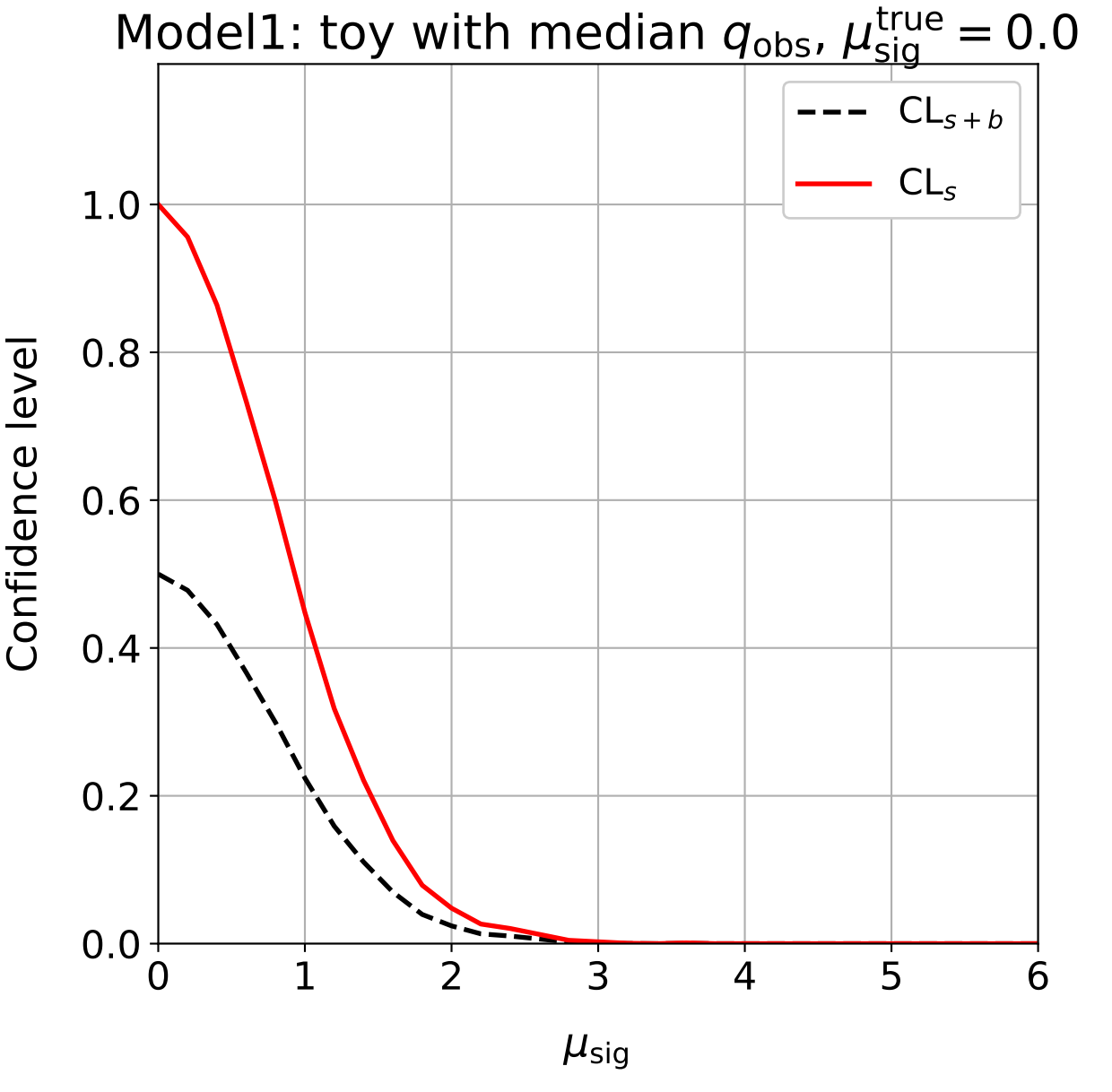
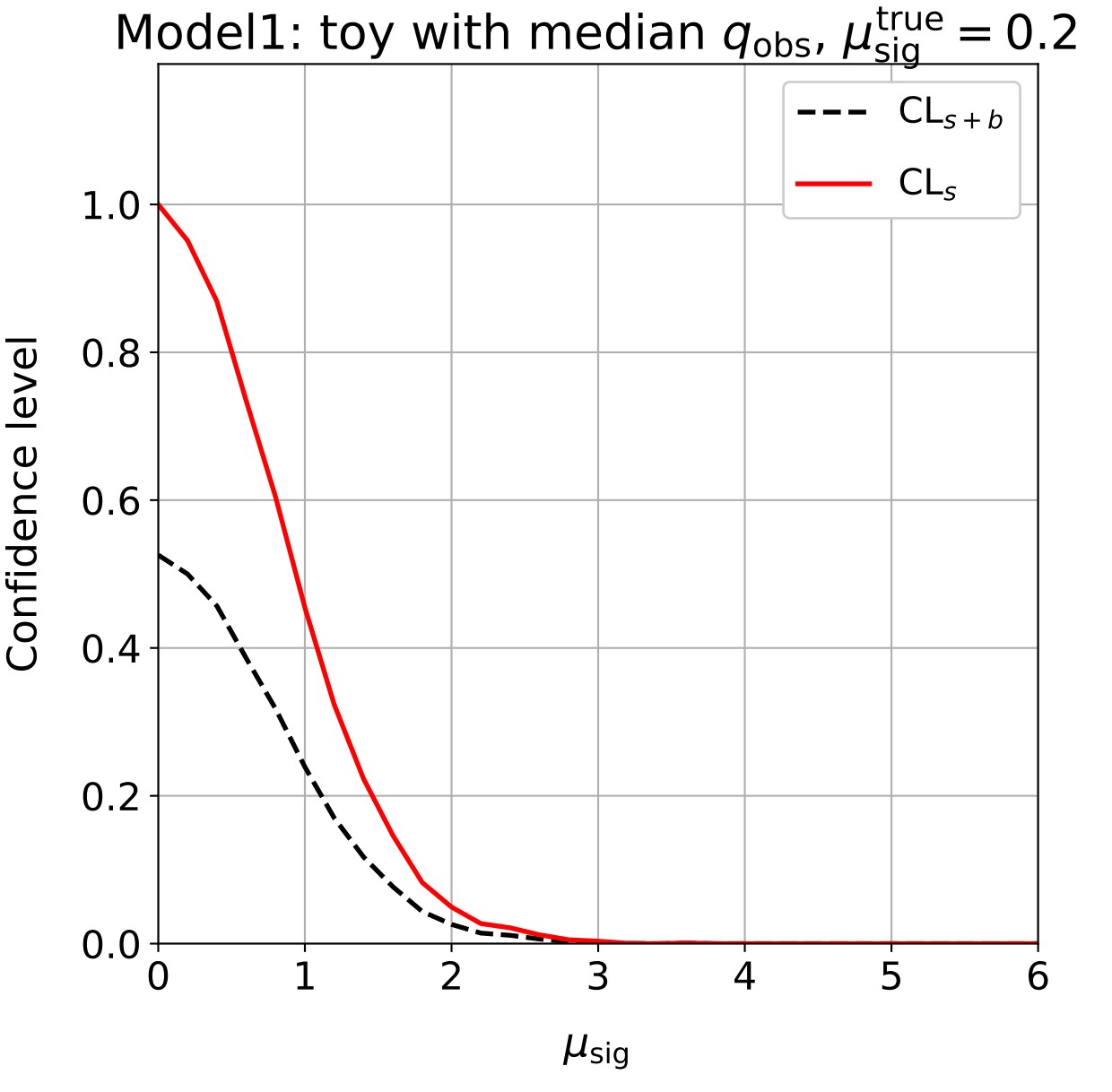
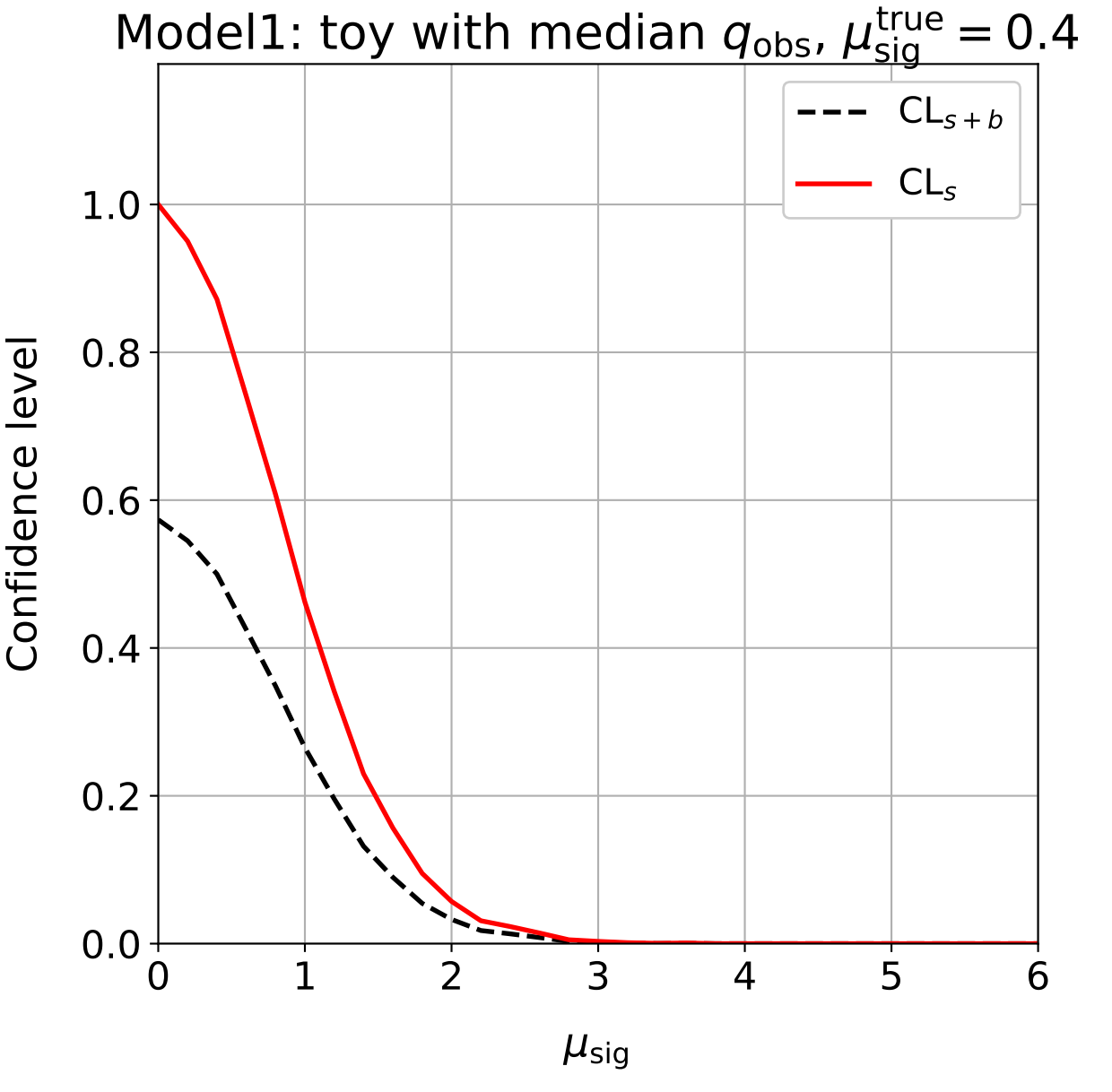
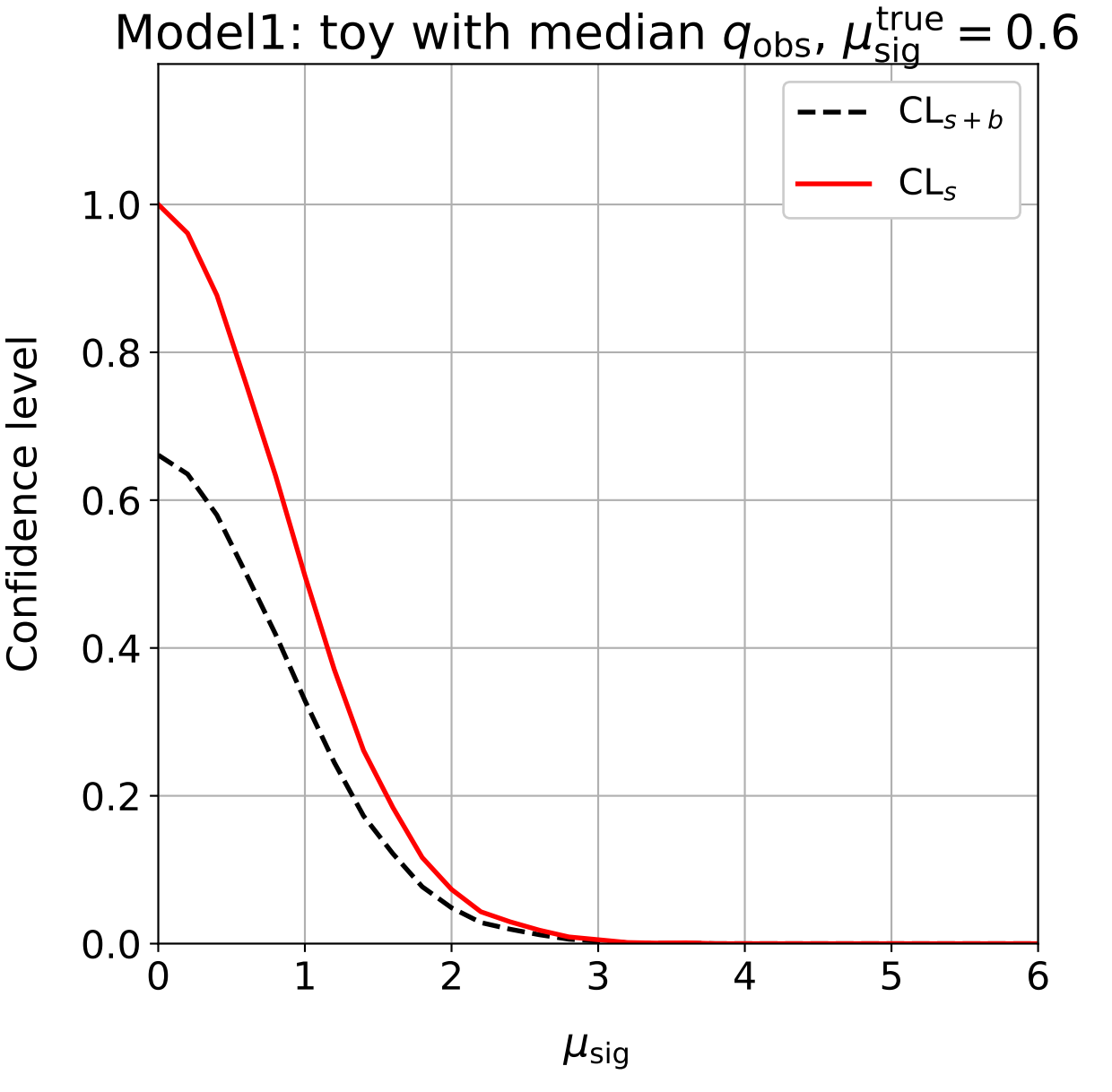
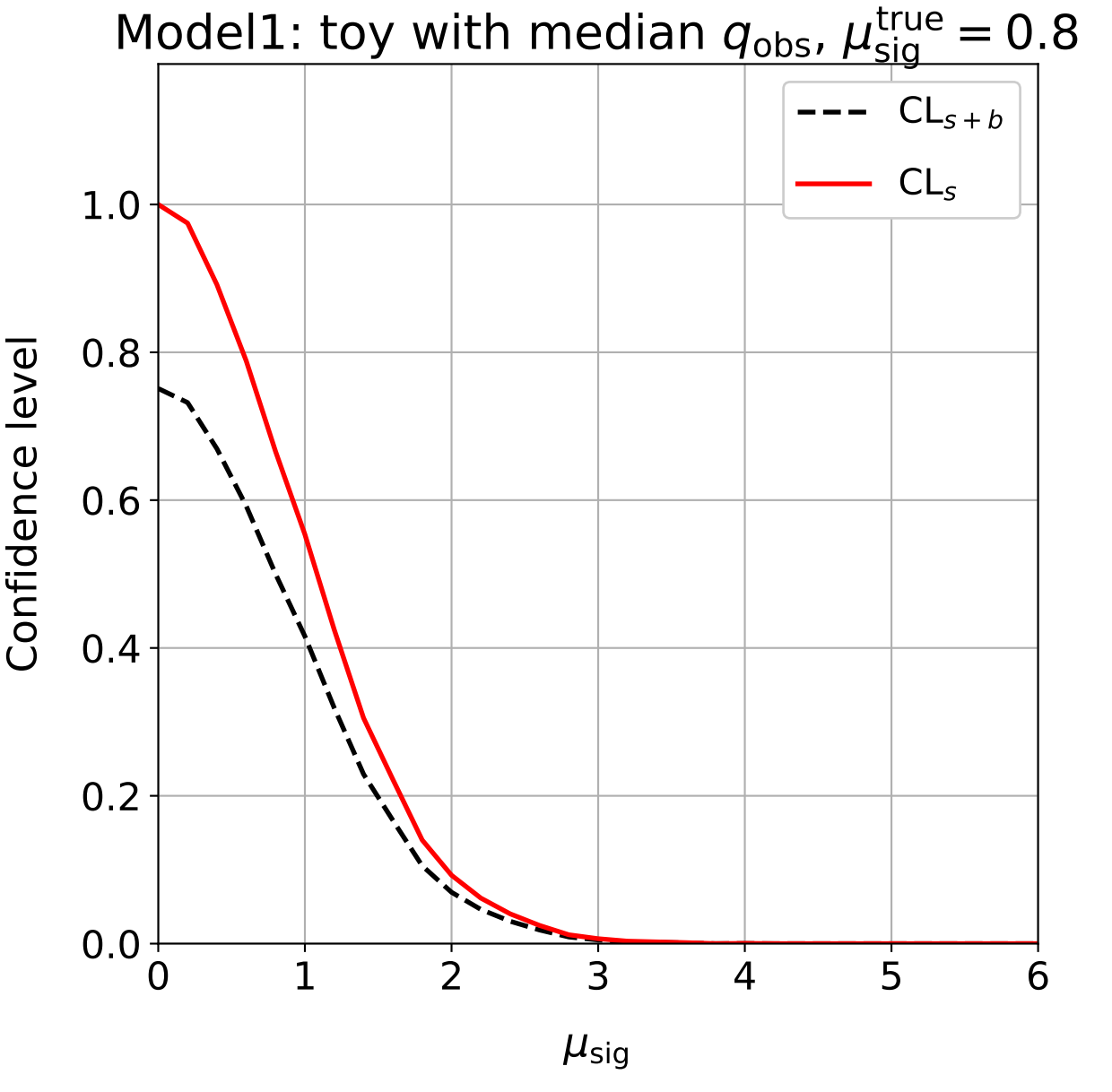
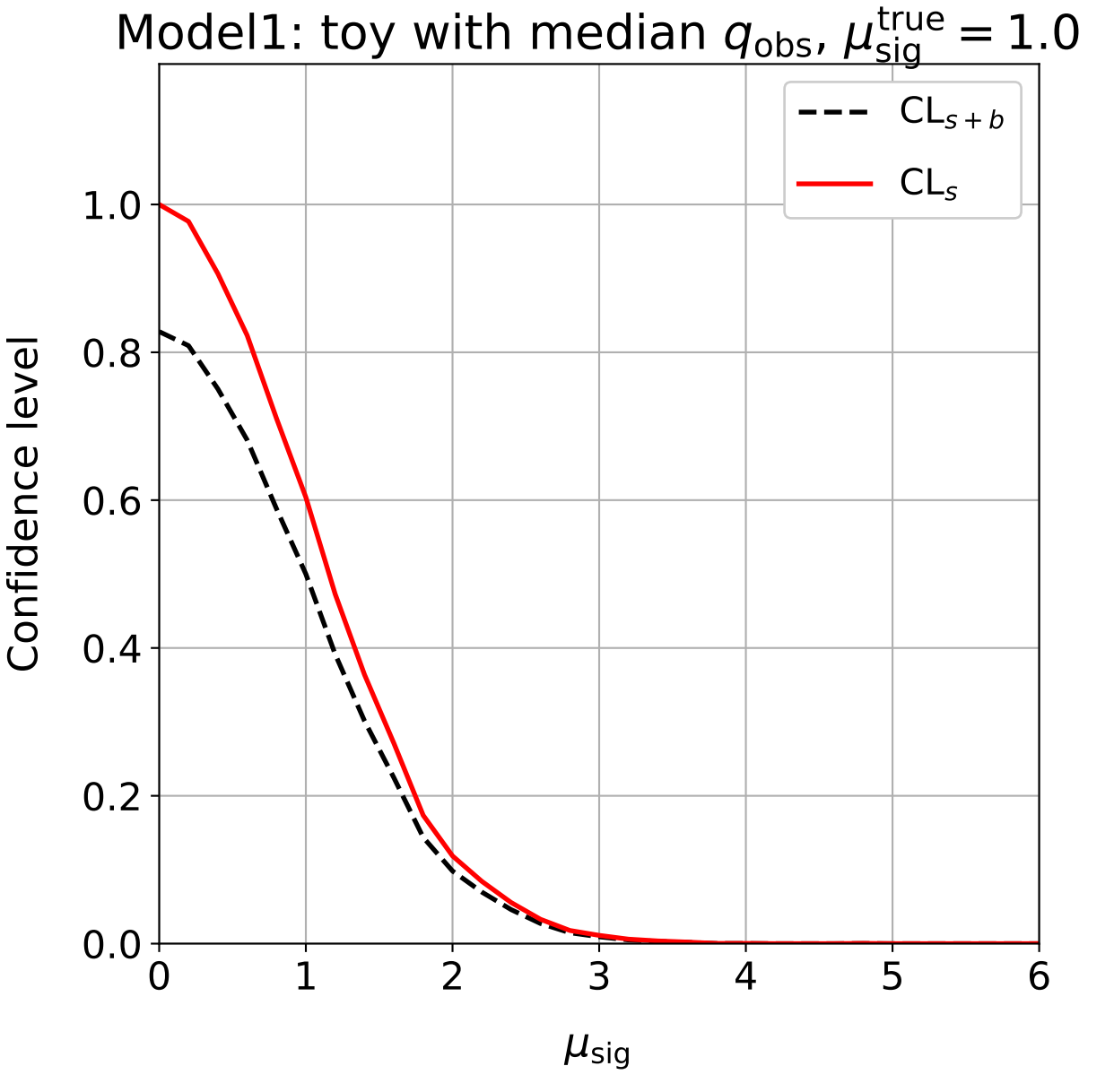

