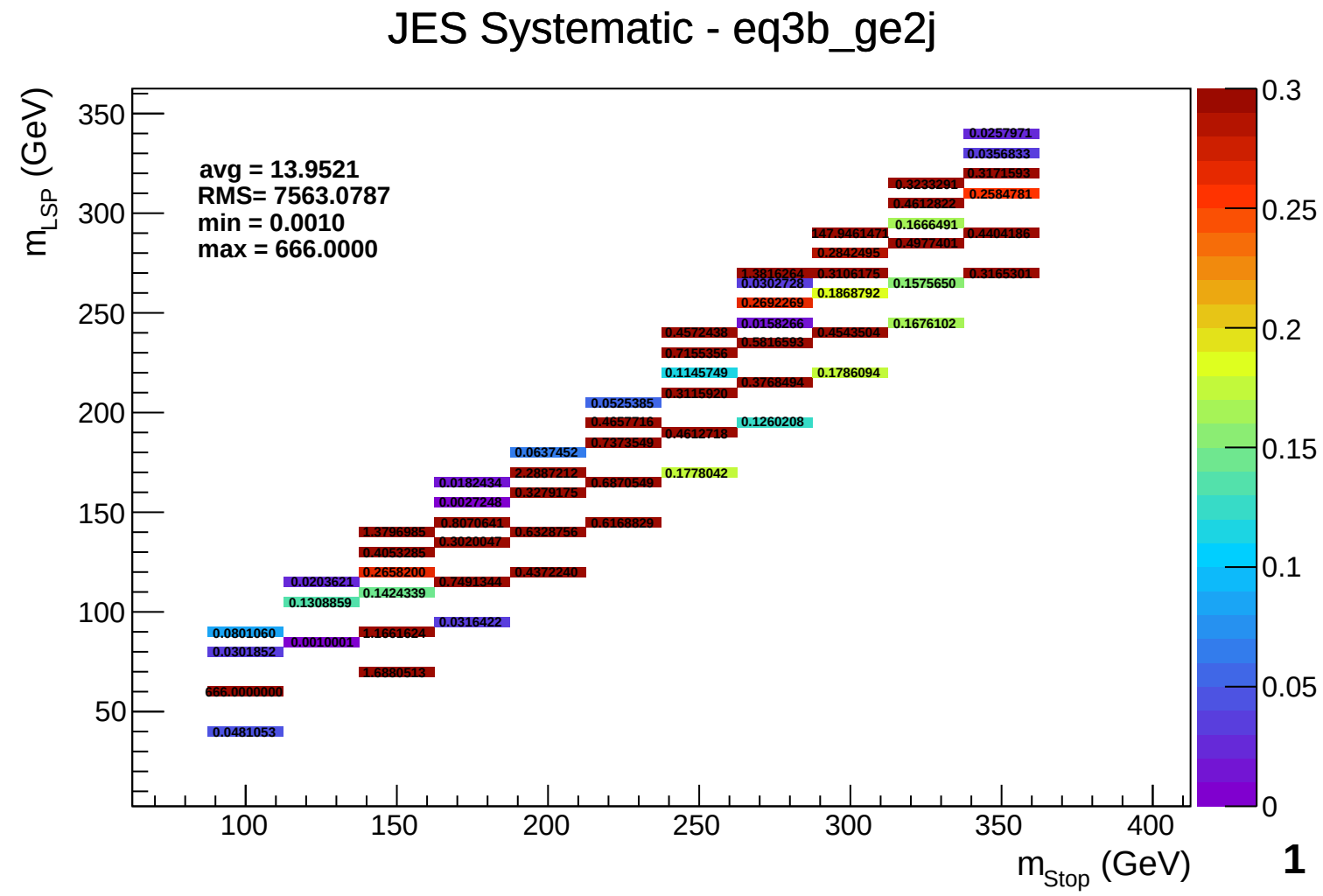
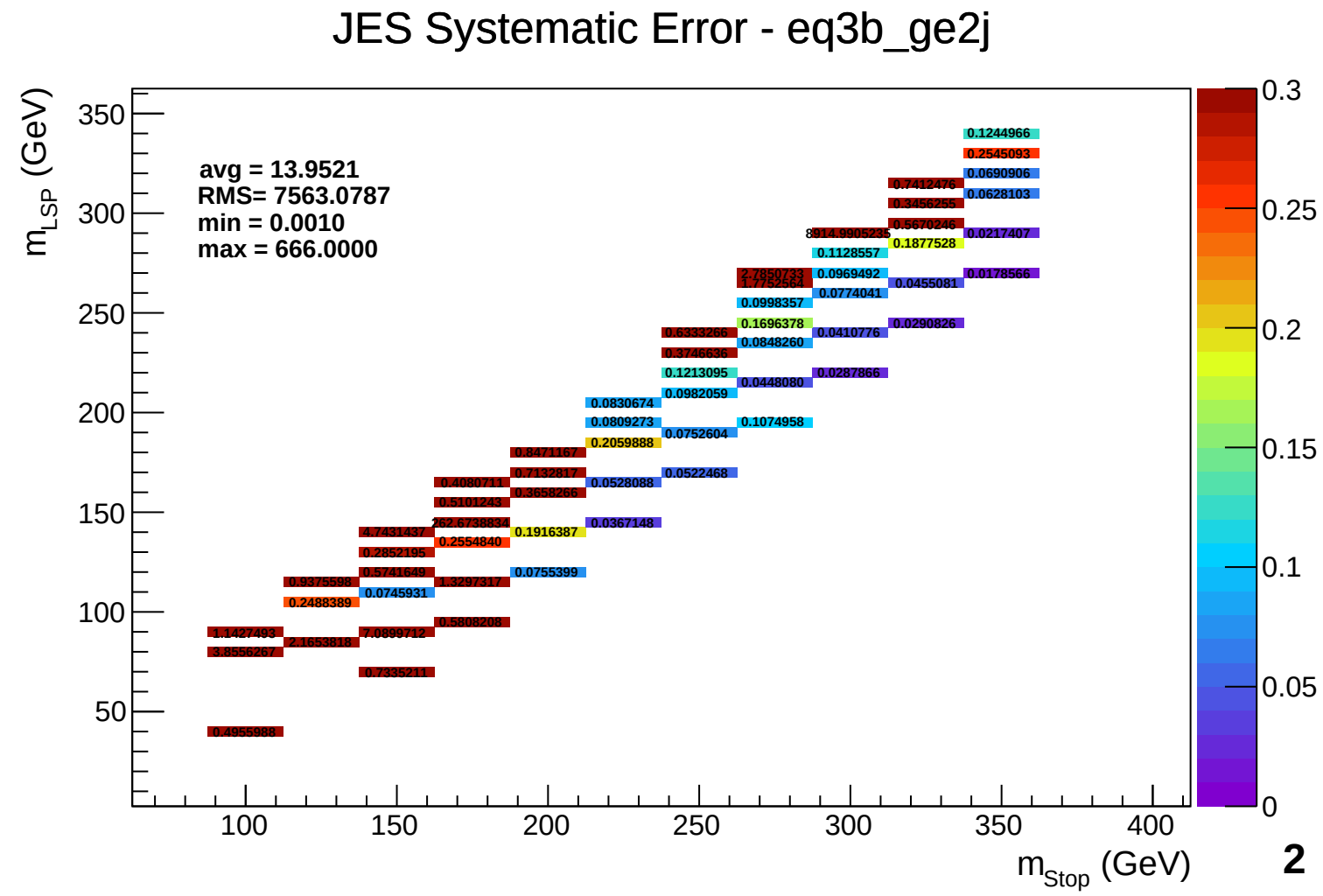
