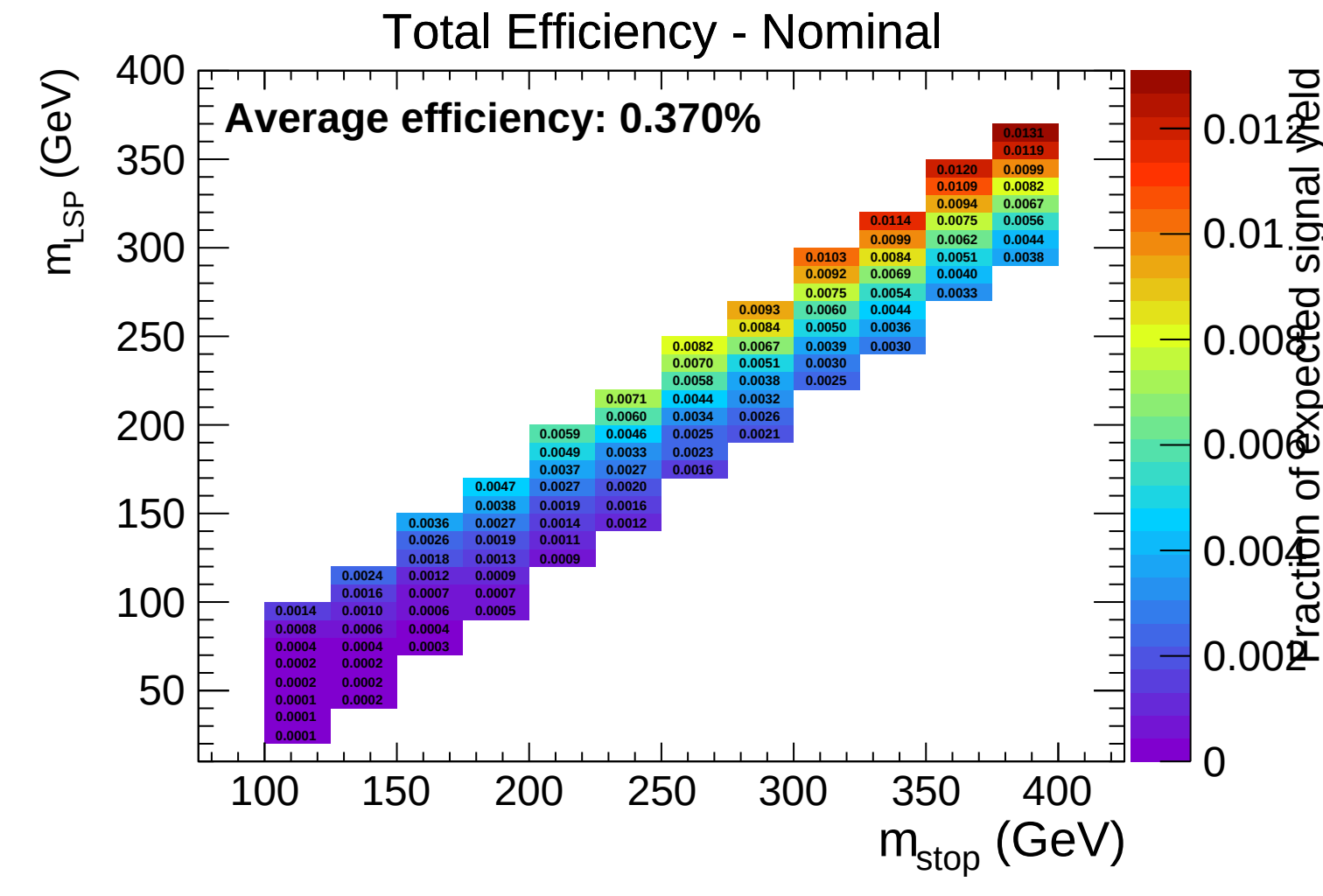
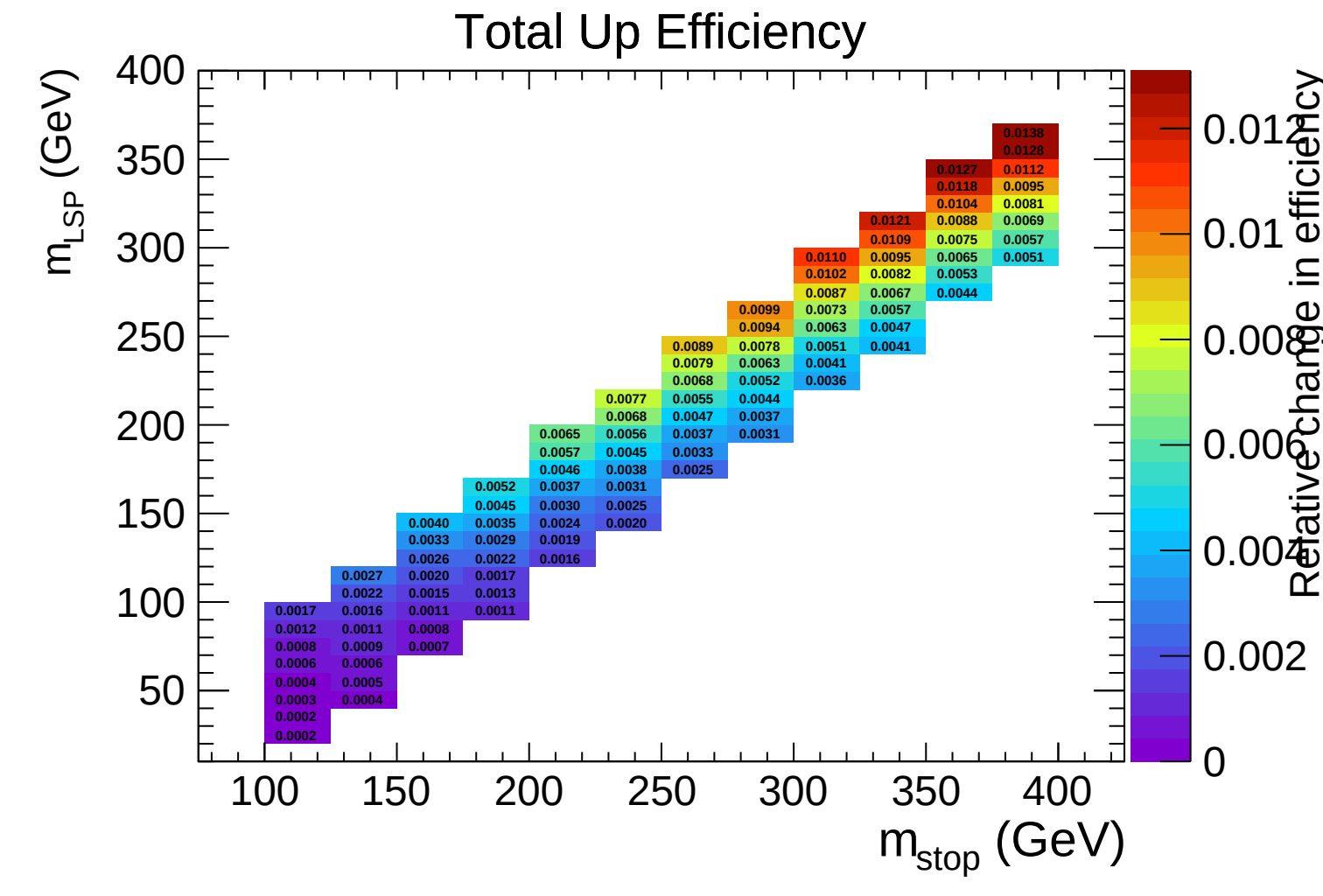
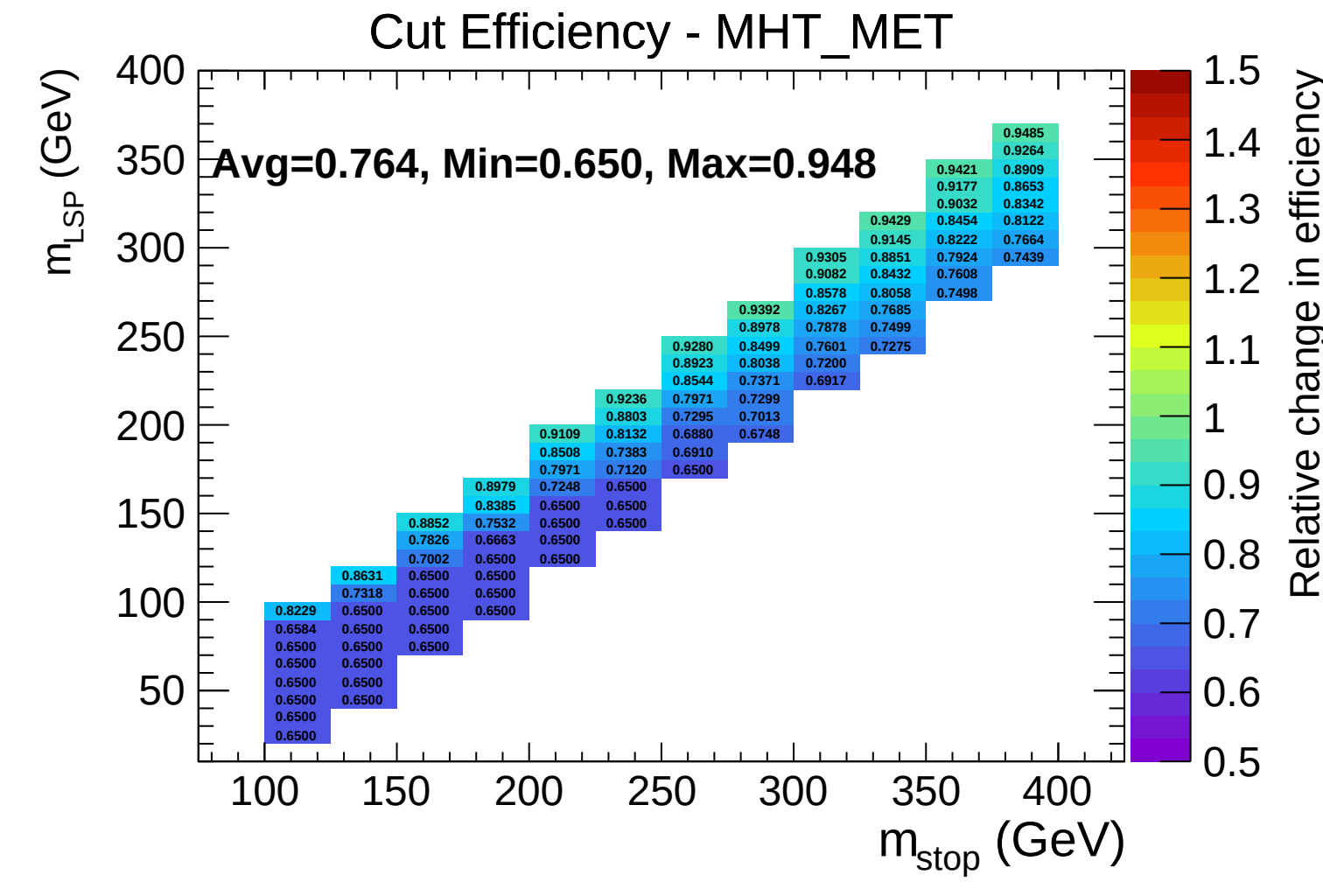

Total Efficiency - Nominal
Average efficiency: 0.370%
m_LSP (GeV)
m_stop (GeV)
Fraction of expected signal yield
400
350
300
250
200
150
100
50
100
150
200
250
300
350
400
0.0131
0.0119
0.0120
0.0109
0.0099
0.0094
0.0082
0.0067
0.0114
0.0075
0.0056
0.0099
0.0062
0.0044
0.0103
0.0092
0.0084
0.0069
0.0051
0.0040
0.0038
0.0075
0.0054
0.0033
0.0093
0.0060
0.0044
0.0084
0.0050
0.0036
0.0082
0.0067
0.0039
0.0030
0.0070
0.0051
0.0030
0.0058
0.0038
0.0025
0.0071
0.0044
0.0032
0.0060
0.0034
0.0026
0.0059
0.0046
0.0025
0.0021
0.0049
0.0033
0.0023
0.0037
0.0027
0.0016
0.0047
0.0027
0.0020
0.0038
0.0019
0.0016
0.0036
0.0027
0.0014
0.0012
0.0026
0.0019
0.0011
0.0018
0.0013
0.0009
0.0024