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 0.0$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

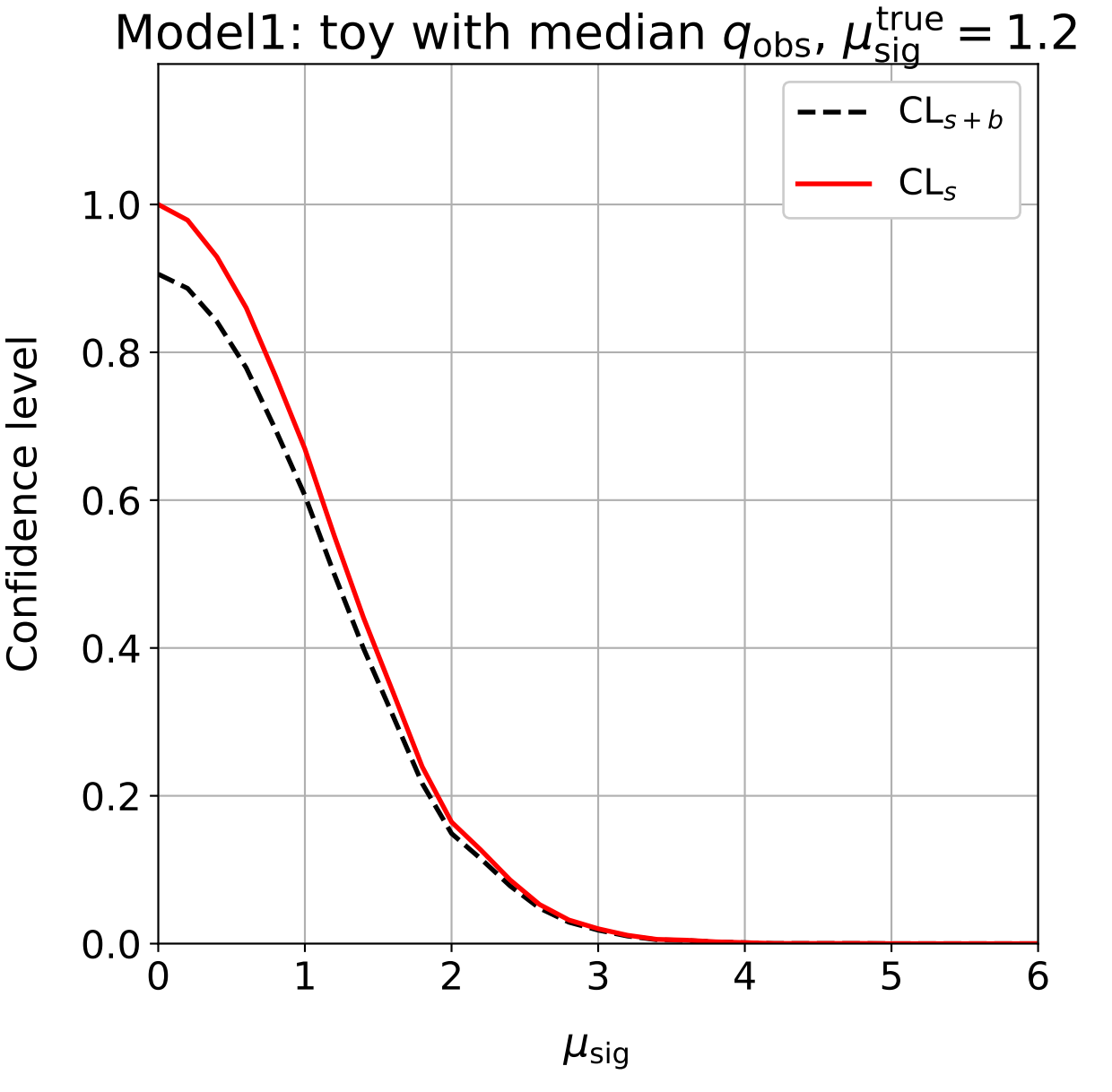

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 0.2$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

