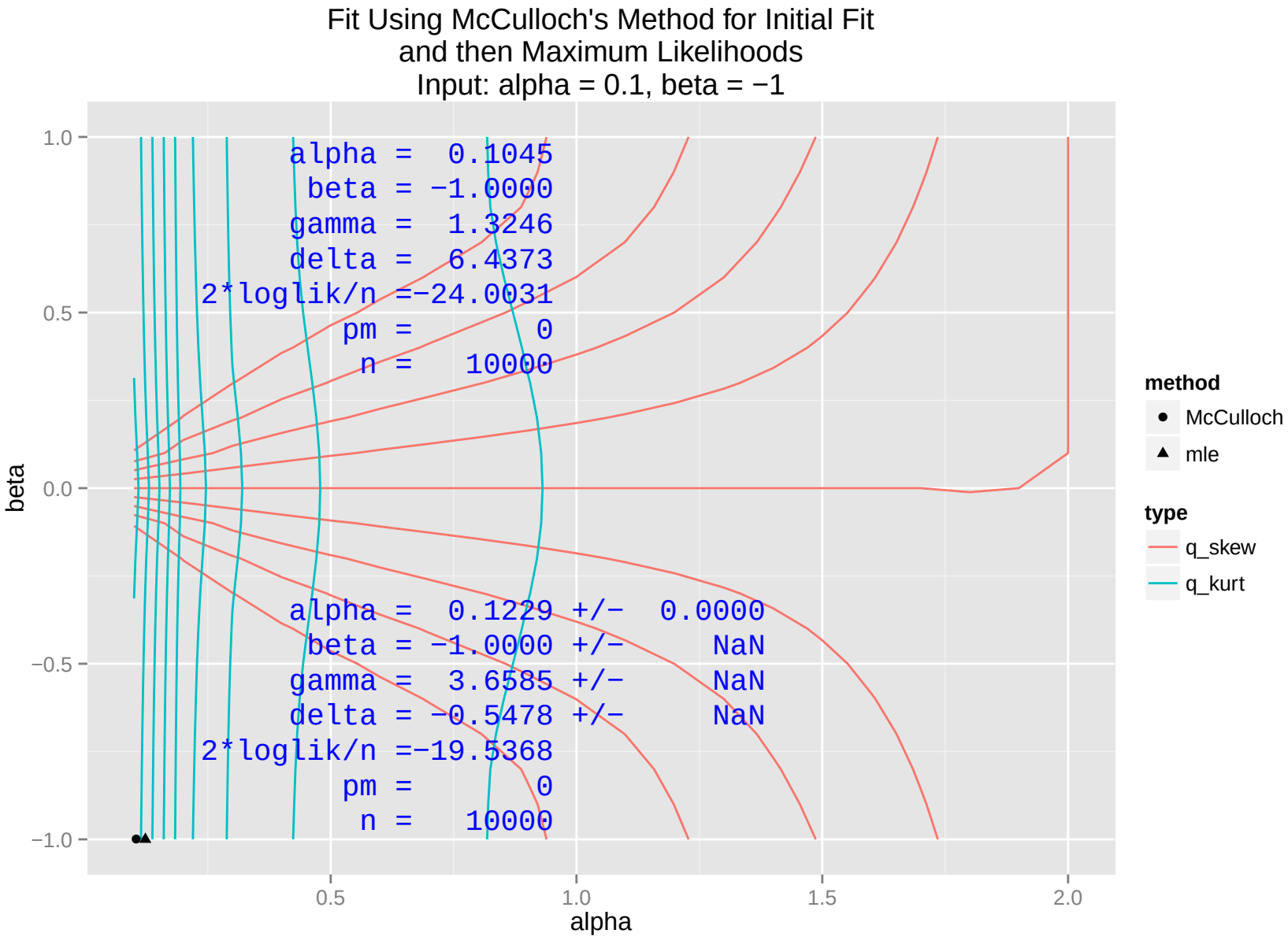
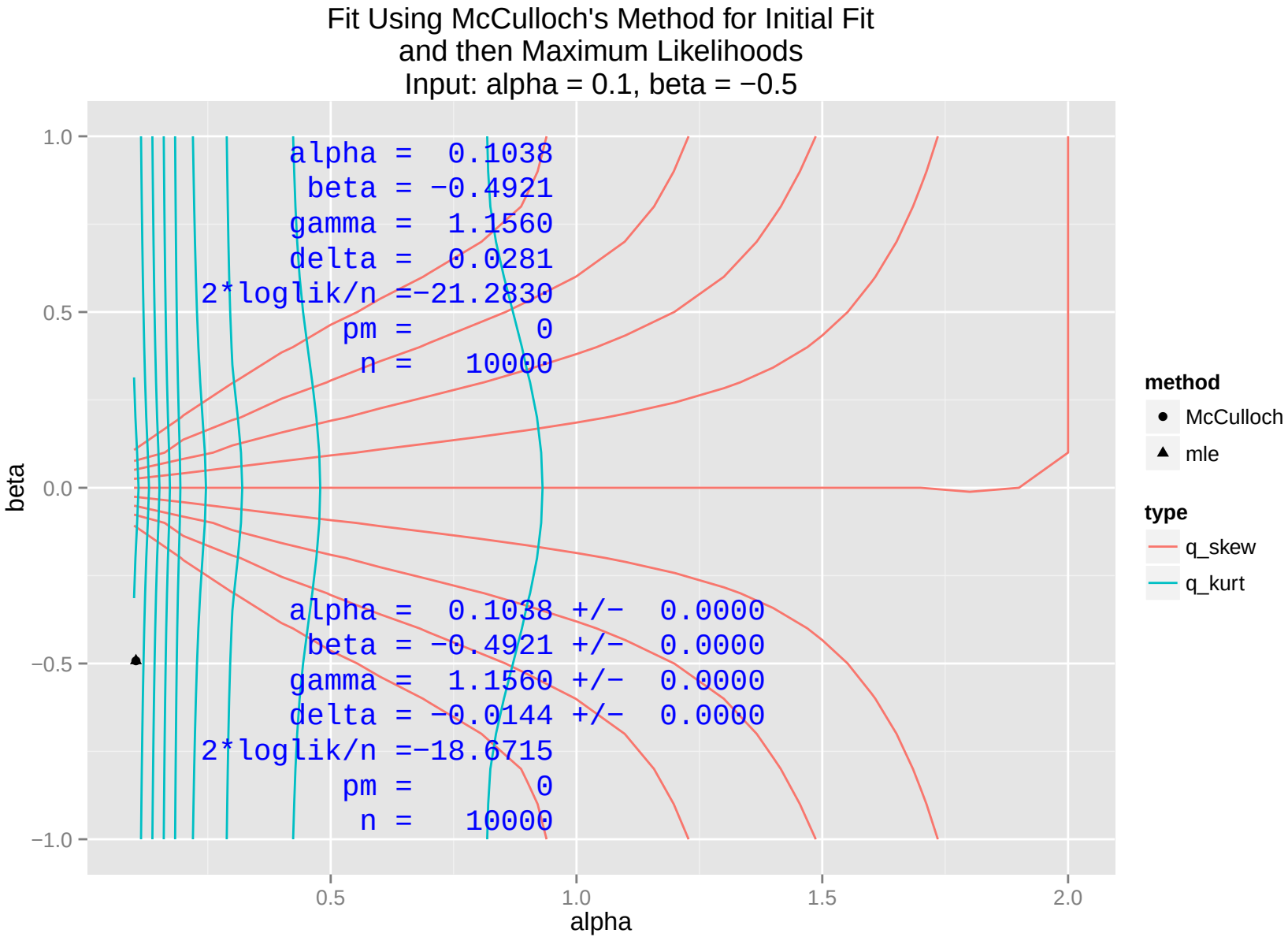
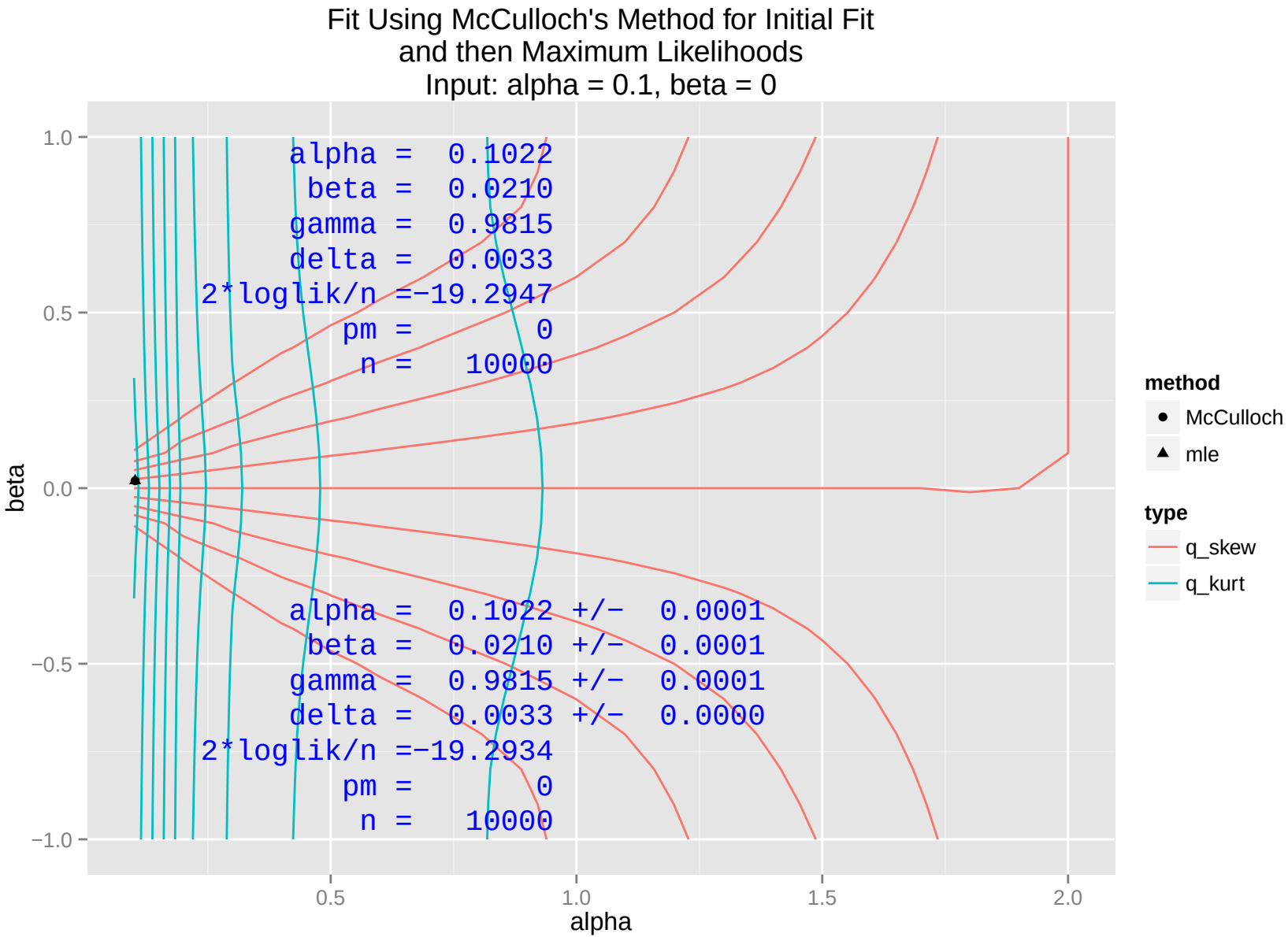
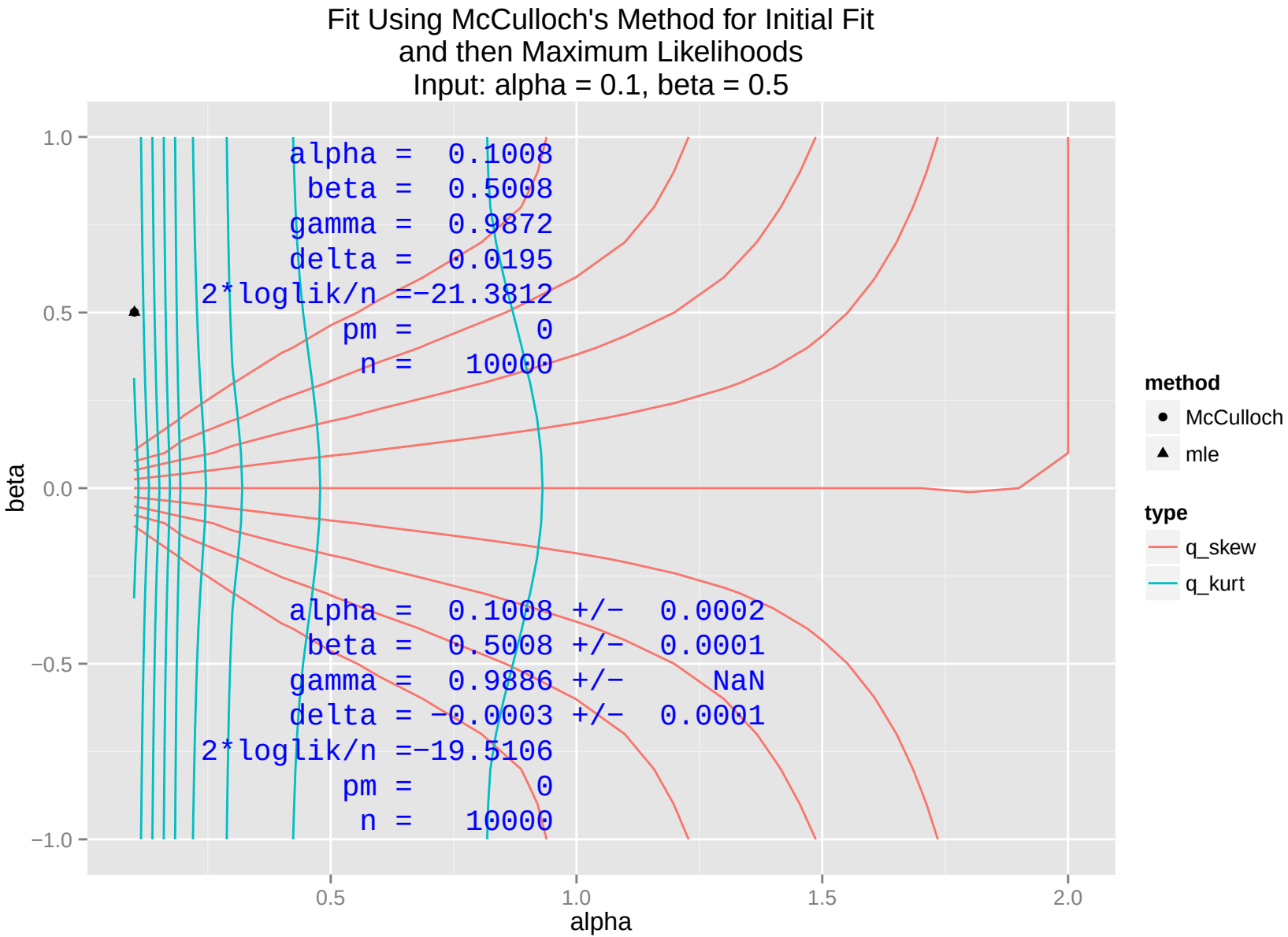
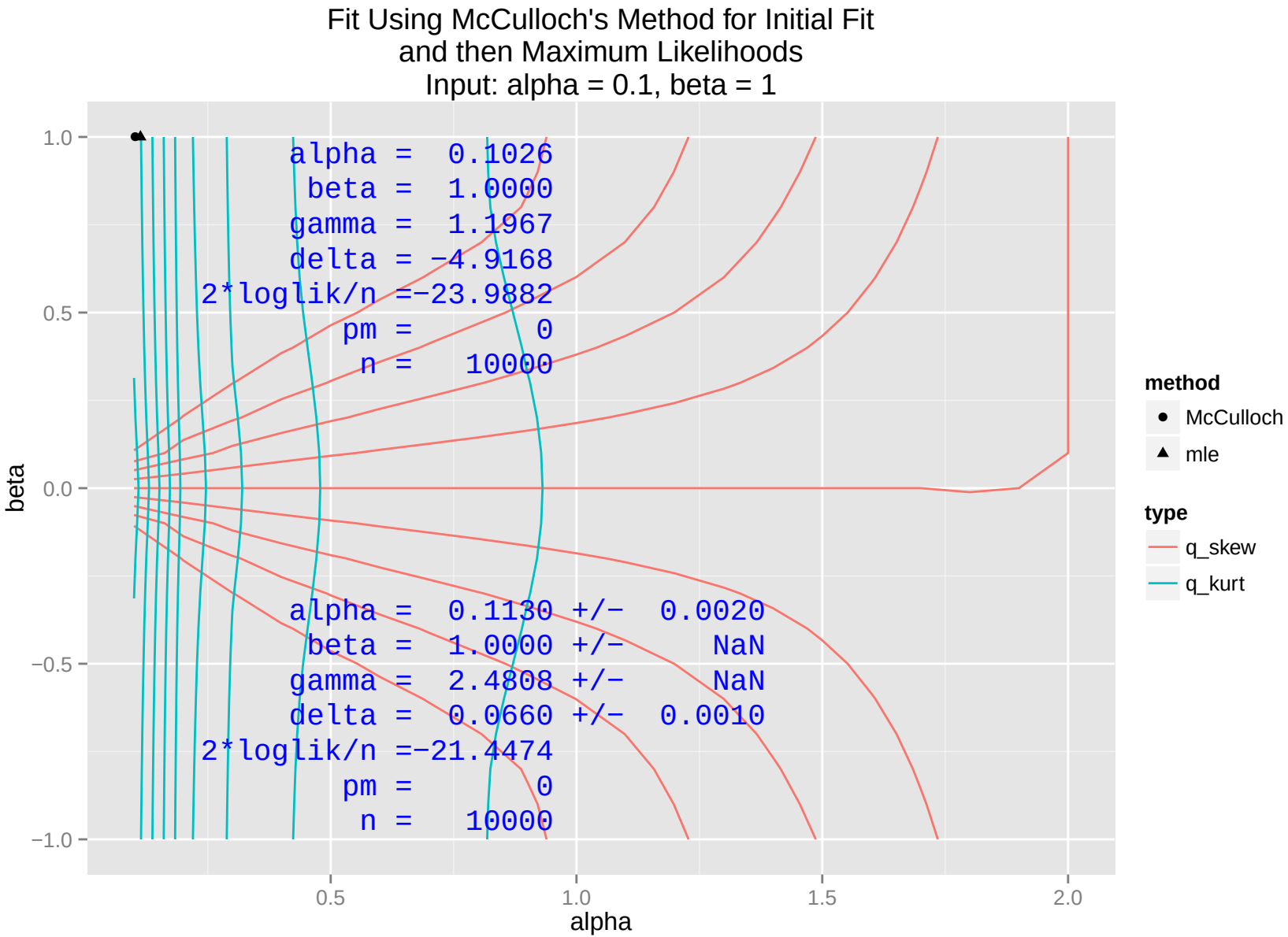
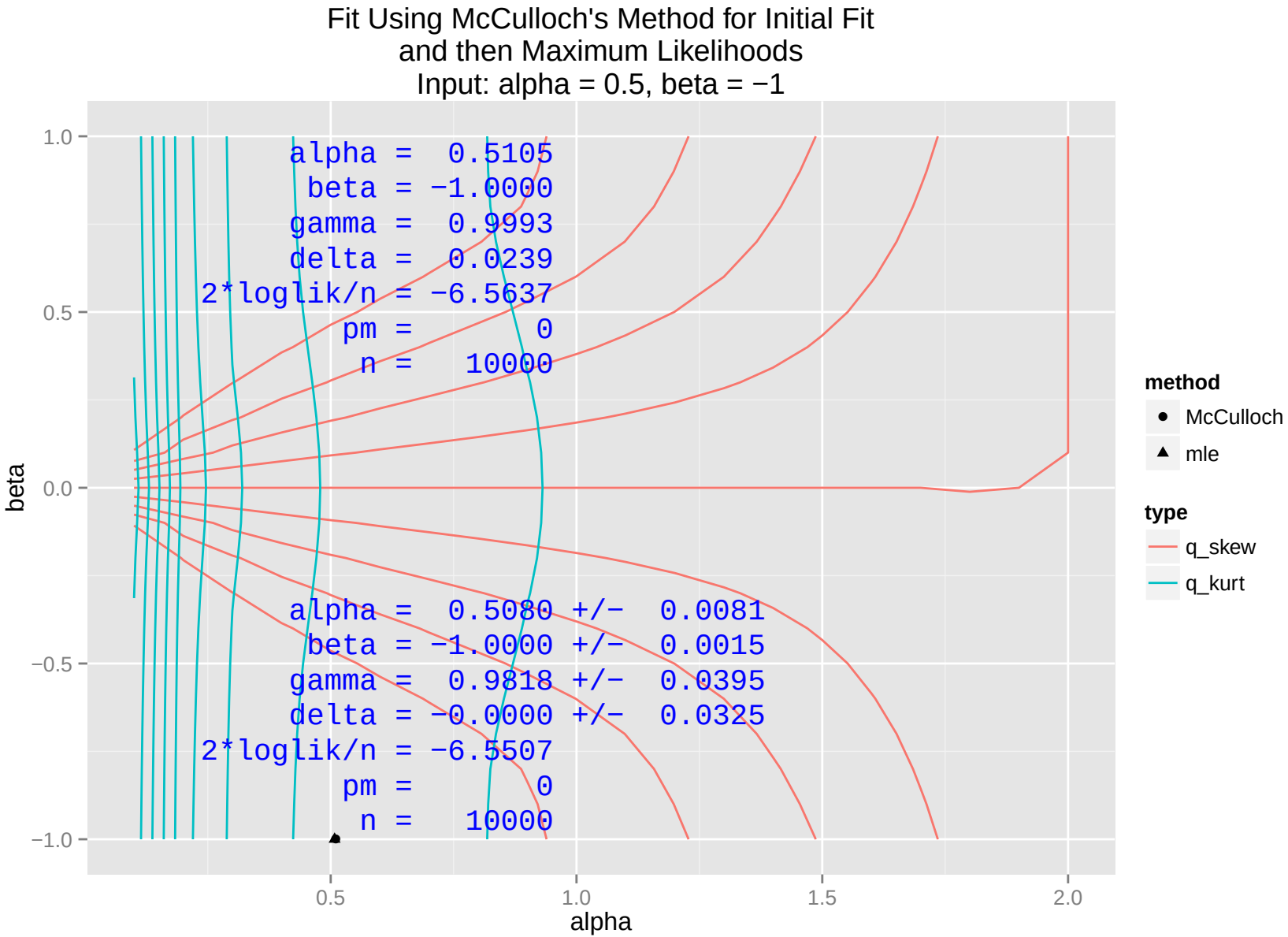

Fit Using McCulloch's Method for Initial Fit
and then Maximum Likelihoods
Input: alpha = 0.1, beta = −1
alpha = 0.1045
beta = −1.0000
gamma = 1.3246
delta = 6.4373
2*loglik/n =−24.0031
pm = 0
n = 10000
alpha = 0.1229 +/− 0.0000
beta = −1.0000 +/− NaN
gamma = 3.6585 +/− NaN
delta = −0.5478 +/− NaN
2*loglik/n =−19.5368
pm = 0
n = 10000
beta
alpha