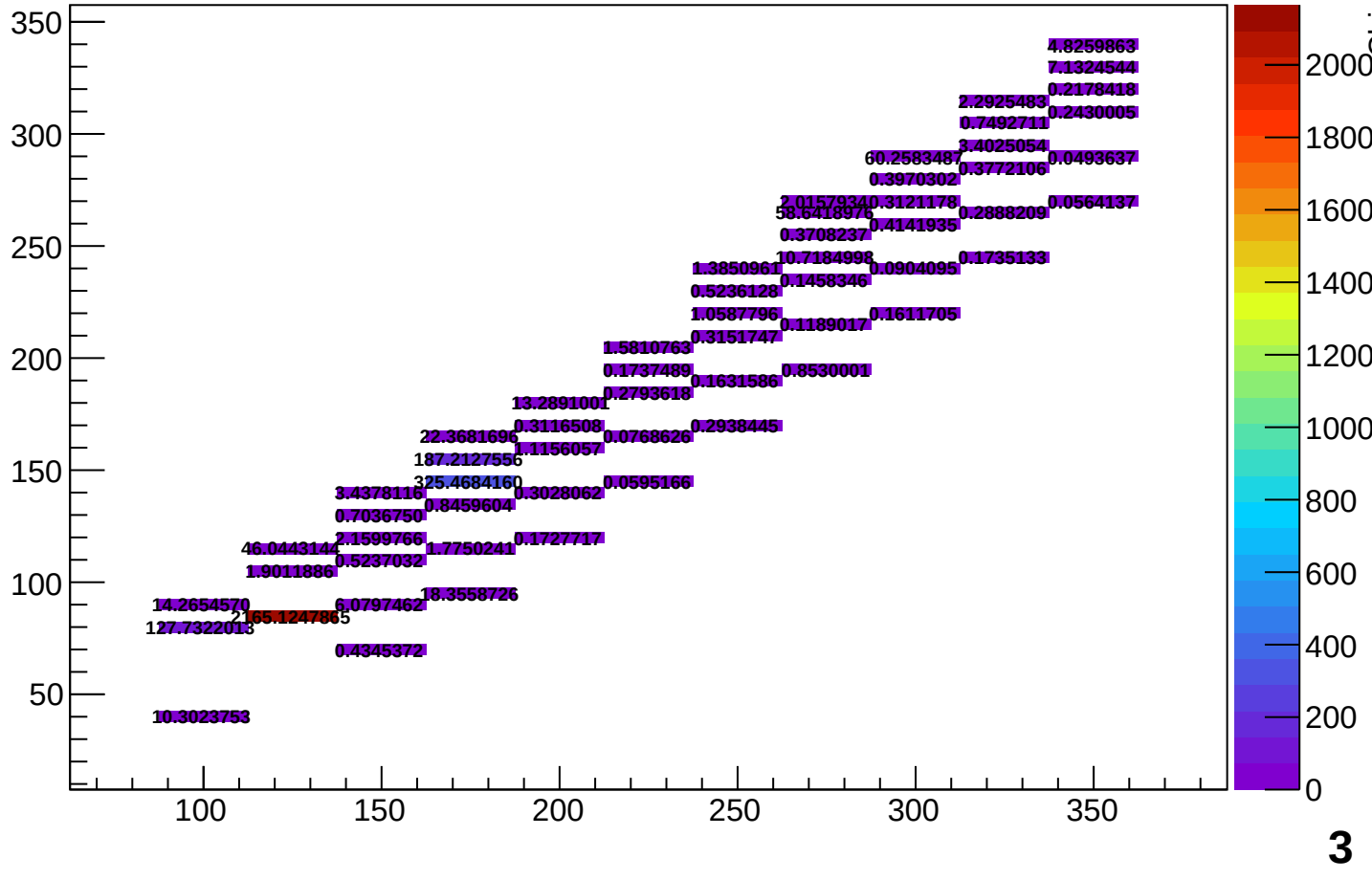
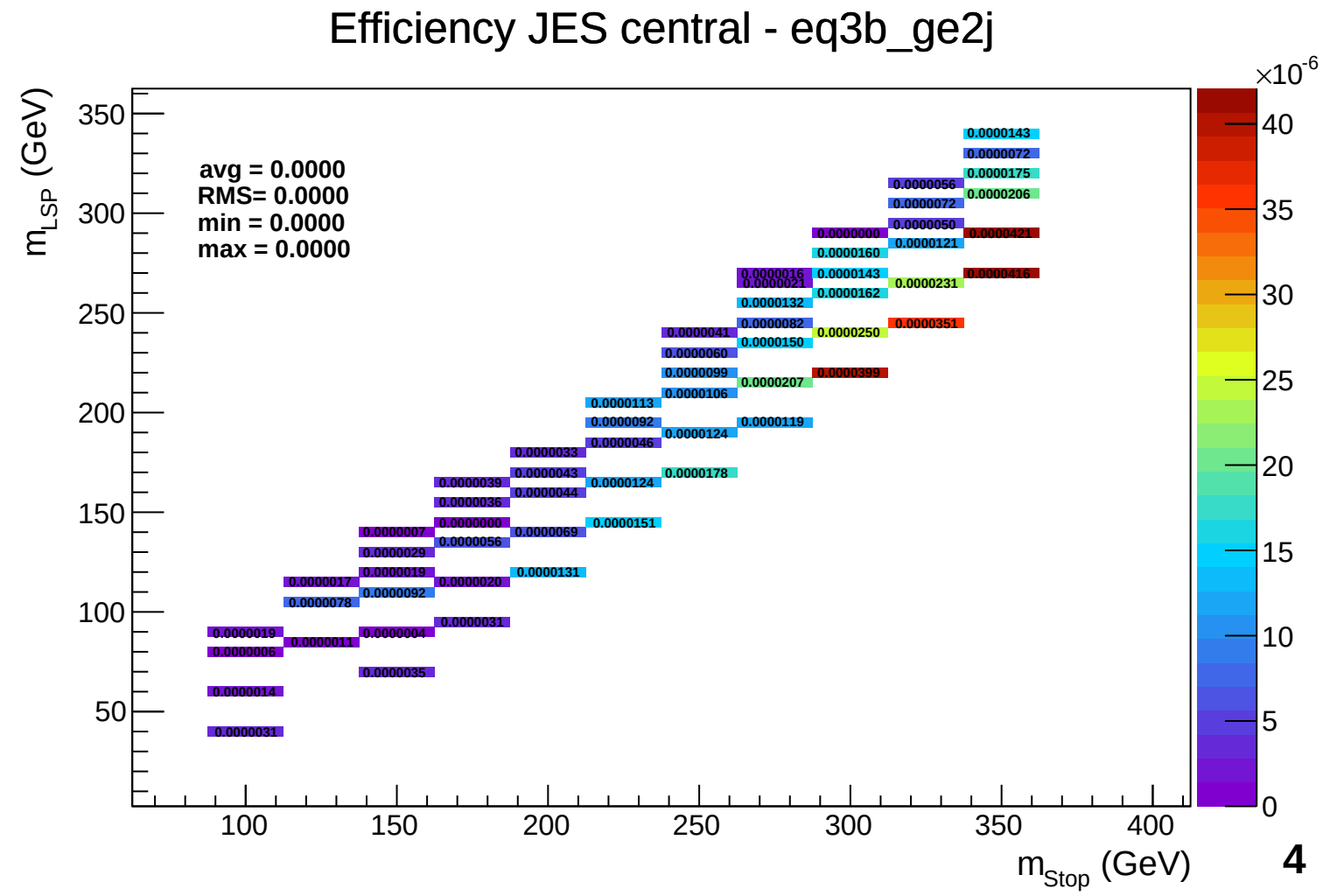