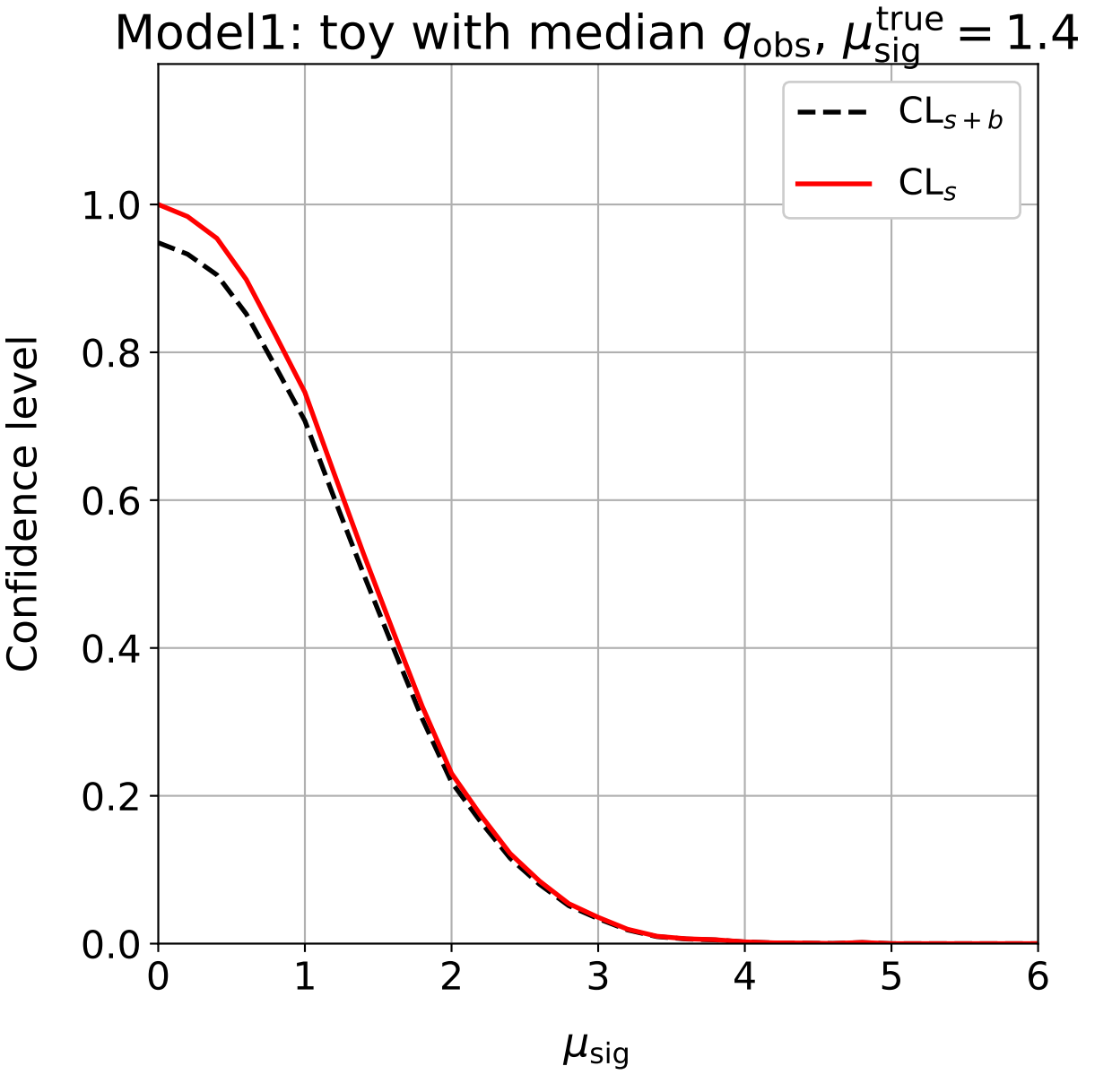

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 0.4$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

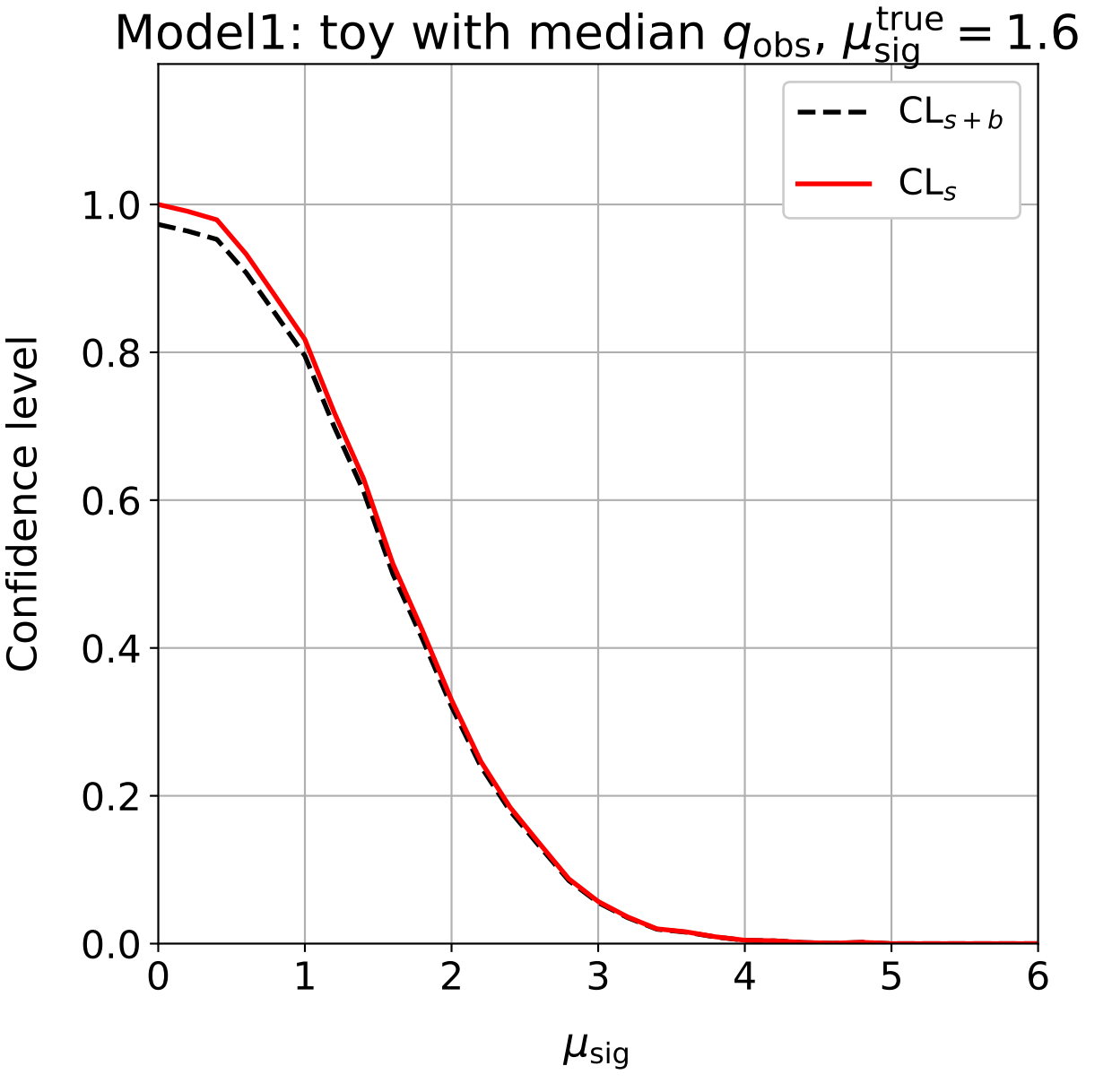

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 0.6$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

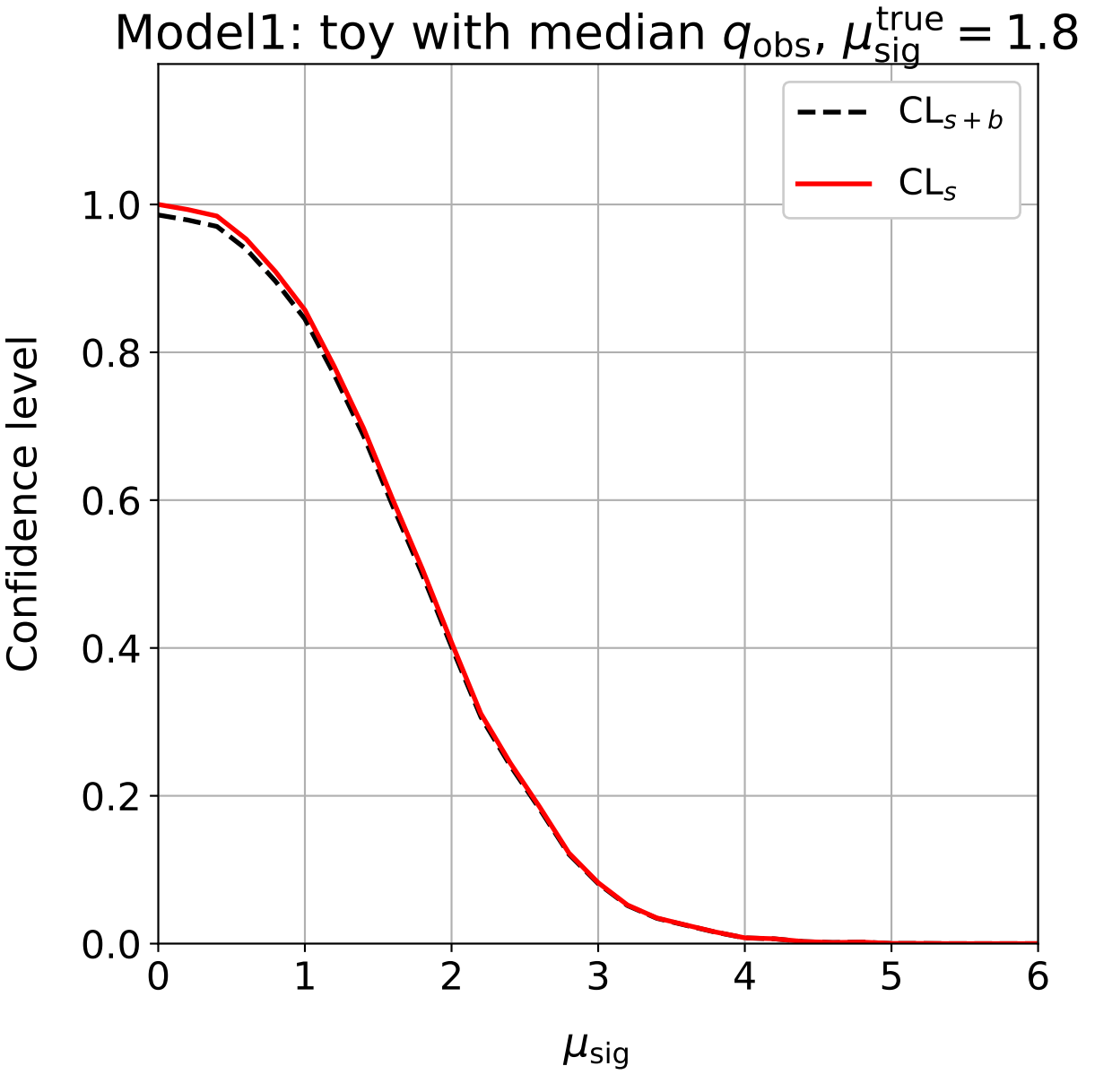

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 0.8$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

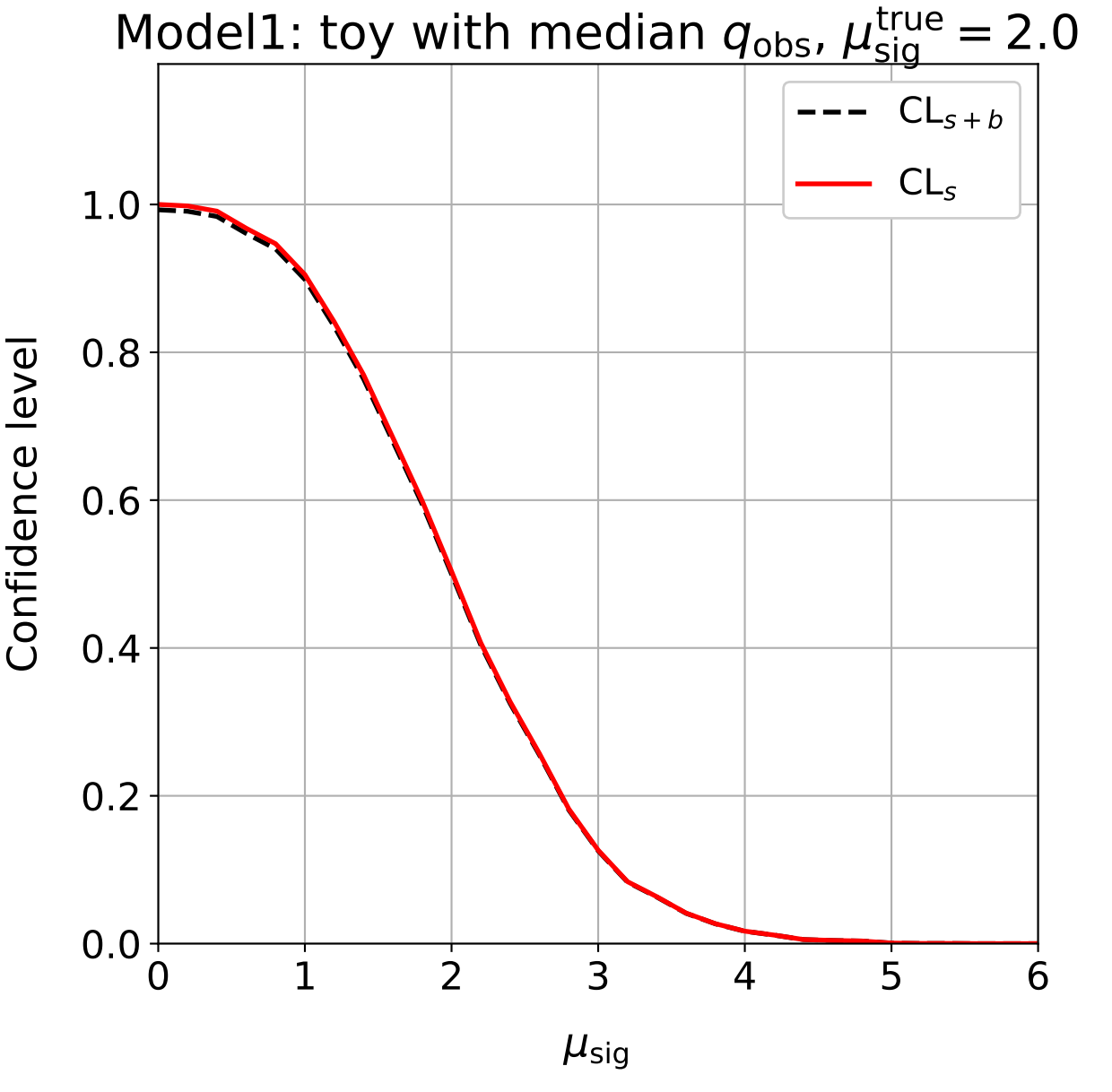

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 1.0$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