1.0
0.5
0.0
−0.5
−1.0
0.5
1.0
1.5
2.0
method
McCulloch
mle
type
q_skew
q_kurt

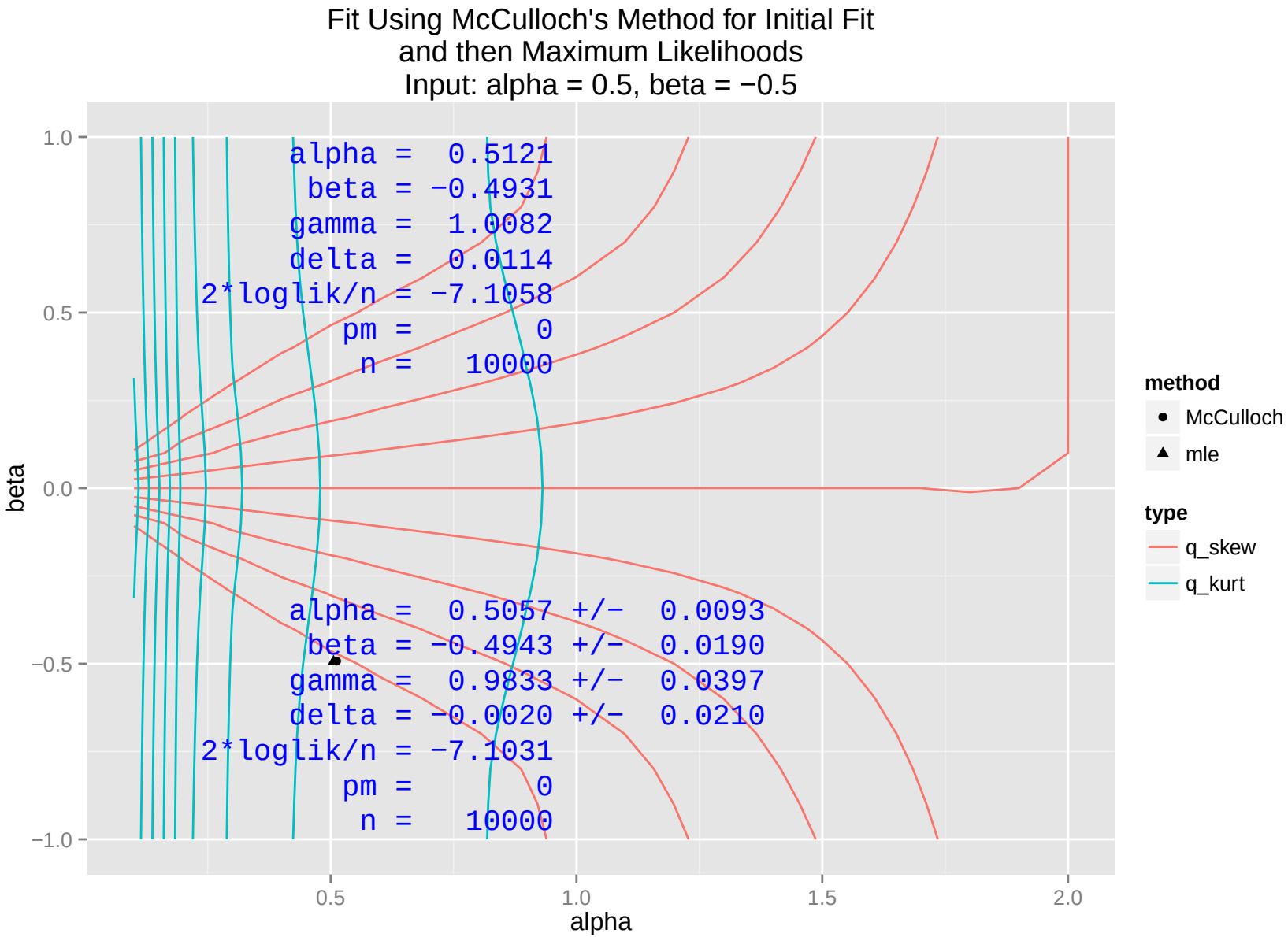

Fit Using McCulloch's Method for Initial Fit
and then Maximum Likelihoods
Input: alpha = 0.1, beta = −0.5
alpha = 0.1038
beta = −0.4921
gamma = 1.1560
delta = 0.0281
2*loglik/n =−21.2830
pm = 0
n = 10000
alpha = 0.1038 +/− 0.0000
beta = −0.4921 +/− 0.0000
gamma = 1.1560 +/− 0.0000
delta = −0.0144 +/− 0.0000
2*loglik/n =−18.6715
pm = 0
n = 10000
beta
alpha
1.0
0.5
0.0
−0.5
−1.0
0.5
1.0
1.5
2.0
method
McCulloch
mle
type
q_skew
q_kurt

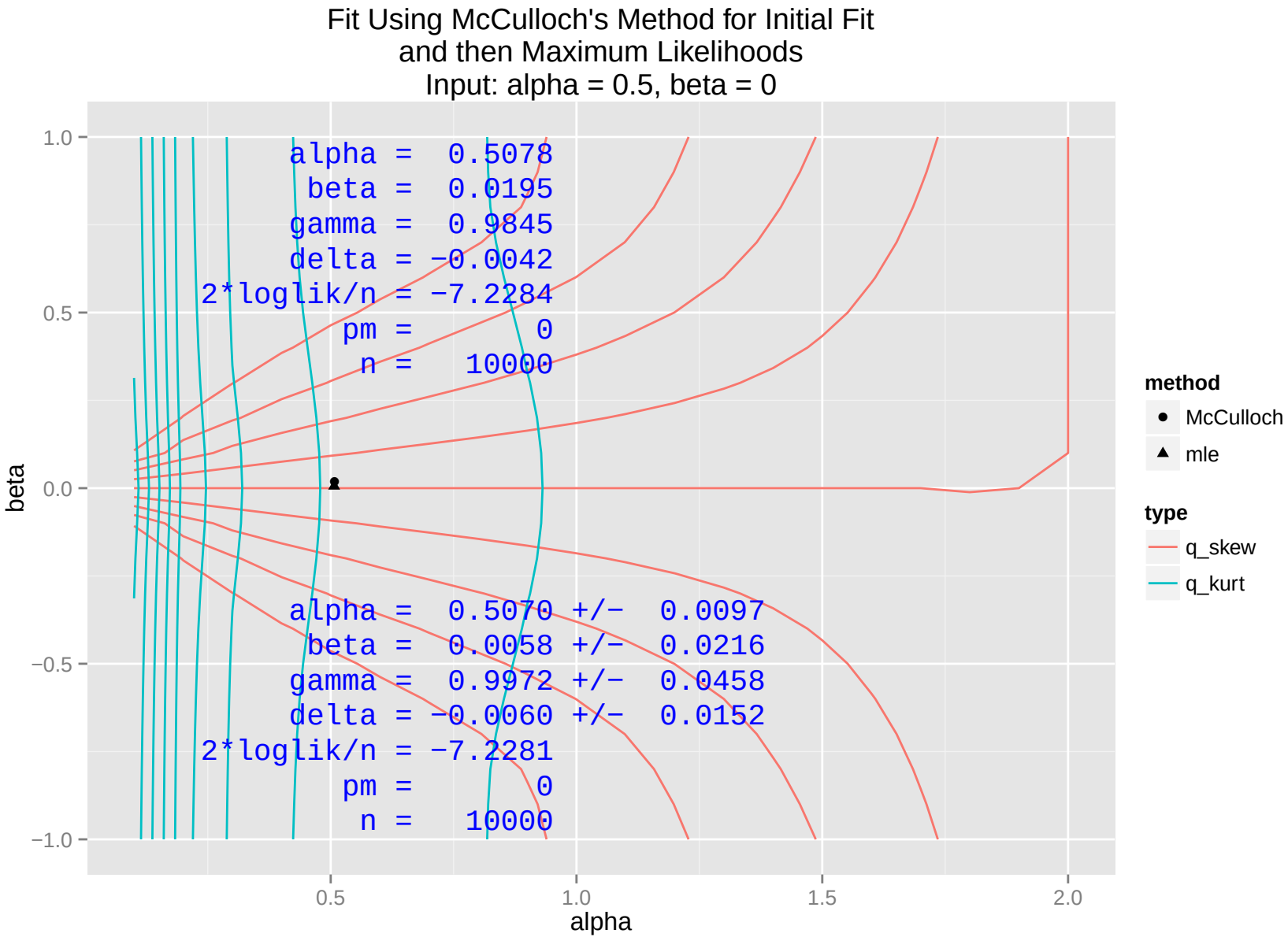

