0.192

LE time (ns)

Run# 18101010**tray_le_121****count** 10^3 10^2

10

1



LE time (ns)

Run# 18101010

tray_le_122

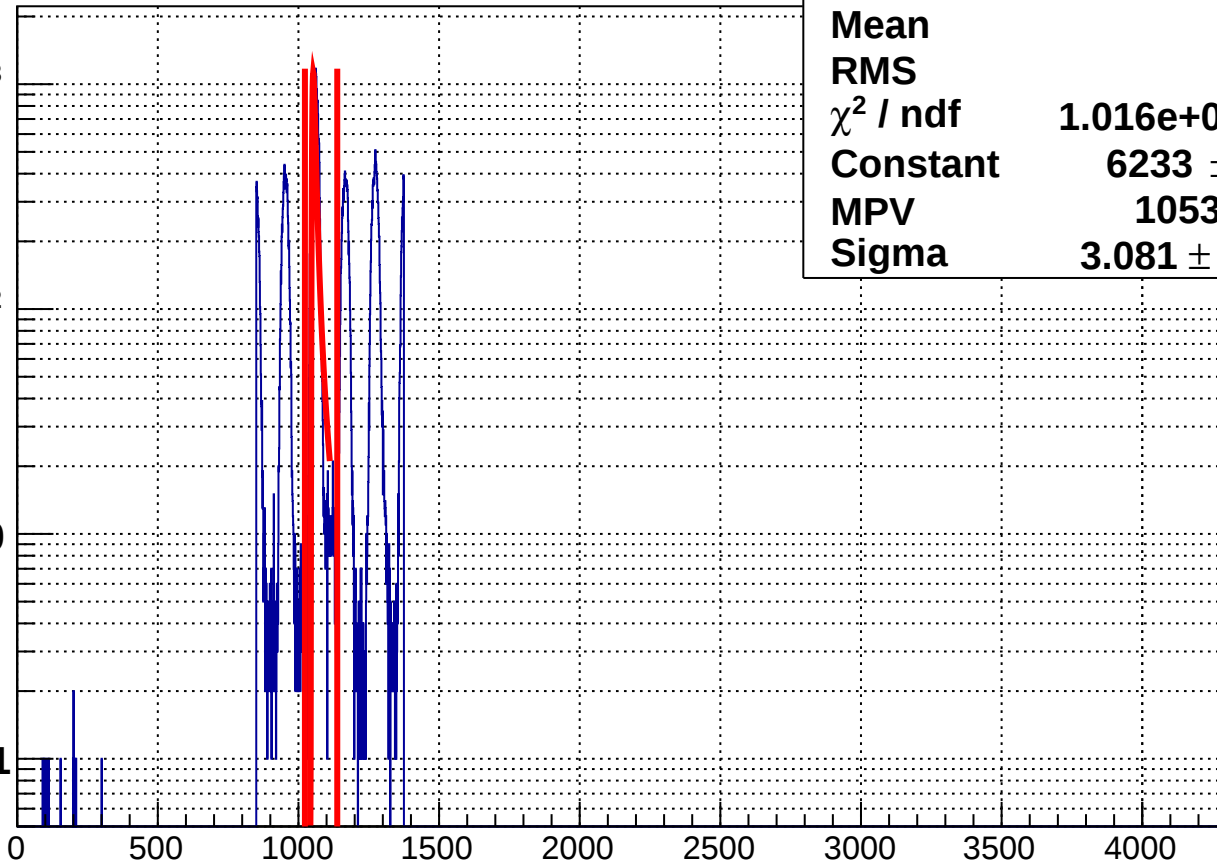
count

10^3

10^2

10

1



Entries	68822
Mean	1102
RMS	131.3
χ^2 / ndf	1.016e+04 / 96
Constant	6233 $\pm$ 67.7
MPV	1053 $\pm$ 0.1
Sigma	3.081 $\pm$ 0.026

LE time (ns)