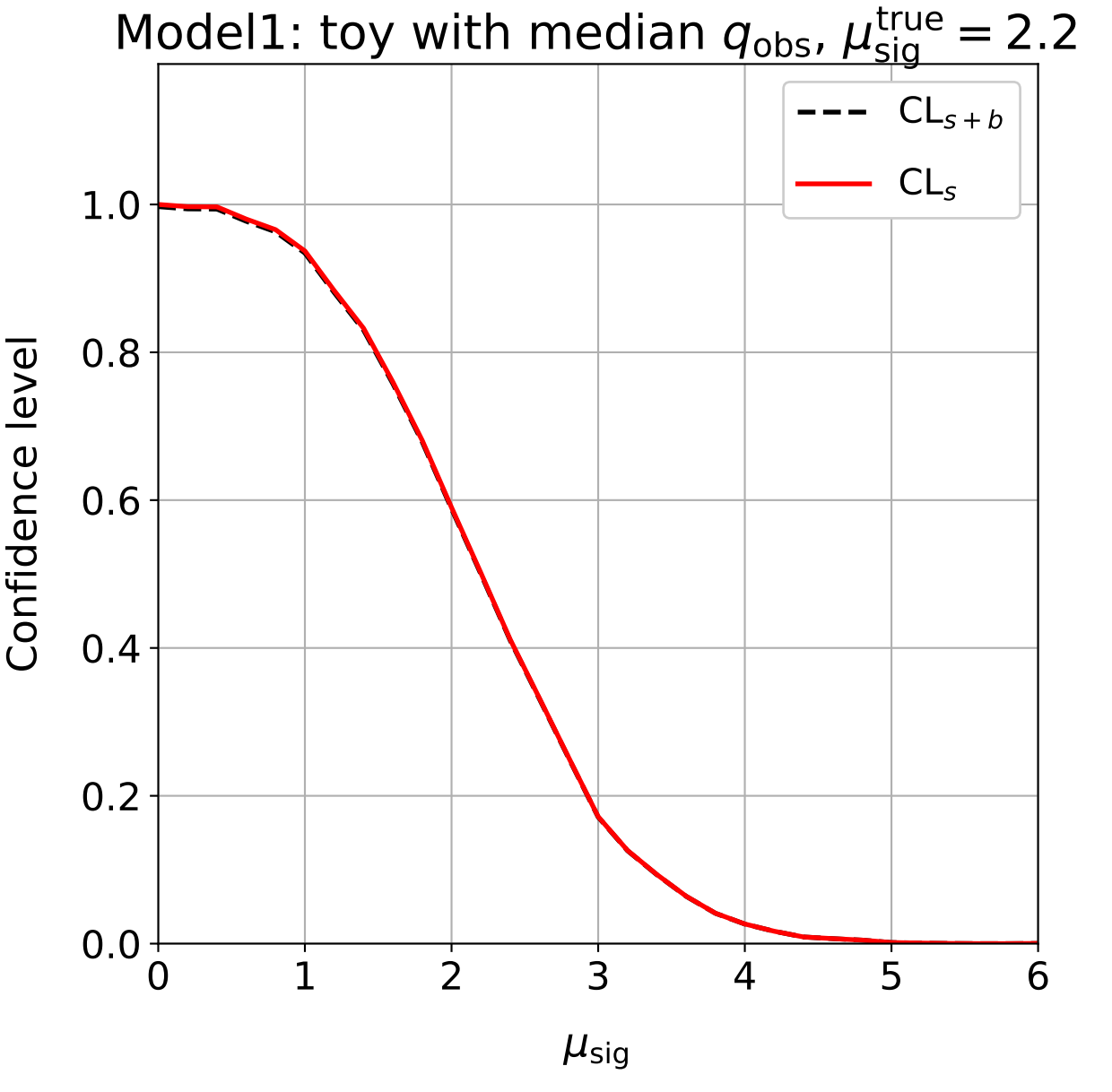

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 1.2$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

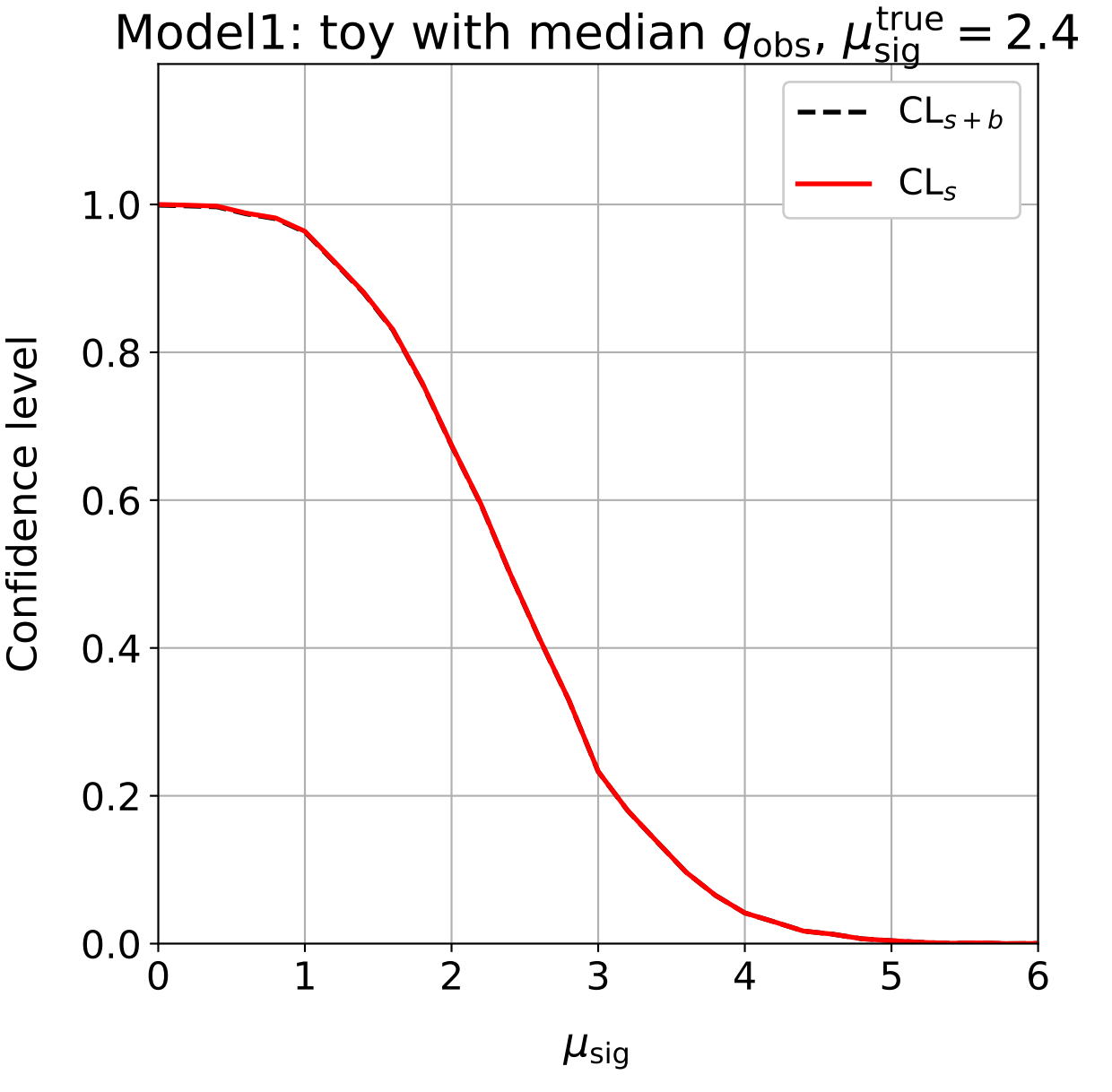

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 1.4$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

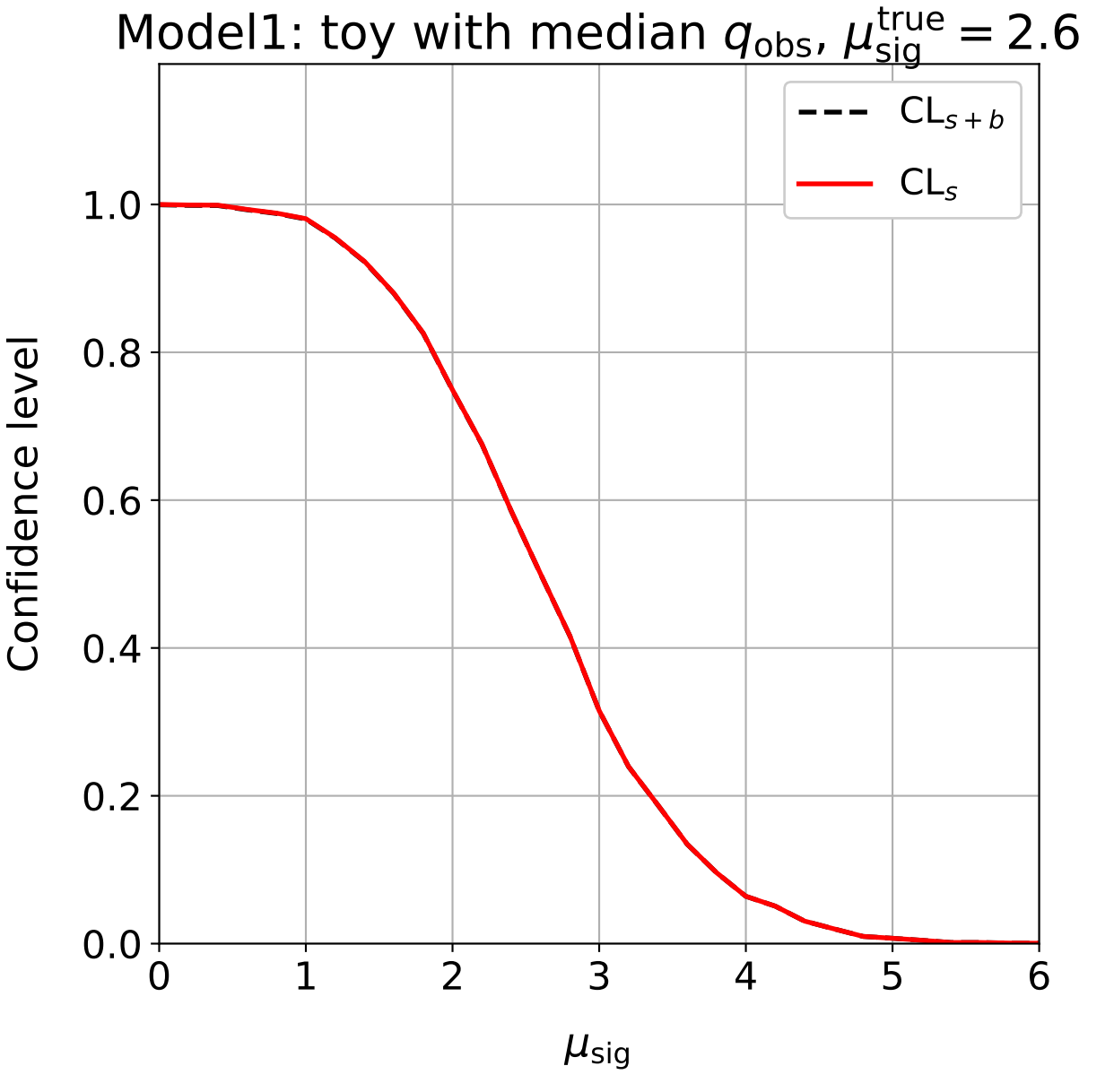

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 1.6$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

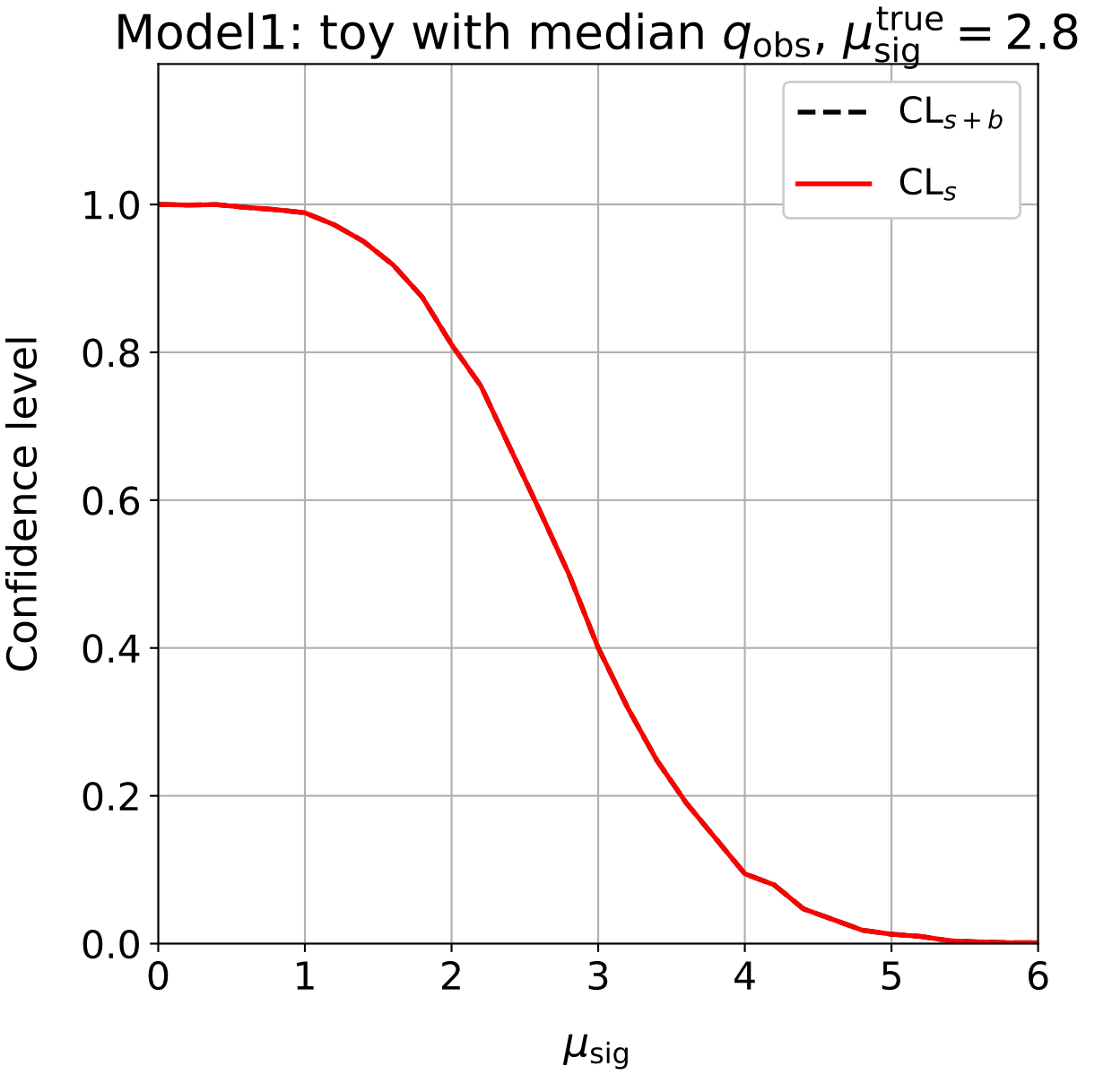

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 1.8$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