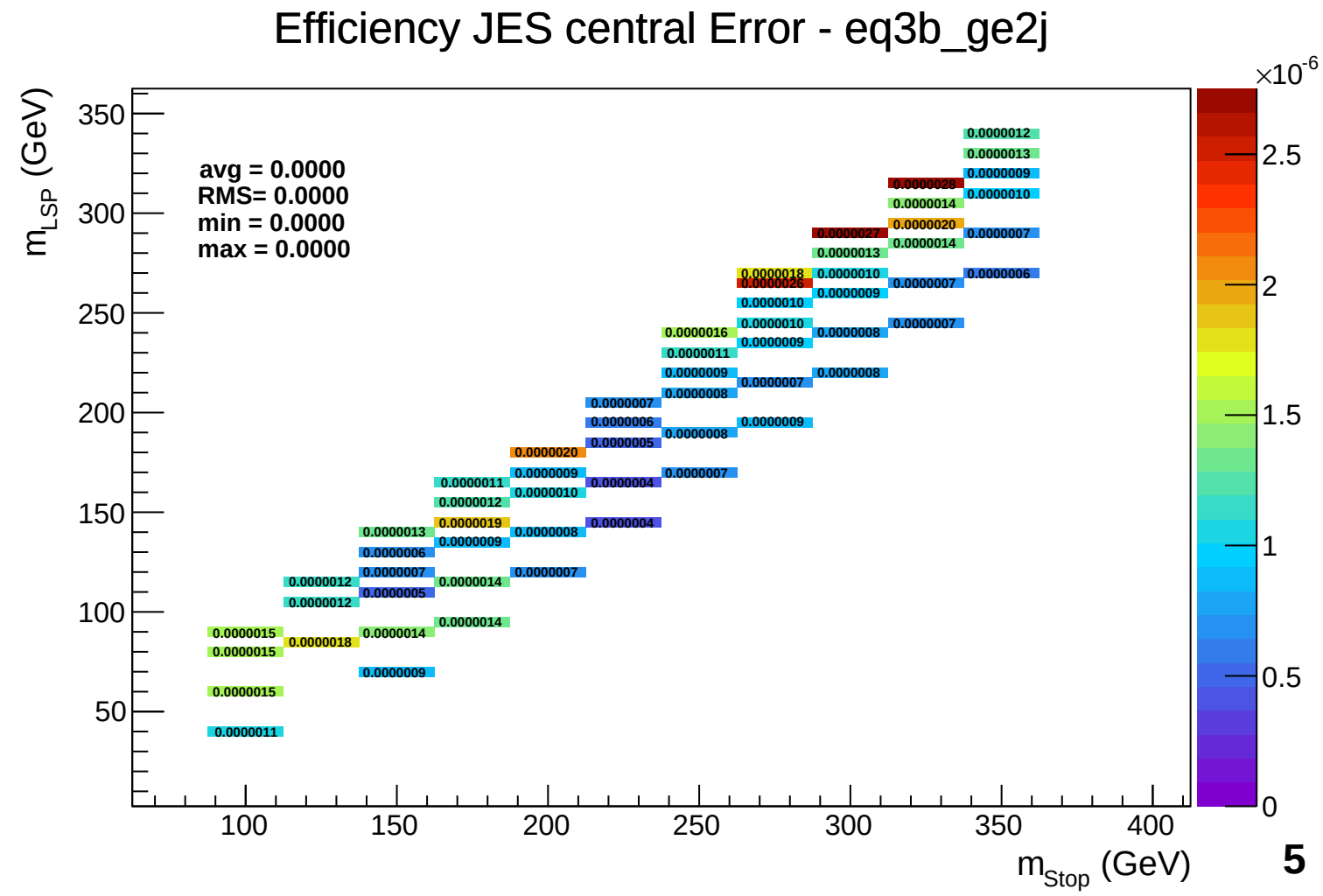
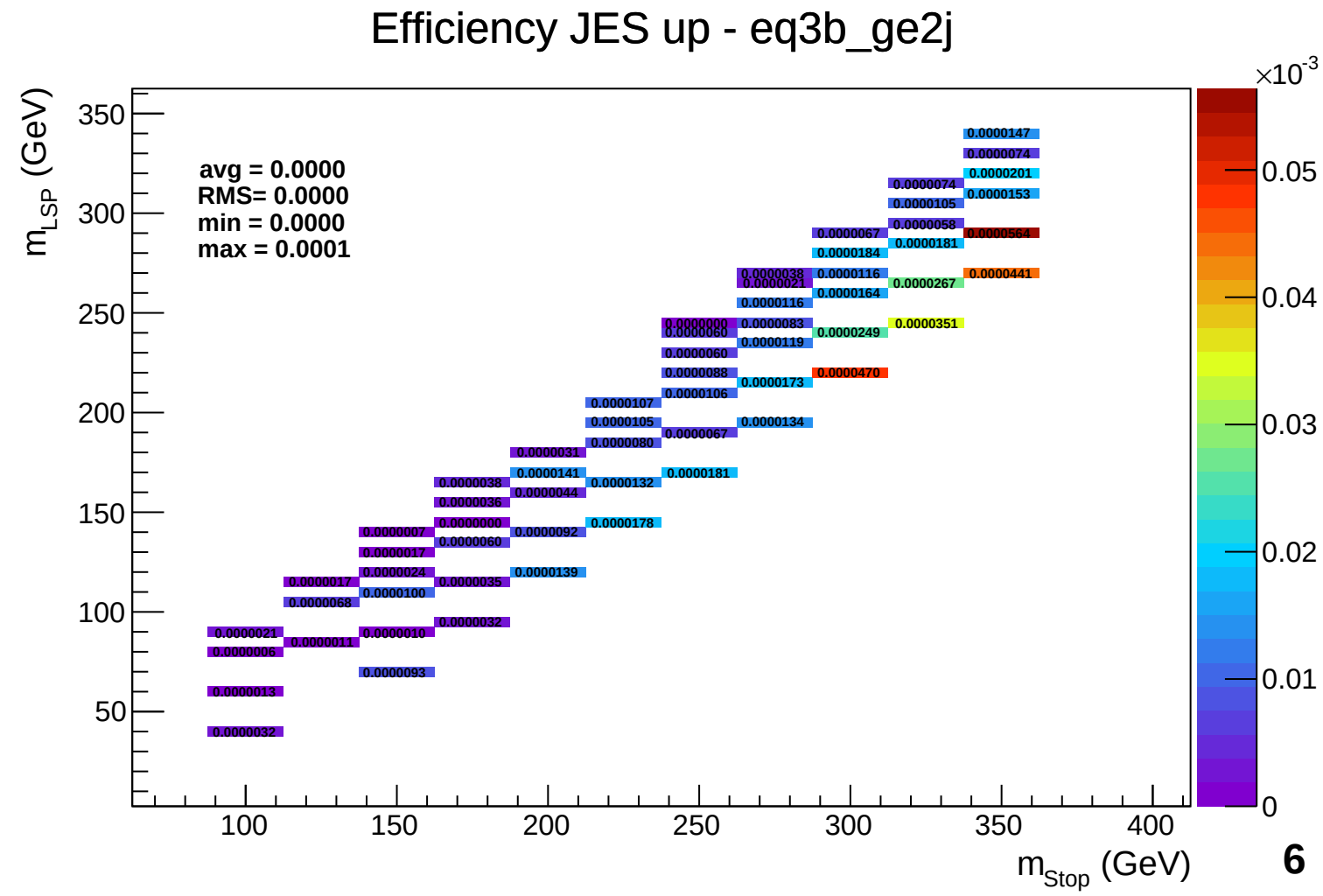