0.0012
0.0009
0.0016
0.0007
0.0007
0.0014
0.0010
0.0006
0.0005
0.0008
0.0006
0.0004
0.0004
0.0004
0.0003
0.0002
0.0002
0.0002
0.0002
0.0001
0.0002
0.0001
0.0001
0.0001
0.012
0.01
0.008
0.006
0.004
0.002
0


Total Up Efficiency
m_LSP (GeV)
m_stop (GeV)
Relative change in efficiency
400
350
300
250
200
150
100
50
100
150
200
250
300
350
400
0.014
0.012
0.01
0.008
0.006
0.004
0.002
0
0.0017
0.0012
0.0008
0.0006
0.0004
0.0003
0.0002
0.0002
0.0027
0.0022
0.0016
0.0011
0.0009
0.0006
0.0005
0.0004
0.0040
0.0033
0.0026
0.0020
0.0015
0.0011
0.0008
0.0007
0.0052
0.0045
0.0035
0.0029
0.0022
0.0017
0.0013
0.0011
0.0065
0.0057
0.0046
0.0037
0.0030
0.0024
0.0019
0.0016
0.0077
0.0068
0.0056
0.0047
0.0037
0.0033
0.0025
0.0020
0.0089
0.0079
0.0068
0.0063
0.0052
0.0044
0.0037
0.0031
0.0099
0.0094
0.0073