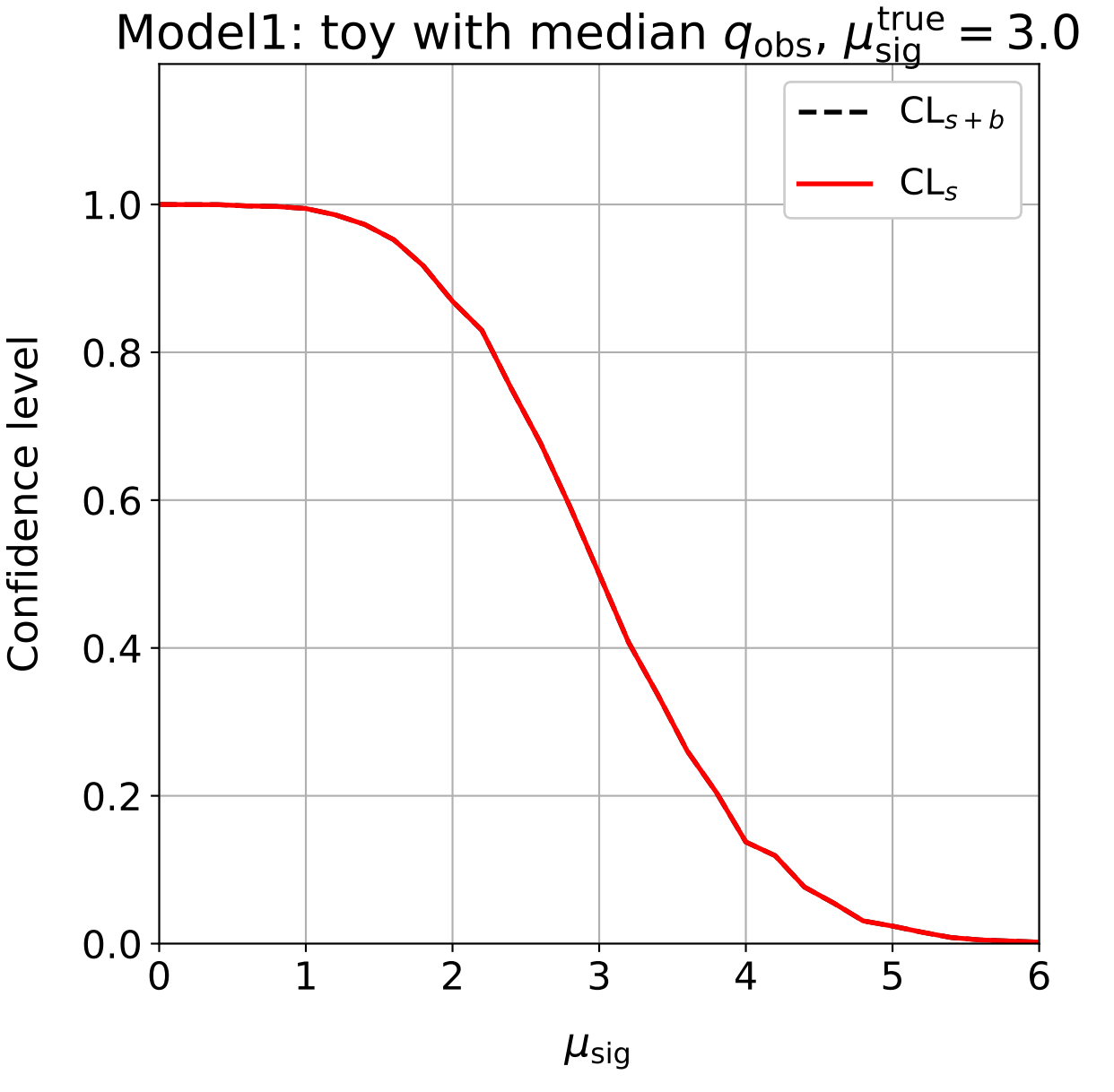

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 2.0$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

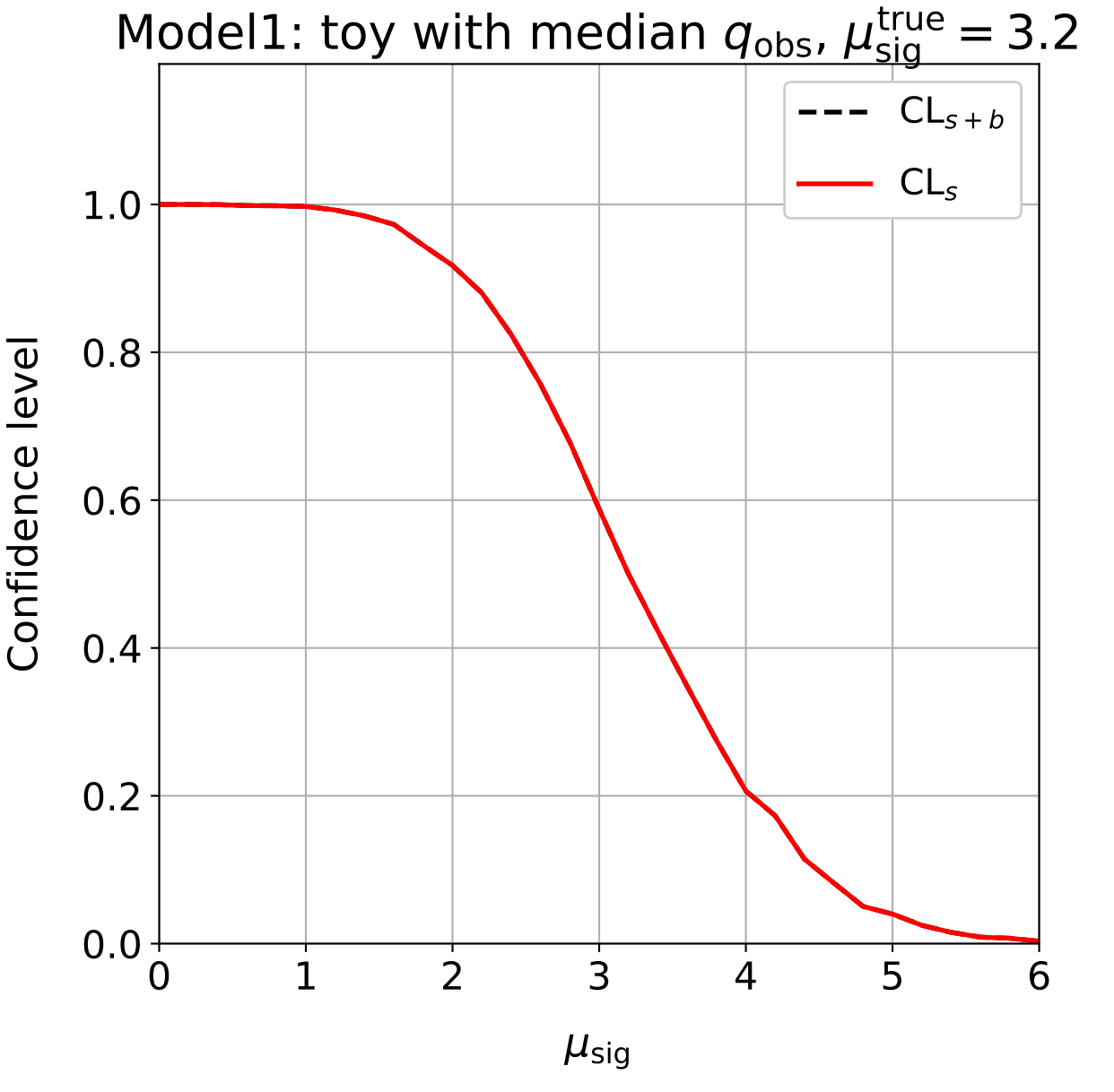

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 2.2$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

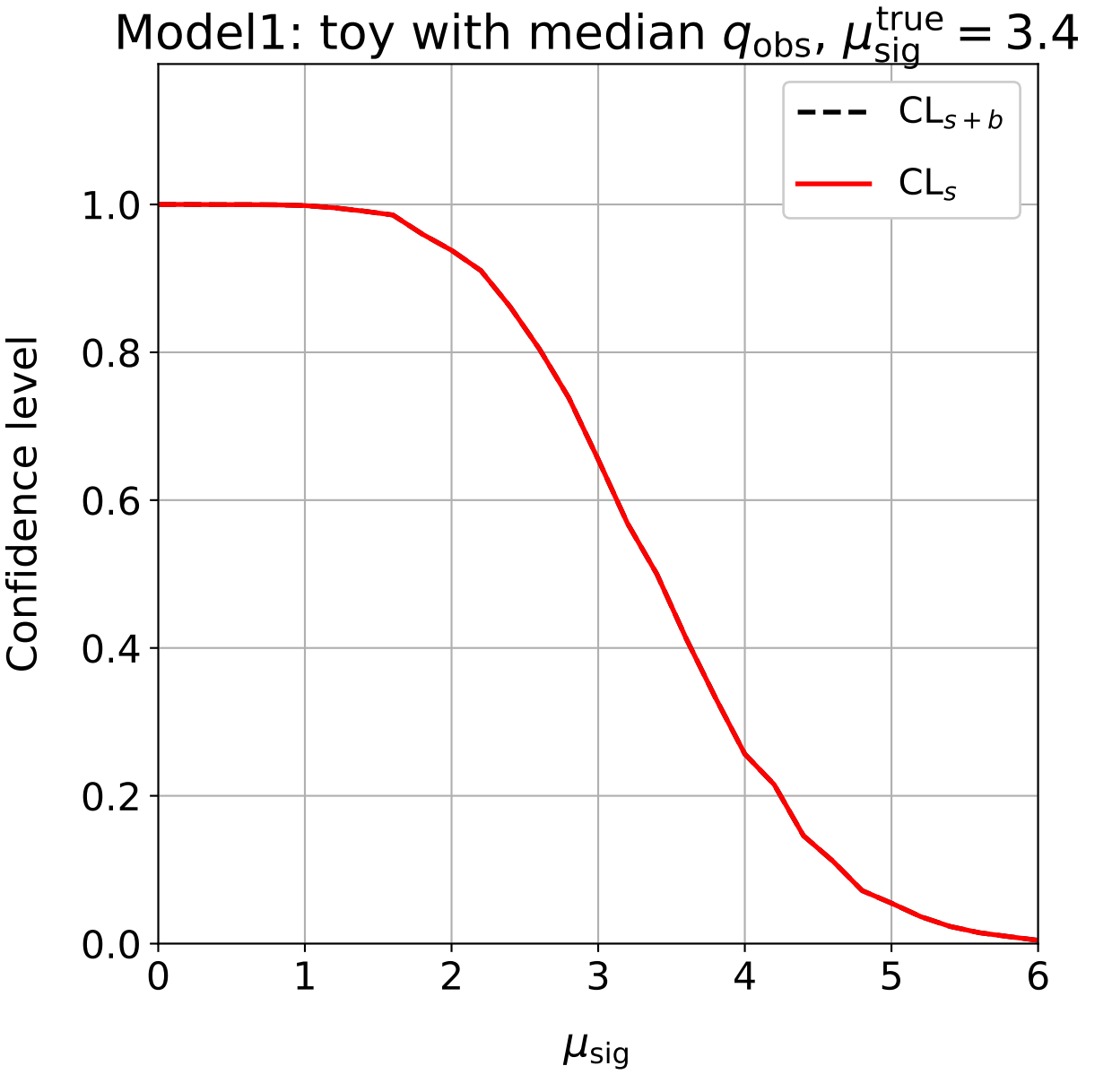

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 2.4$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