JES Systematic - eq3b_ge2j
avg = 13.9521
RMS= 7563.0787
min = 0.0010
max = 666.0000
m_LSP (GeV)
m_Stop (GeV)
350
300
250
200
150
100
50
100
150
200
250
300
350
400
0.3
0.25
0.2
0.15
0.1
0.05
0
0.0257971
0.0356833
0.3171593
0.3233291
0.2584781
0.4612822
0.1666491
47.9461471
0.4404186
0.4977401
0.2842495
1.3816264
0.3106175
0.3165301
0.0302728
0.1575650
0.1868792
0.2692269
0.0158266
0.1676102
0.4572438
0.4543504
0.5816593
0.7155356
0.1145749
0.1786094
0.3768494
0.3115920
0.0525385
0.4657716
0.1260208
0.4612718
0.7373549
0.0637452
0.1778042
0.0182434
2.2887212
0.6870549
0.3279175
0.0027248
0.8070641
0.6168829
1.3796985
0.6328756
0.3020047
0.4053285
0.0203621
0.2658200
0.4372240
0.7491344
0.1424339
0.1308859
0.0316422
0.0801060
0.0010001
1.1661624
0.0301852
1.6880513
666.0000000
0.0481053
1

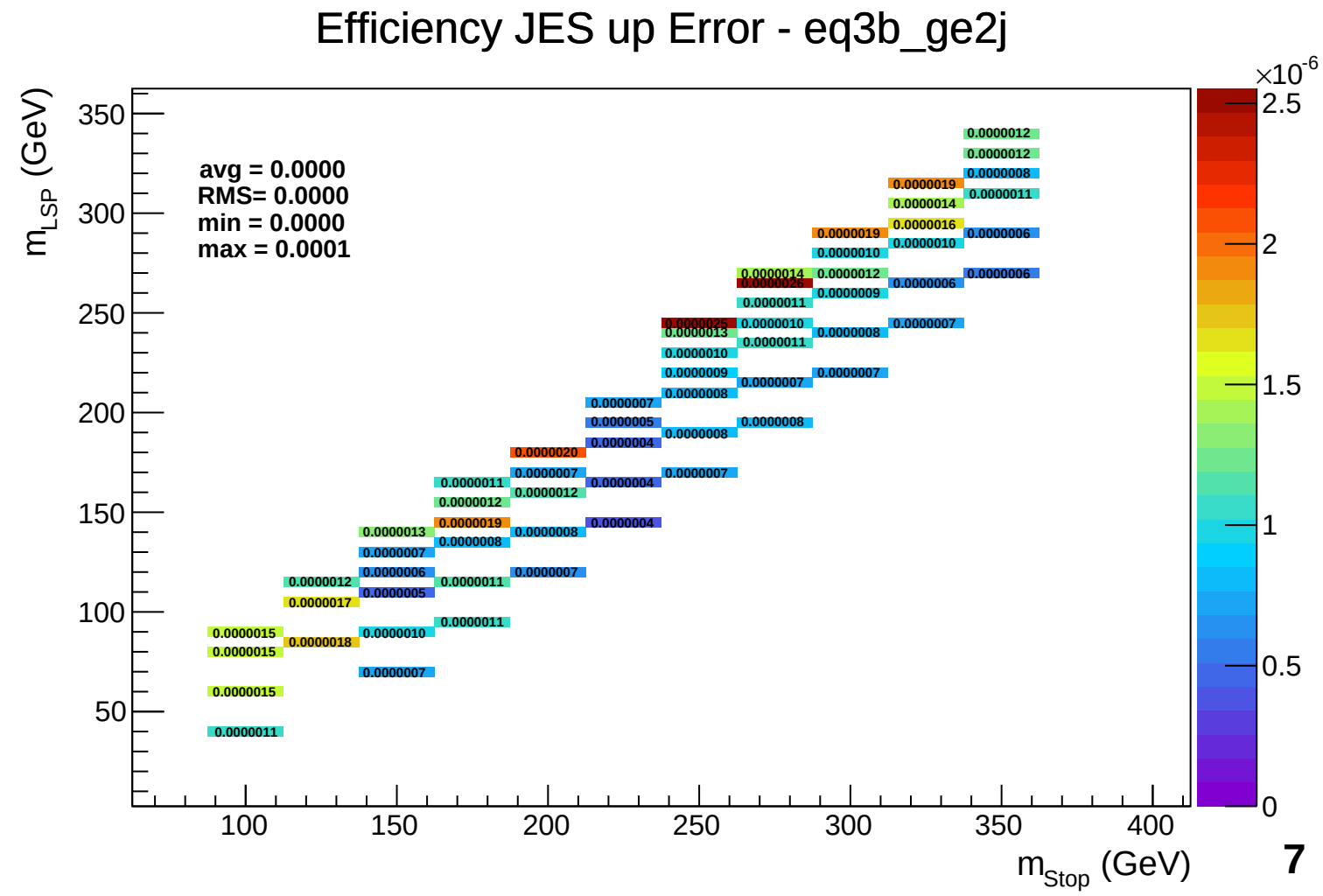

JES Systematic Error - eq3b_ge2j
avg = 13.9521
RMS= 7563.0787
min = 0.0010
max = 666.0000
m_LSP (GeV)
m_Stop (GeV)
2