0.0063
0.0051
0.0041
0.0036
0.0110
0.0102
0.0087
0.0095
0.0082
0.0067
0.0057
0.0047
0.0041
0.0121
0.0109
0.0104
0.0088
0.0075
0.0065
0.0053
0.0044
0.0127
0.0118
0.0104
0.0095
0.0081
0.0069
0.0057
0.0051
0.0138
0.0128
0.0112


Cut Efficiency - MHT_MET
Avg=0.764, Min=0.650, Max=0.948
m_LSP (GeV)
m_stop (GeV)
Relative change in efficiency
400
350
300
250
200
150
100
50
100
150
200
250
300
350
400
1.5
1.4
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.8229
0.6584 0.6500
0.6500 0.6500 0.6500
0.6500 0.6500 0.6500 0.6500
0.6500 0.6500 0.6500 0.6500 0.6500
0.6500 0.6500 0.6500 0.6500 0.6500 0.6500
0.6500 0.6500 0.6500 0.6500 0.6500 0.6500 0.6500
0.6500 0.6500 0.6500 0.6500 0.6500 0.6500 0.6500 0.6500
0.8631
0.7318 0.6500
0.6500 0.6500 0.6500
0.6500 0.6500 0.6500 0.6500
0.6500 0.6500 0.6500 0.6500 0.6500