Fit Using McCulloch's Method for Initial Fit
and then Maximum Likelihoods
Input: alpha = 0.1, beta = 0
alpha = 0.1022
beta = 0.0210
gamma = 0.9815
delta = 0.0033
2*loglik/n =-19.2947
pm = 0
n = 10000
alpha = 0.1022 +/- 0.0001
beta = 0.0210 +/- 0.0001
gamma = 0.9815 +/- 0.0001
delta = 0.0033 +/- 0.0000
2*loglik/n =-19.2934
pm = 0
n = 10000
beta
alpha
1.0
0.5
0.0
−0.5
−1.0
0.5
1.0
1.5
2.0
method
McCulloch
mle
type
q_skew
q_kurt

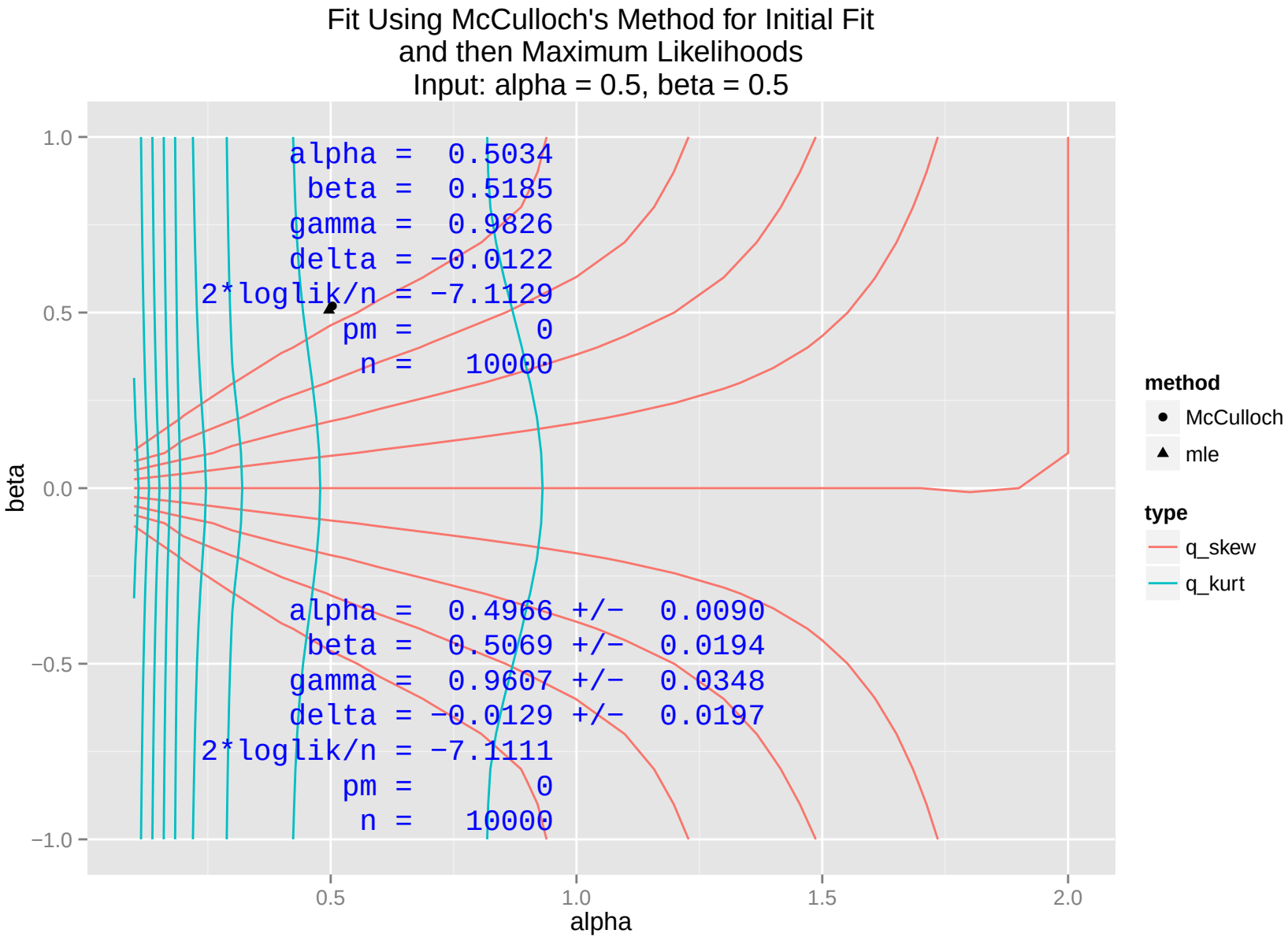

Fit Using McCulloch's Method for Initial Fit
and then Maximum Likelihoods
Input: alpha = 0.1, beta = 0.5