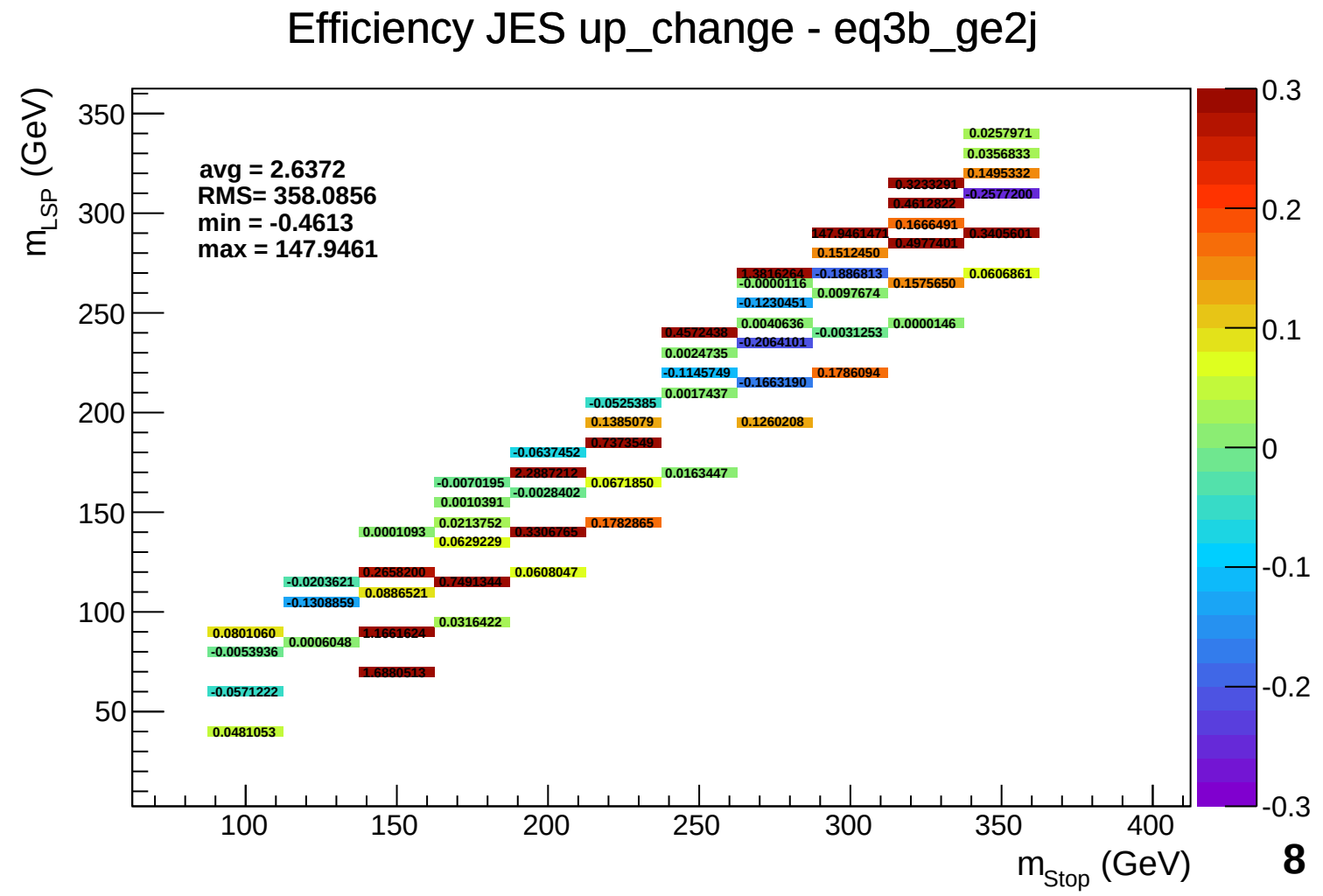

Relative Error
350
300
250
200
150
100
50
100
150
200
250
300
350
2000
1800
1600
1400
1200
1000
800
600
400
200
0
4.8259863
7.1324544
0.2178418
2.2925483
0.2430005
0.7492711
3.4025054
60.2583487
0.0493637
0.3772106
0.3970302
2.0157934
0.3121178
0.0564137
58.6418976
0.2888209
0.4141935
0.3708237
10.7184998
0.1735133
1.3850961
0.0904095
0.1458346
0.5236128
1.0587796
0.1611705
0.1189017
0.3151747
1.5810763
0.1737489
0.8530001
0.1631586
0.2793618
13.2891001
0.3116508
0.2938445
22.3681696
0.0768626
1.1156057
187.2127556
325.4684160
0.0595166
3.4378116
0.3028062
0.8459604
0.7036750
2.1599766
0.1727717
46.0443144
1.7750241
0.5237032
1.9011886
14.2654570
6.0797462
18.3558726
2165.1247865
1277.7322018
0.4345372
10.3023753
3