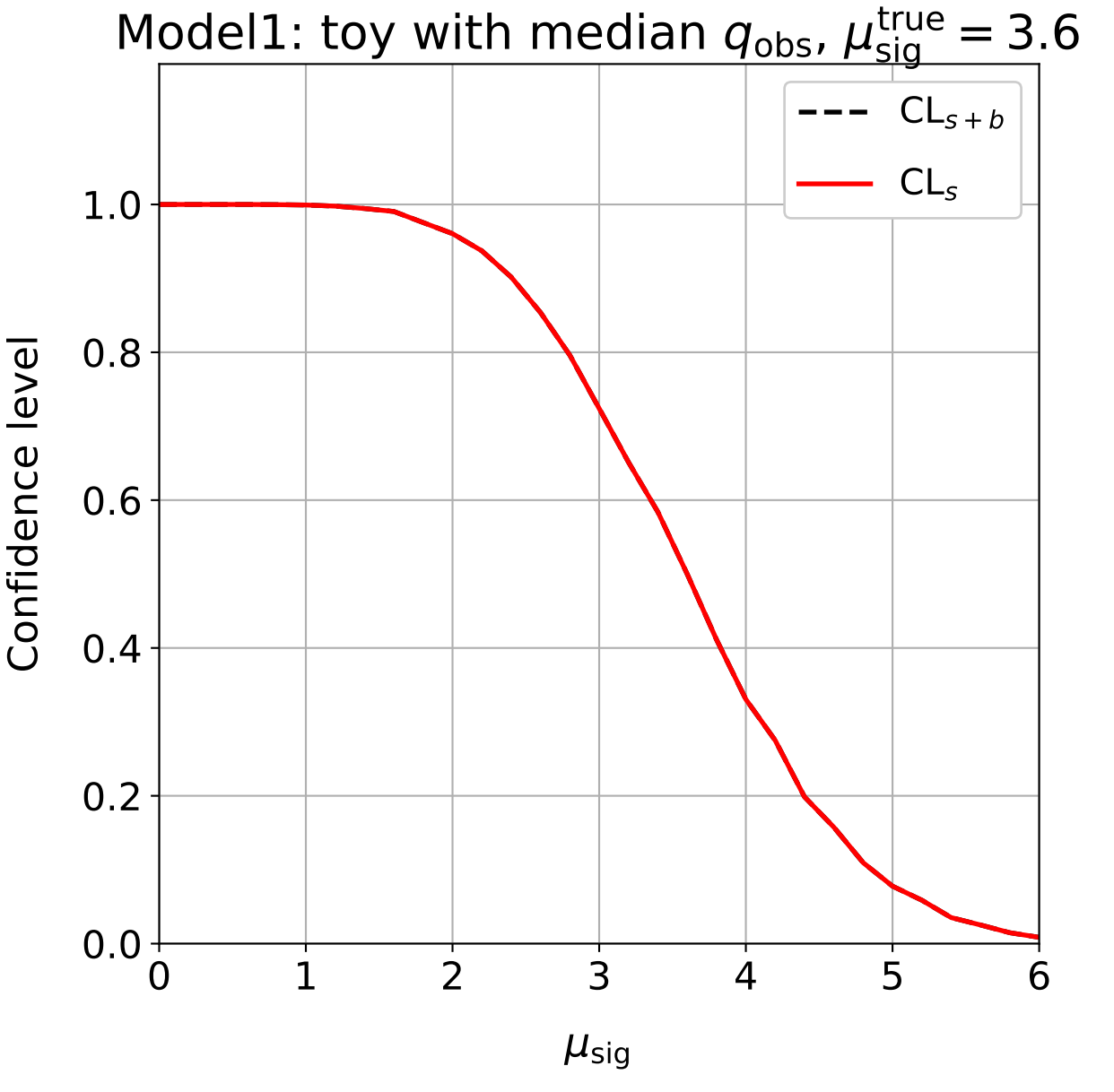

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 2.6$
CL_{s+b}
CL_s
Confidence level
1.0
0.8
0.6
0.4
0.2
0.0
0
1
2
3
4
5
6
μ_{sig}

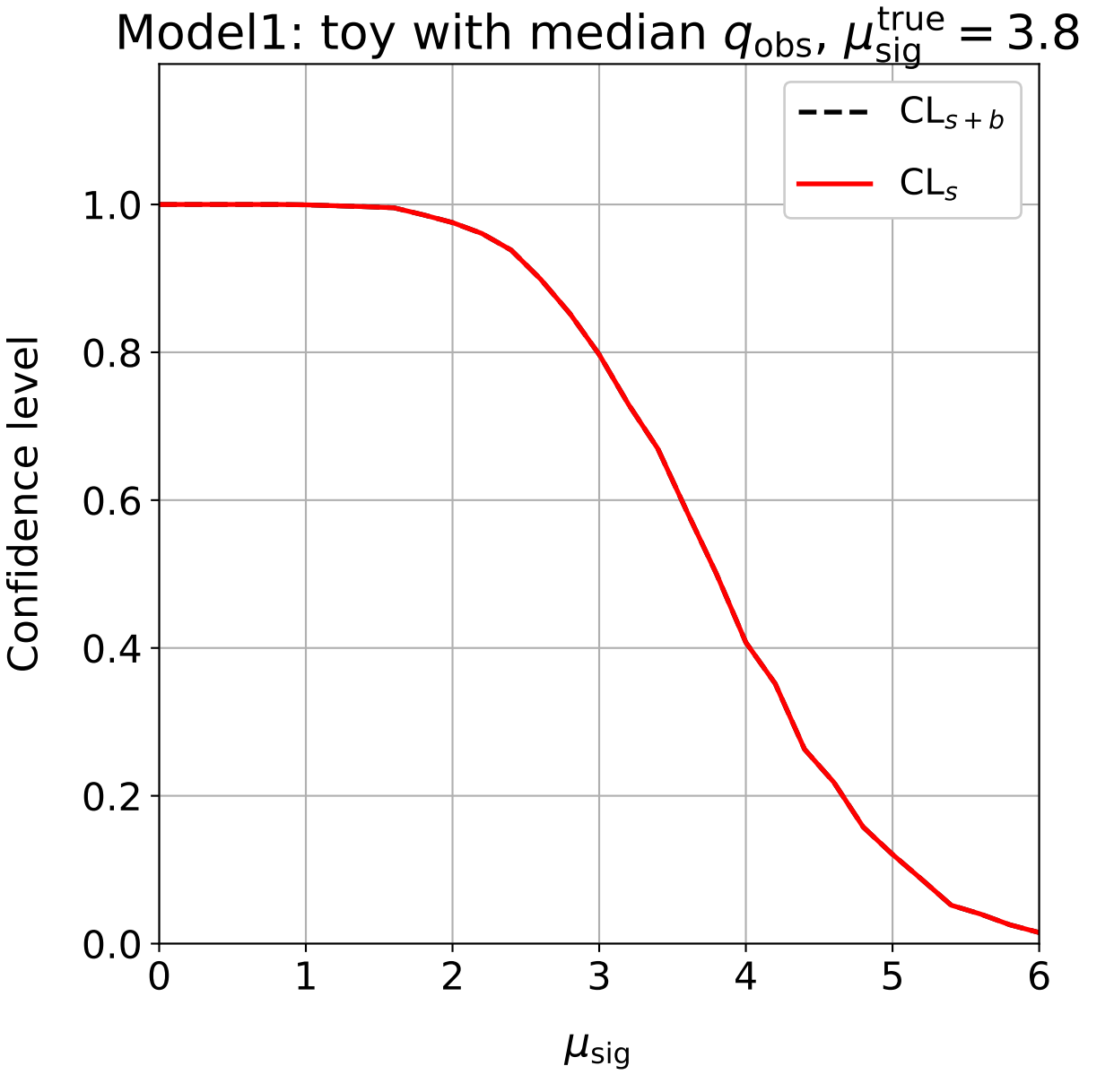

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 2.8$
CL_{s+b}
CL_s
Confidence level
1.0
0.8
0.6
0.4
0.2
0.0
0
1
2
3
4
5
6
μ_{sig}

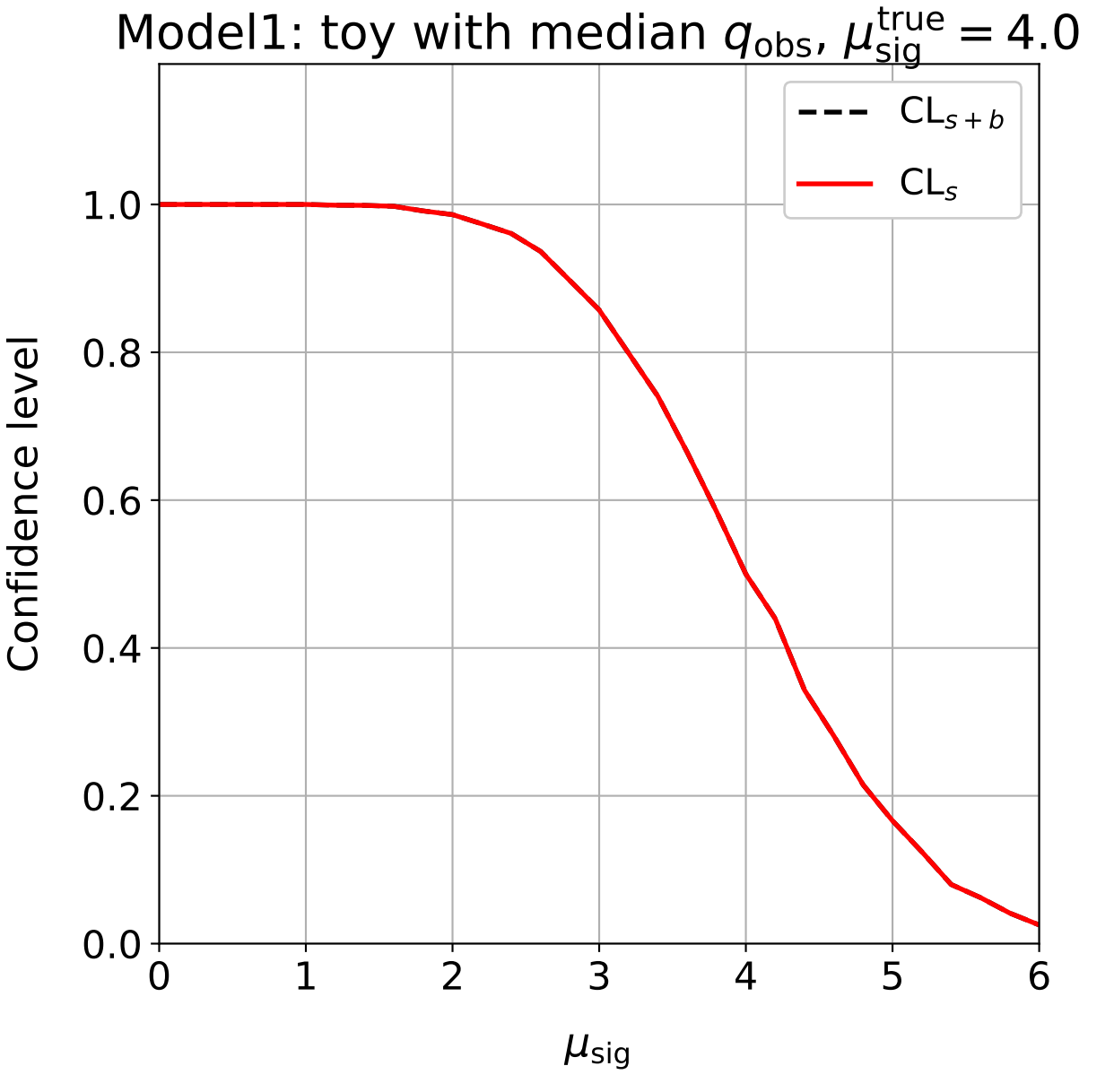

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 3.0$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

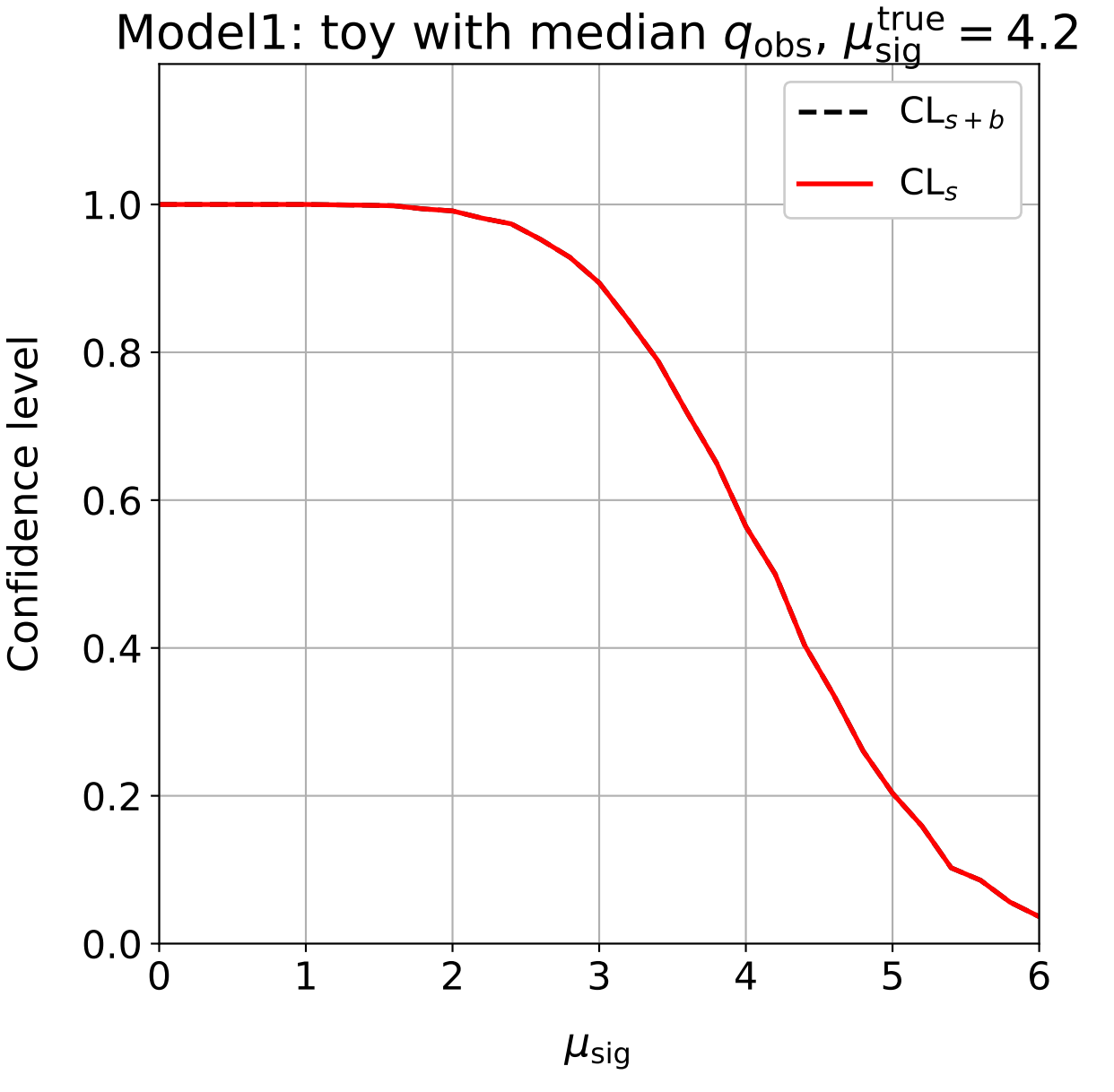

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 3.2$
CL_{s+b}
CL_s
Confidence level
1.0
0.8
0.6
0.4
0.2
0.0
0
1
2
3
4
5
6
μ_{sig}