alpha = 0.1008
beta = 0.5008
gamma = 0.9872
delta = 0.0195
2*loglik/n =-21.3812
pm = 0
n = 10000
alpha = 0.1008 +/- 0.0002
beta = 0.5008 +/- 0.0001
gamma = 0.9886 +/- NaN
delta = -0.0003 +/- 0.0001
2*loglik/n =-19.5106
pm = 0
n = 10000
beta
alpha
1.0
0.5
0.0
−0.5
−1.0
0.5
1.0
1.5
2.0
method
McCulloch
mle
type
q_skew
q_kurt

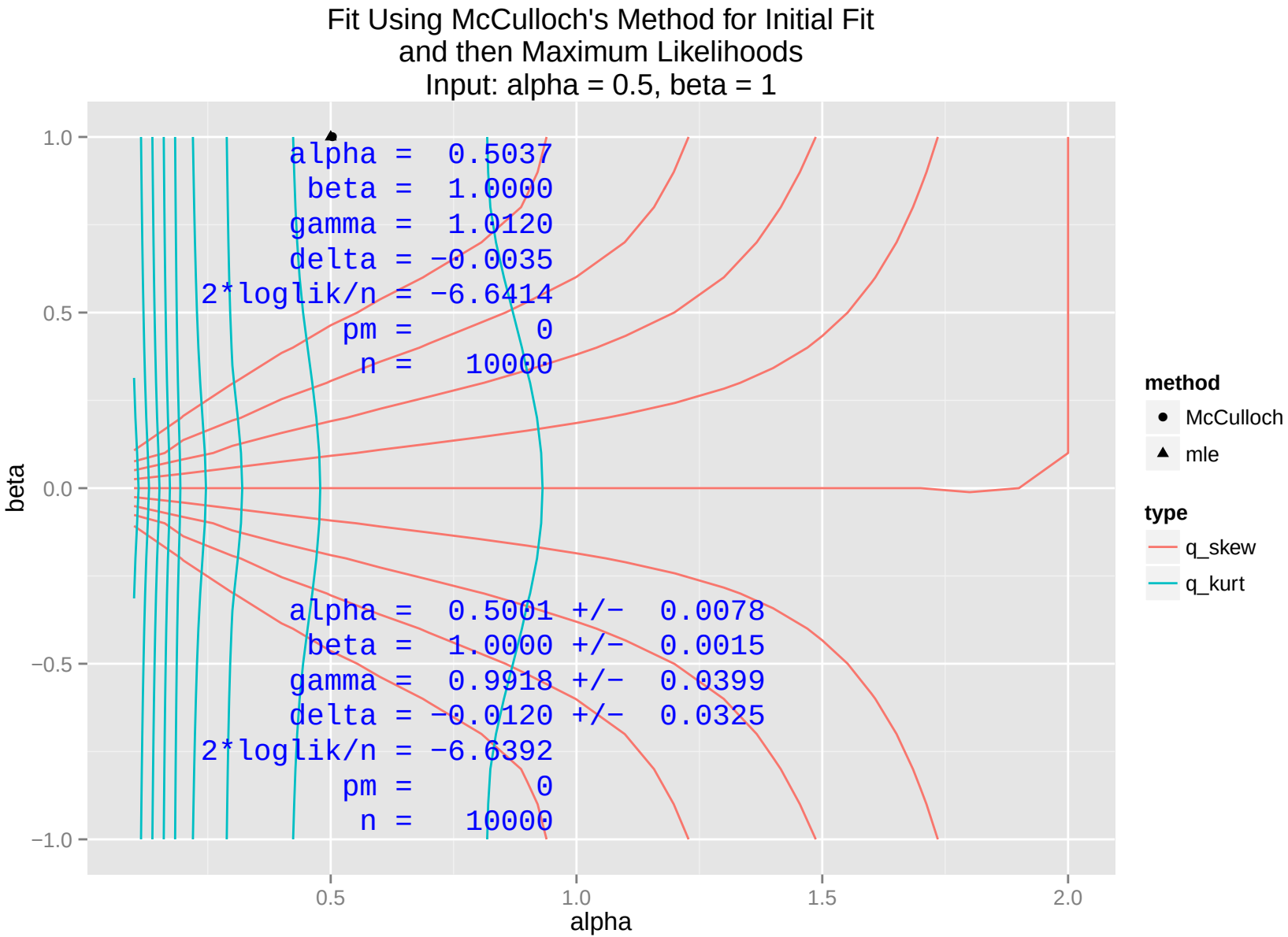

Fit Using McCulloch's Method for Initial Fit
and then Maximum Likelihoods
Input: alpha = 0.1, beta = 1
alpha = 0.1026
beta = 1.0000
gamma = 1.1967
delta = -4.9168
2*loglik/n =-23.9882
pm = 0
n = 10000
alpha = 0.1130 +/- 0.0020