0.6500 0.6500 0.6500 0.6500 0.6500 0.6500
0.6500 0.6500 0.6500 0.6500 0.6500 0.6500 0.6500
0.8852
0.7826 0.6663
0.7002 0.6500 0.6500
0.6500 0.6500 0.6500 0.6500
0.6500 0.6500 0.6500 0.6500 0.6500
0.6500 0.6500 0.6500 0.6500 0.6500 0.6500
0.8979
0.8385 0.7532
0.7248 0.6500 0.6500
0.6500 0.6500 0.6500 0.6500
0.6500 0.6500 0.6500 0.6500 0.6500
0.9109
0.8508 0.7383
0.7971 0.7120 0.6500
0.6500 0.6500 0.6500 0.6500
0.9236
0.8803 0.8132
0.7295 0.6880 0.6910
0.6500 0.6500 0.6500
0.9280
0.8923 0.8544
0.7971 0.7299 0.7013
0.6500 0.6500 0.6500
0.9392
0.8978 0.8499
0.8038 0.7371 0.6748
0.6917
0.9305
0.9082 0.8578
0.8267 0.7878 0.7601
0.7200 0.6917
0.9429
0.9145 0.8851
0.8222 0.7924 0.7608
0.7498
0.9421
0.9177 0.9032
0.8454 0.8122 0.7664
0.7439
0.9485
0.9264 0.8909
0.8653 0.8342 0.8122
0.7664 0.7439