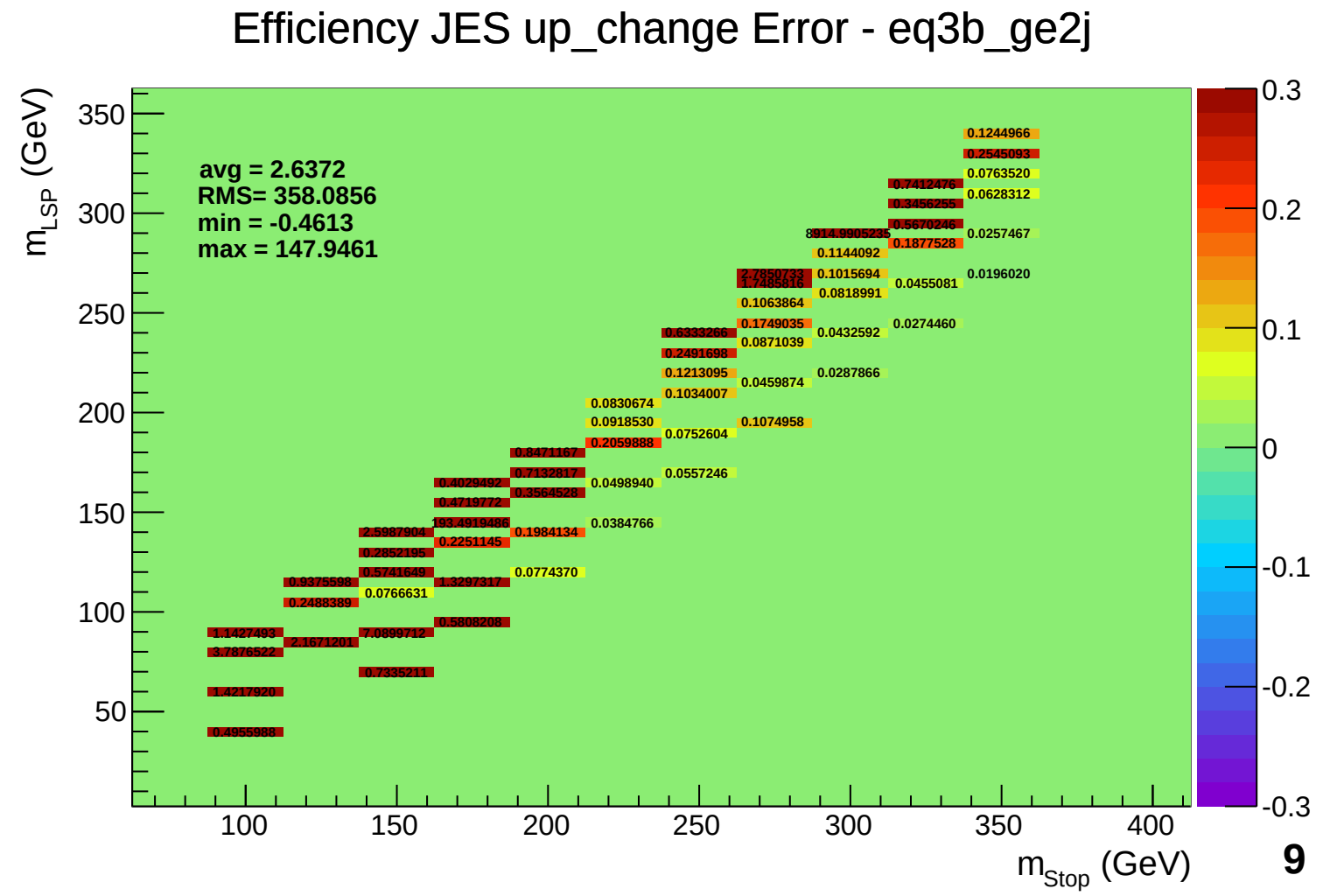

Efficiency JES central - eq3b_ge2j
avg = 0.0000
RMS= 0.0000
min = 0.0000
max = 0.0000
m_LSP (GeV)
m_Stop (GeV)
×10^-6
0.0000143
0.0000072
0.0000175
0.0000056
0.0000206
0.0000072
0.0000050
0.0000000
0.0000421
0.0000121
0.0000160
0.0000016
0.0000143
0.0000416
0.0000021
0.0000231
0.0000162
0.0000132
0.0000082
0.0000351
0.0000041
0.0000250
0.0000150
0.0000060
0.0000099
0.0000399
0.0000207
0.0000106
0.0000113
0.0000092
0.0000119
0.0000124
0.0000046
0.0000033
0.0000178
0.0000043
0.0000124
0.0000039
0.0000044
0.0000036
0.0000151
0.0000000
0.0000007
0.0000069
0.0000056
0.0000029
0.0000131
0.0000019
0.0000017
0.0000020
0.0000092
0.0000078
0.0000031
0.0000019
0.0000004
0.0000011
0.0000006
0.0000035
0.0000014
0.0000031
4

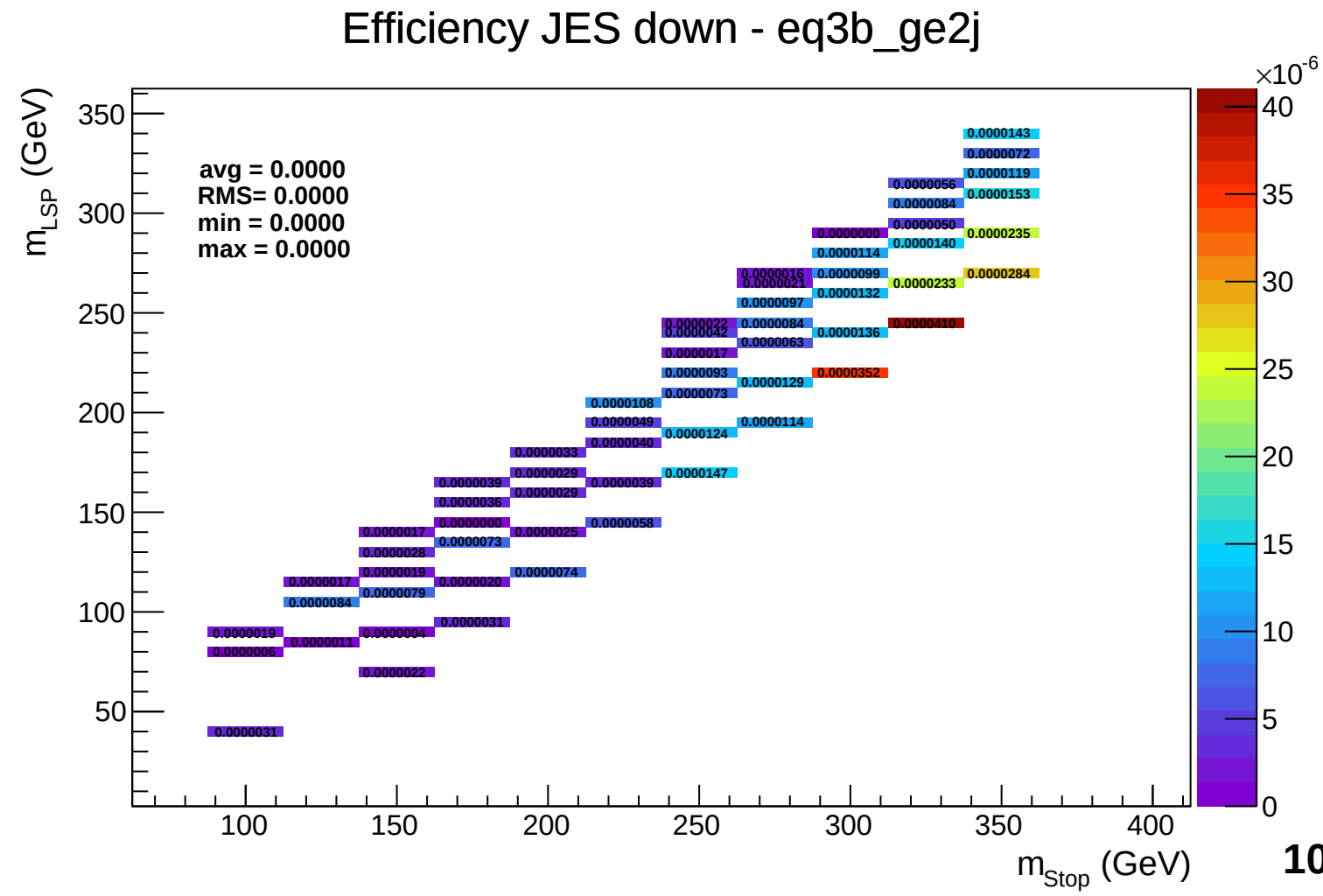

Efficiency JES central Error - eq3b_ge2j
avg = 0.0000
RMS= 0.0000
min = 0.0000
max = 0.0000
m_LSP (GeV)
m_Stop (GeV)
×10^-6
5