beta = 1.0000 +/- NaN
gamma = 2.4808 +/- NaN
delta = 0.0660 +/- 0.0010
2*loglik/n =-21.4474
pm = 0
n = 10000
beta
alpha
1.0
0.5
0.0
−0.5
−1.0
0.5
1.0
1.5
2.0
method
McCulloch
mle
type
q_skew
q_kurt


Fit Using McCulloch's Method for Initial Fit
and then Maximum Likelihoods
Input: alpha = 0.5, beta = −1
alpha = 0.5105
beta = −1.0000
gamma = 0.9993
delta = 0.0239
2*loglik/n = −6.5637
pm = 0
n = 10000
alpha = 0.5080 +/− 0.0081
beta = −1.0000 +/− 0.0015
gamma = 0.9818 +/− 0.0395
delta = −0.0000 +/− 0.0325
2*loglik/n = −6.5507
pm = 0
n = 10000
beta
alpha
1.0
0.5
0.0
−0.5
−1.0
0.5
1.0
1.5
2.0
method
McCulloch
mle
type
q_skew
q_kurt


Fit Using McCulloch's Method for Initial Fit
and then Maximum Likelihoods
Input: alpha = 0.5, beta = −0.5
alpha = 0.5121
beta = −0.4931
gamma = 1.0082
delta = 0.0114
2*loglik/n = −7.1058
pm = 0
n = 10000
alpha = 0.5057 +/− 0.0093
beta = −0.4943 +/− 0.0190
gamma = 0.9833 +/− 0.0397
delta = −0.0020 +/− 0.0210
2*loglik/n = −7.1031
pm = 0
n = 10000
beta
alpha
1.0
0.5
0.0
−0.5
−1.0
0.5
1.0
1.5
2.0
method
McCulloch
mle
type
q_skew
q_kurt


Fit Using McCulloch's Method for Initial Fit
and then Maximum Likelihoods
Input: alpha = 0.5, beta = 0
alpha = 0.5078