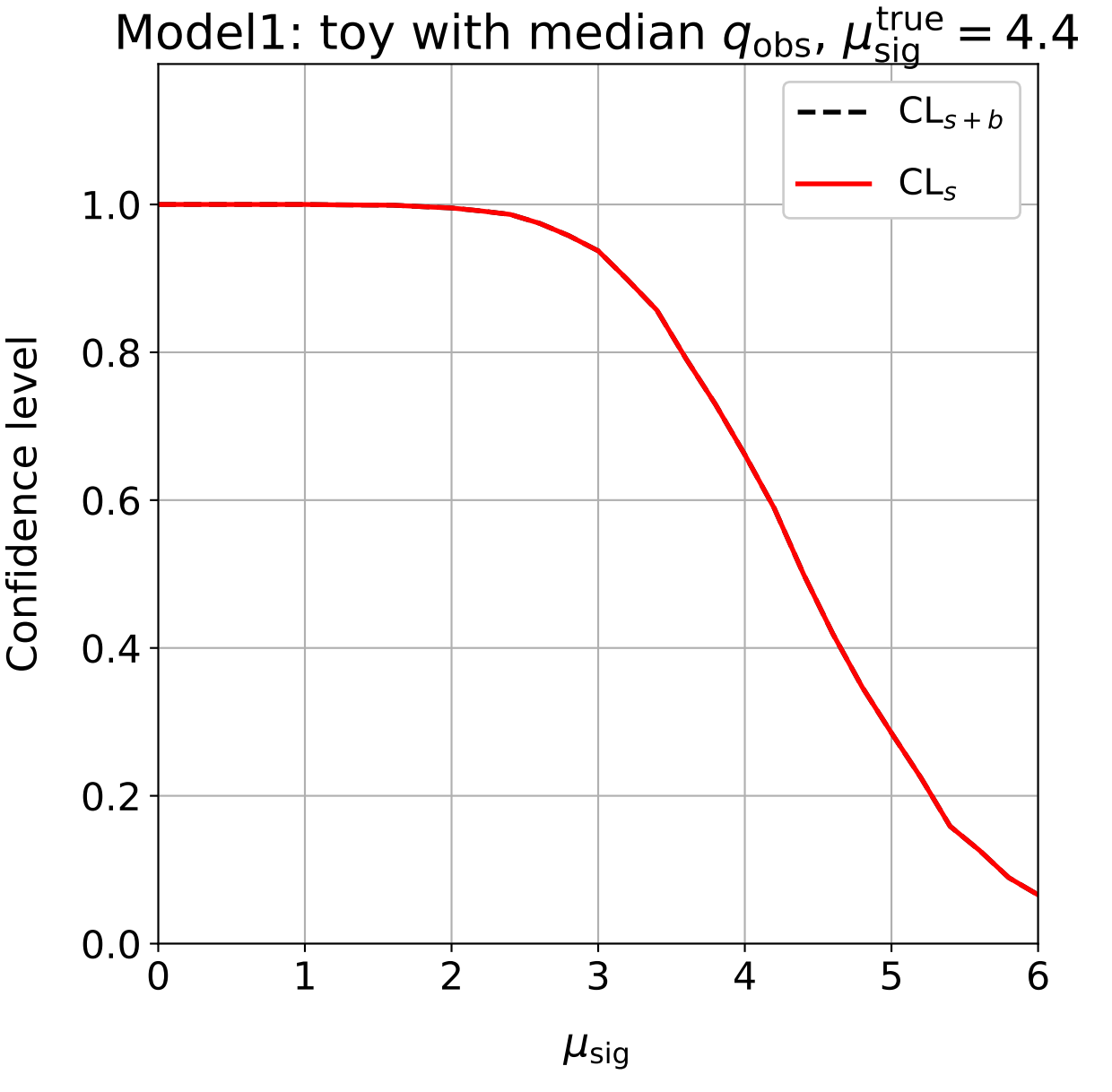

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 3.4$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

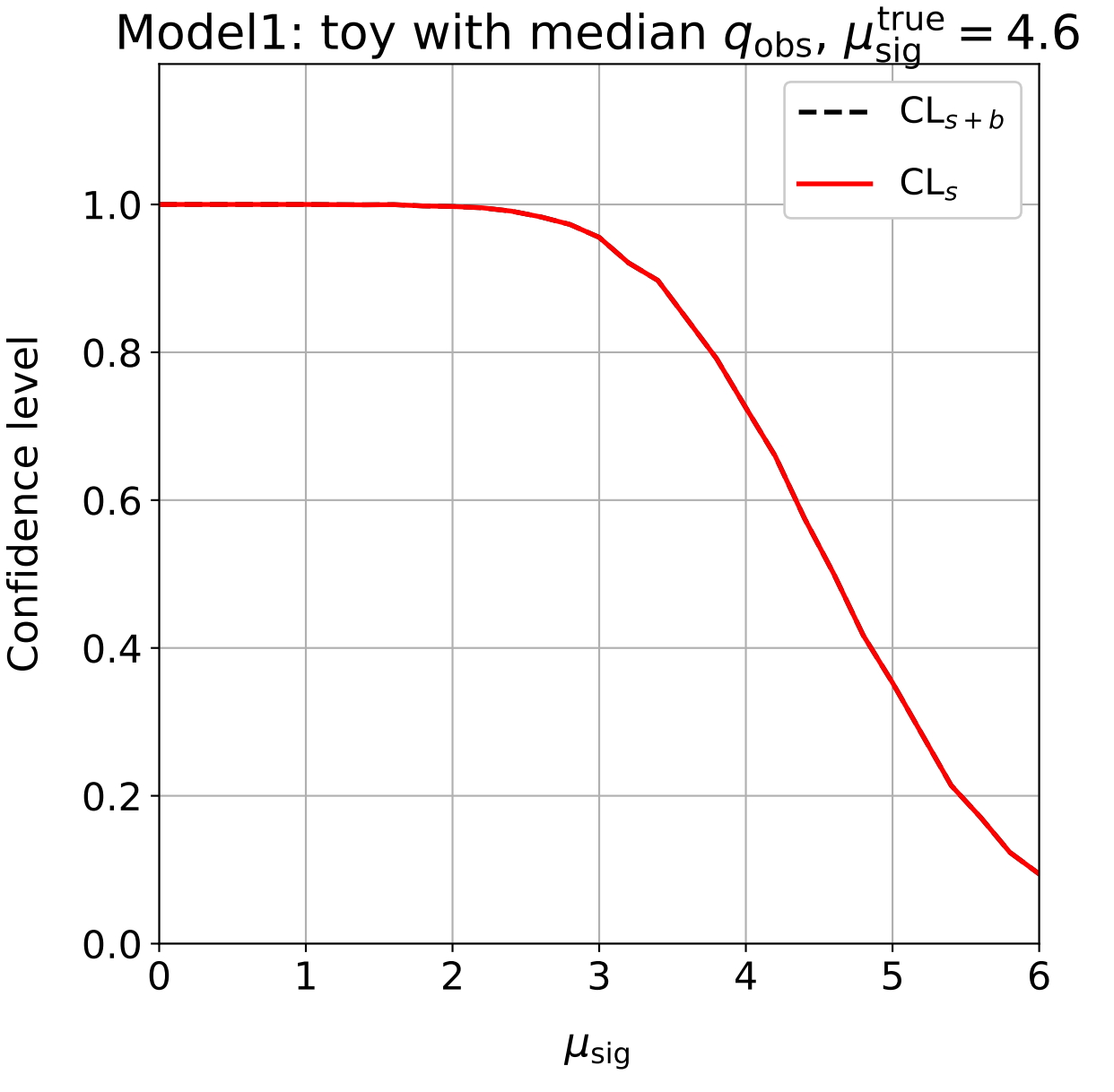

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 3.6$
CL_{s+b}
CL_s
Confidence level
1.0
0.8
0.6
0.4
0.2
0.0
0
1
2
3
4
5
6
μ_{sig}

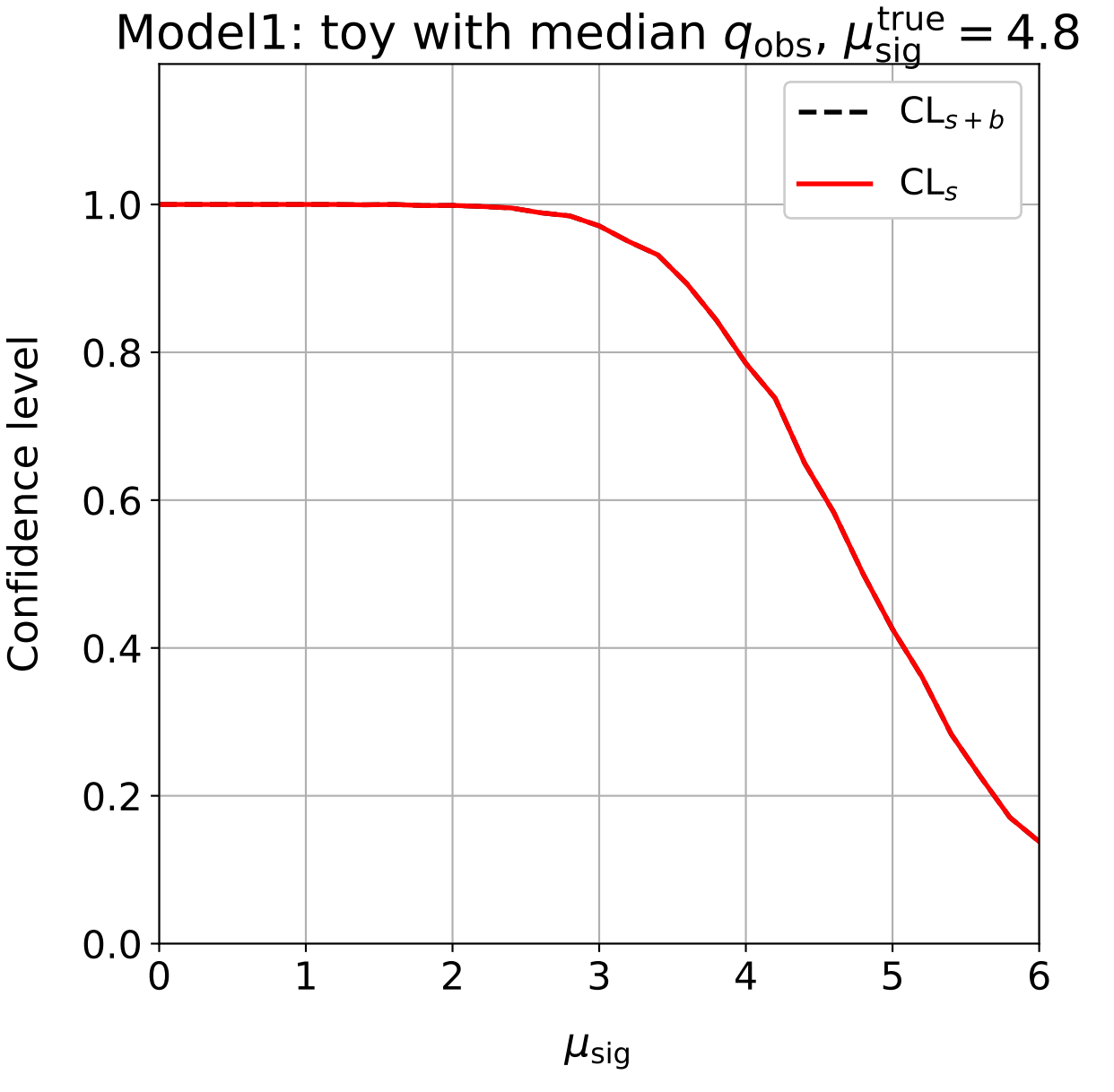

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 3.8$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