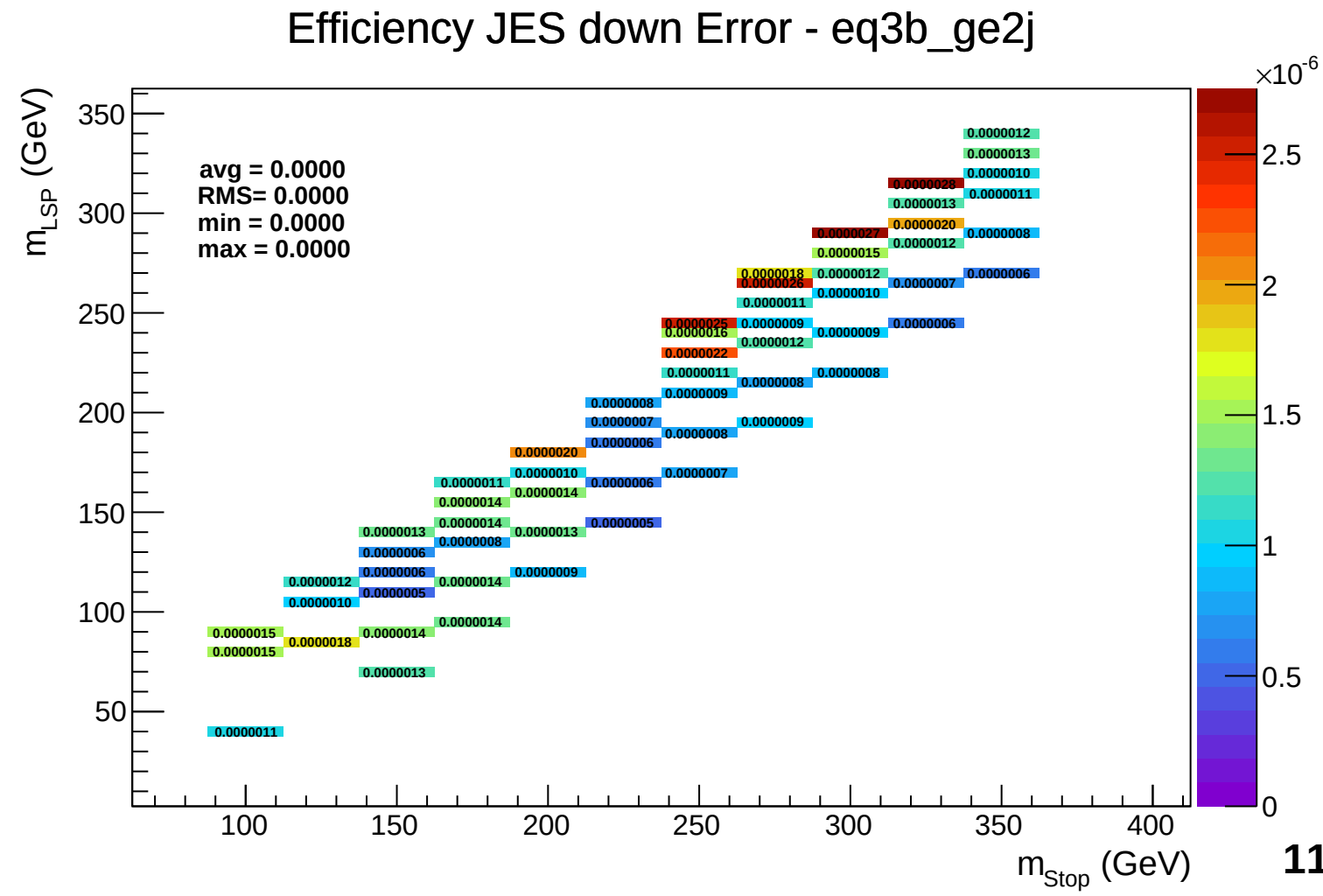

Efficiency JES up - eq3b_ge2j
avg = 0.0000
RMS= 0.0000
min = 0.0000
max = 0.0001
m_LSP (GeV)
m_Stop (GeV)
×10^-3
0.05
0.04
0.03
0.02
0.01
0
6

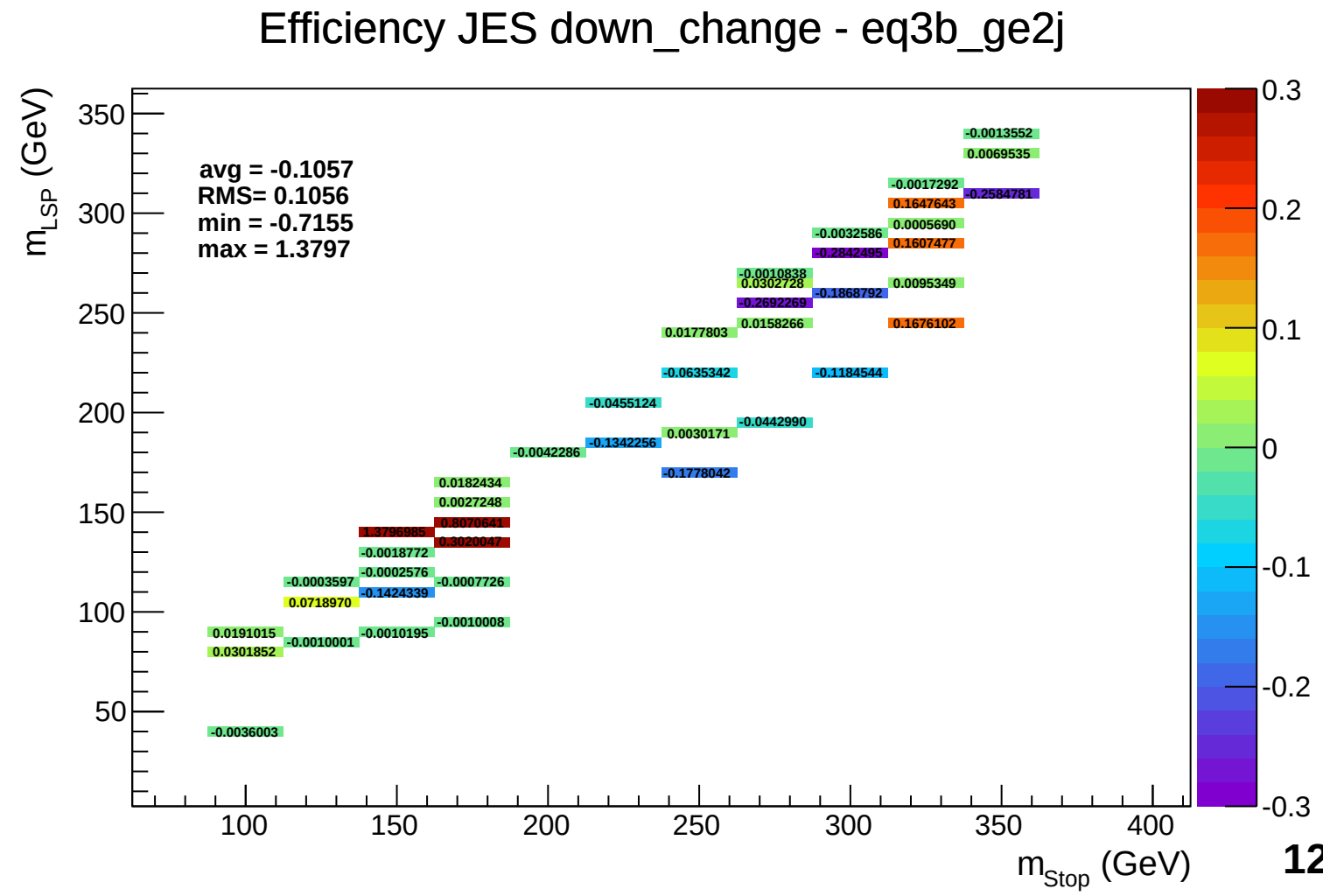

Efficiency JES up Error - eq3b_ge2j
avg = 0.0000
RMS= 0.0000
min = 0.0000
max = 0.0001
m_LSP (GeV)
m_Stop (GeV)
×10^-6
2.5
2
1.5
1
0.5
0
350
300
250
200
150
100
50
100
150
200
250
300
350
400