beta = 0.0195
gamma = 0.9845
delta = −0.0042
2*loglik/n = −7.2284
pm = 0
n = 10000
alpha = 0.5070 +/− 0.0097
beta = 0.0058 +/− 0.0216
gamma = 0.9972 +/− 0.0458
delta = −0.0060 +/− 0.0152
2*loglik/n = −7.2281
pm = 0
n = 10000
beta
alpha
1.0
0.5
0.0
−0.5
−1.0
0.5
1.0
1.5
2.0
method
McCulloch
mle
type
q_skew
q_kurt


Fit Using McCulloch's Method for Initial Fit
and then Maximum Likelihoods
Input: alpha = 0.5, beta = 0.5
alpha = 0.5034
beta = 0.5185
gamma = 0.9826
delta = −0.0122
2*loglik/n = −7.1129
pm = 0
n = 10000
alpha = 0.4966 +/− 0.0090
beta = 0.5069 +/− 0.0194
gamma = 0.9607 +/− 0.0348
delta = −0.0129 +/− 0.0197
2*loglik/n = −7.1111
pm = 0
n = 10000
beta
alpha
1.0
0.5
0.0
−0.5
−1.0
0.5
1.0
1.5
2.0
method
McCulloch
mle
type
q_skew
q_kurt


Fit Using McCulloch's Method for Initial Fit
and then Maximum Likelihoods
Input: alpha = 0.5, beta = 1
alpha = 0.5037
beta = 1.0000
gamma = 1.0120
delta = -0.0035
2*loglik/n = -6.6414
pm = 0
n = 10000
alpha = 0.5001 +/- 0.0078
beta = 1.0000 +/- 0.0015
gamma = 0.9918 +/- 0.0399
delta = -0.0120 +/- 0.0325
2*loglik/n = -6.6392
pm = 0
n = 10000
beta
alpha
1.0
0.5
0.0
-0.5
-1.0
0.5
1.0
1.5
2.0
method
McCulloch
mle
type
q_skew
q_kurt