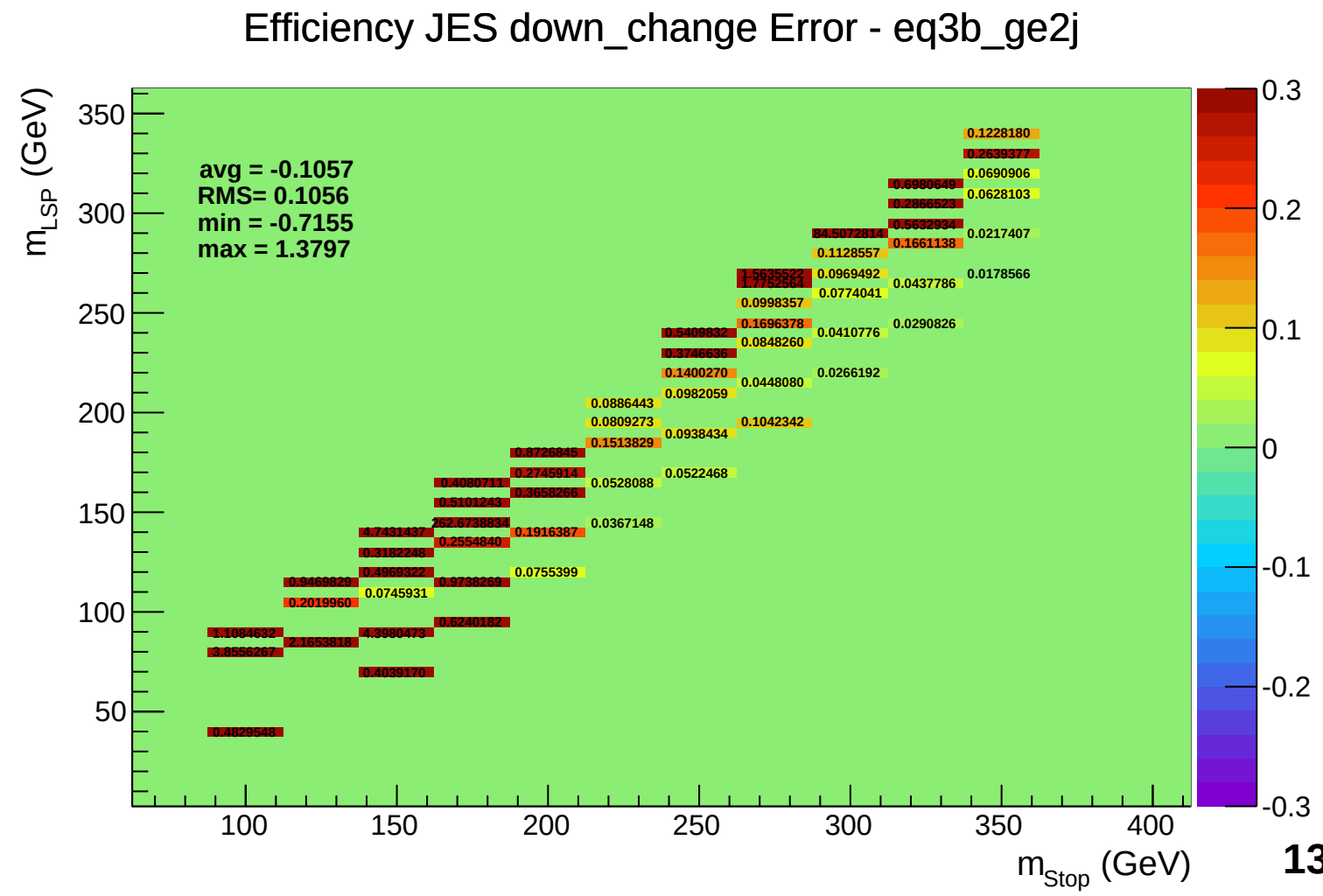

Efficiency JES up_change - eq3b_ge2j
avg = 2.6372
RMS= 358.0856
min = -0.4613
max = 147.9461
m_LSP (GeV)
m_Stop (GeV)
0.0257971
0.0356833
0.1495332
0.3233291
-0.2577200
0.4612822
0.1666491
47.9461471
0.3405601
0.4977401
0.1512450
1.3816264
-0.1886813
0.0606861
-0.0000116
0.1575650
0.0097674
-0.1230451
0.0040636
0.0000146
0.4572438
-0.0031253
-0.2064101
0.0024735
-0.1145749
0.1786094
-0.1663190
0.0017437
-0.0525385
0.1385079
0.1260208
0.7373549
-0.0637452
2.2887212
0.0163447
-0.0070195
0.0671850
-0.0028402
0.0010391
0.0213752
0.1782865
0.0001093
0.3306765
0.0629229
0.2658200
0.0608047
-0.0203621
0.7491344
0.0886521
-0.1308859
0.0316422
0.0801060
1.1661624
0.0006048
-0.0053936
1.6880513
-0.0571222
0.0481053
8


Efficiency JES up_change Error - eq3b_ge2j
avg = 2.6372
RMS= 358.0856
min = -0.4613
max = 147.9461
m_LSP (GeV)
m_Stop (GeV)
9


Efficiency JES down - eq3b_ge2j
avg = 0.0000
RMS= 0.0000
min = 0.0000
max = 0.0000
m_LSP (GeV)
m_Stop (GeV)
×10^-6
0.0000143
0.0000072
0.0000119
0.0000056
0.0000153
0.0000084
0.0000050
0.0000235
0.0000140
0.0000114
0.0000284
0.0000233
0.0000132
0.0000097
0.0000410
0.0000136
0.0000063
0.0000352
0.0000129
0.0000108
0.0000114
0.0000124
0.0000147
0.0000058
0.0000074
0.0000031
0.0000022
10


Efficiency JES down Error - eq3b_ge2j
avg = 0.0000
RMS= 0.0000
min = 0.0000
max = 0.0000
m_LSP (GeV)
m_Stop (GeV)
×10^-6
11


Efficiency JES down_change - eq3b_ge2j
avg = -0.1057
RMS= 0.1056
min = -0.7155
max = 1.3797
m_LSP (GeV)
m_Stop (GeV)
-0.0013552
0.0069535
-0.0017292
-0.2584781
0.1647643
-0.0032586
0.0005690
0.1607477
-0.2842495
-0.0010838
0.0302728
0.0095349
-0.1868792
-0.2692269
0.0177803
0.0158266
0.1676102
-0.0635342
-0.1184544
-0.0455124
-0.0442990
0.0030171
-0.1342256
-0.0042286
-0.1778042
0.0182434
0.0027248
-0.8070641
1.3796985
0.3020047
-0.0018772
-0.0002576
-0.0003597
-0.0007726
-0.1424339
0.0718970
-0.0010008
0.0191015
-0.0010195
-0.0010001
0.0301852
-0.0036003


Efficiency JES down_change Error - eq3b_ge2j
avg = -0.1057
RMS= 0.1056
min = -0.7155
max = 1.3797
m_LSP (GeV)
m_Stop (GeV)
350
300
250
200
150
100
50
100
150
200
250
300
350
400
0.3
0.2
0.1
0
-0.1
-0.2
-0.3
0.1228180
0.2639377
0.0690906
0.6980649
0.0628103
0.2866523
0.5632934
84.5072814
0.0217407
0.1661138
0.1128557
1.5635522
0.0969492
1.7752564
0.0178566
0.0437786
0.0774041
0.0998357
0.1696378
0.0290826
0.5409832
0.0410776
0.0848260
0.3746636
0.1400270
0.0266192
0.0448080
0.0982059
0.0886443
0.0809273
0.1042342
0.1513829
0.0938434
0.8726845
0.0522468
0.2745914
0.4080711
0.0528088
0.3658266
0.5101243
262.6738834
0.0367148
4.7431437
0.1916387
0.2554840
0.3182248
0.4969322
0.0755399
0.9469829
0.9738269
0.0745931
0.2019960
1.1084632
0.6240182
4.3980473
2.1653818
3.8556267
0.4039170
0.4829548
13