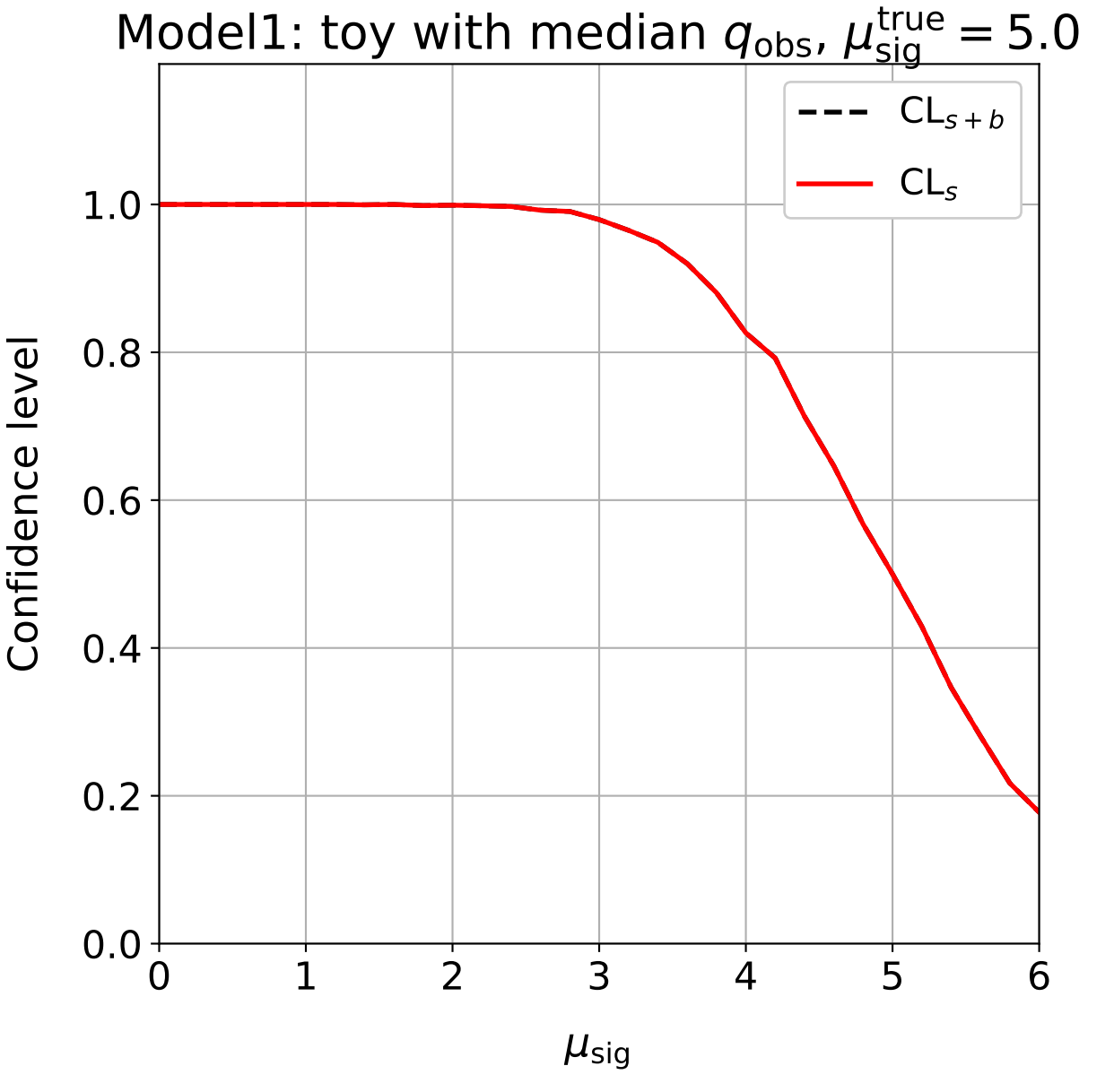

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 4.0$
CL_{s+b}
CL_s
Confidence level
1.0
0.8
0.6
0.4
0.2
0.0
0
1
2
3
4
5
6
μ_{sig}

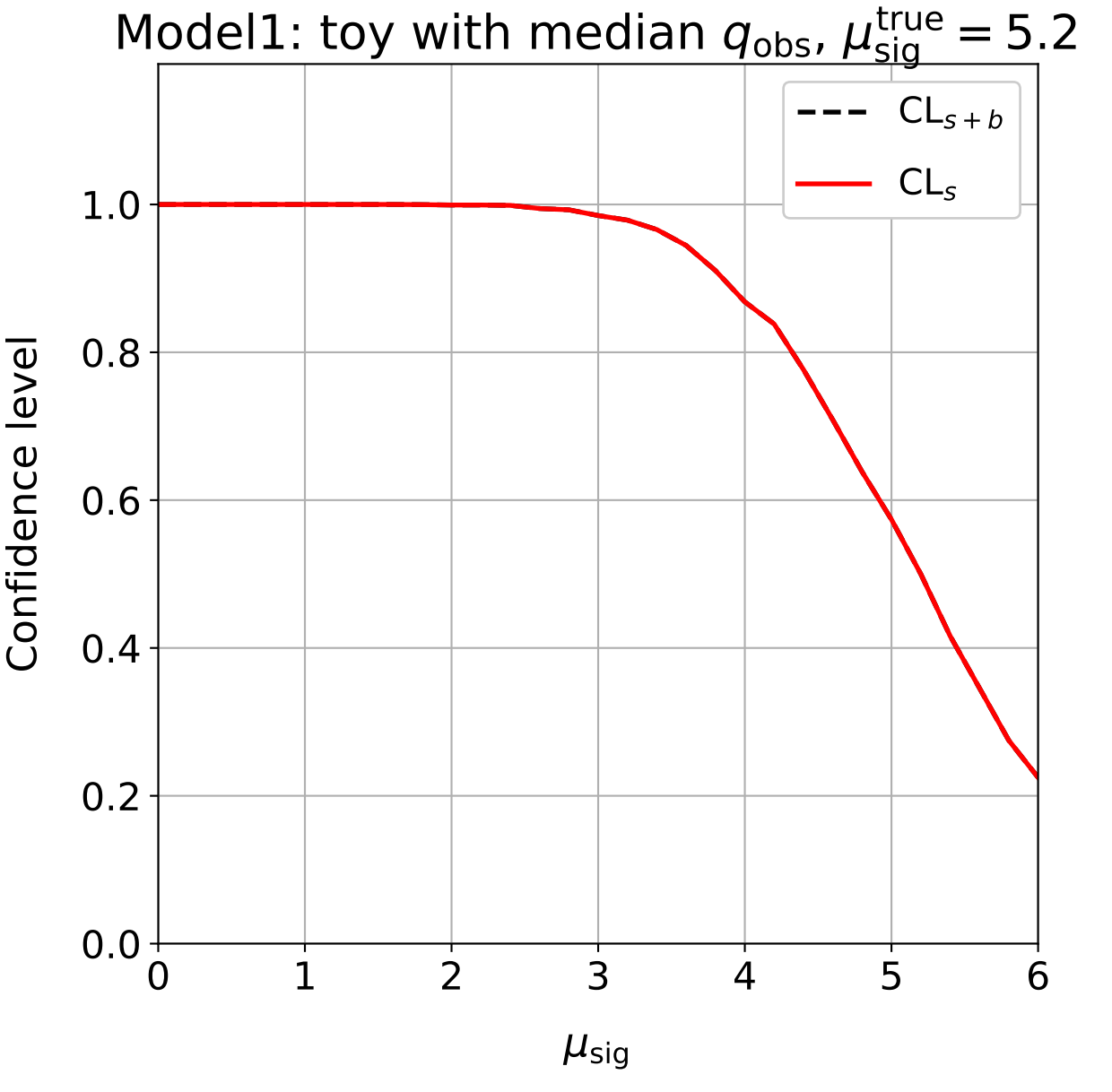

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 4.2$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

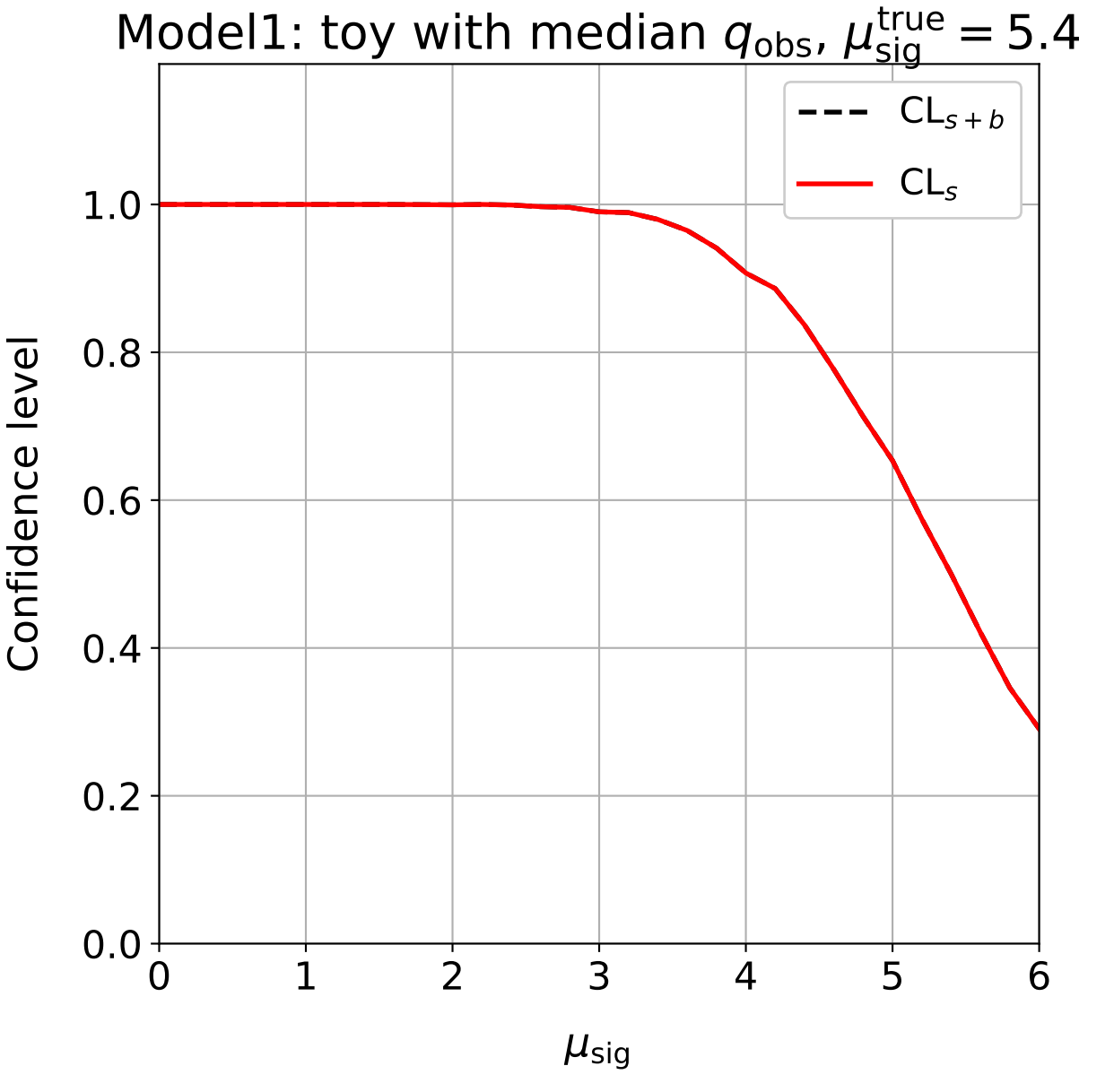

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 4.4$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

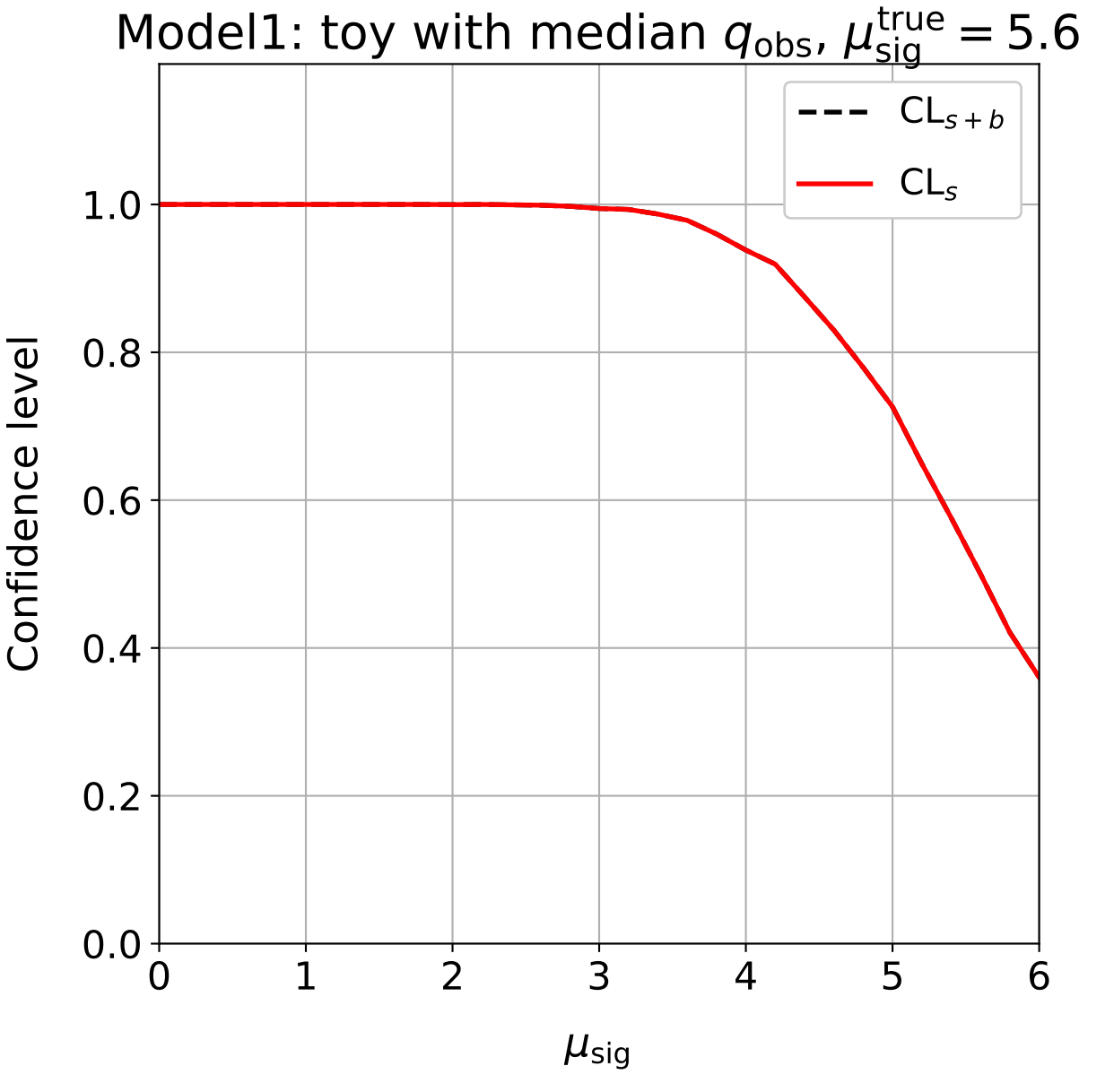

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 4.6$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

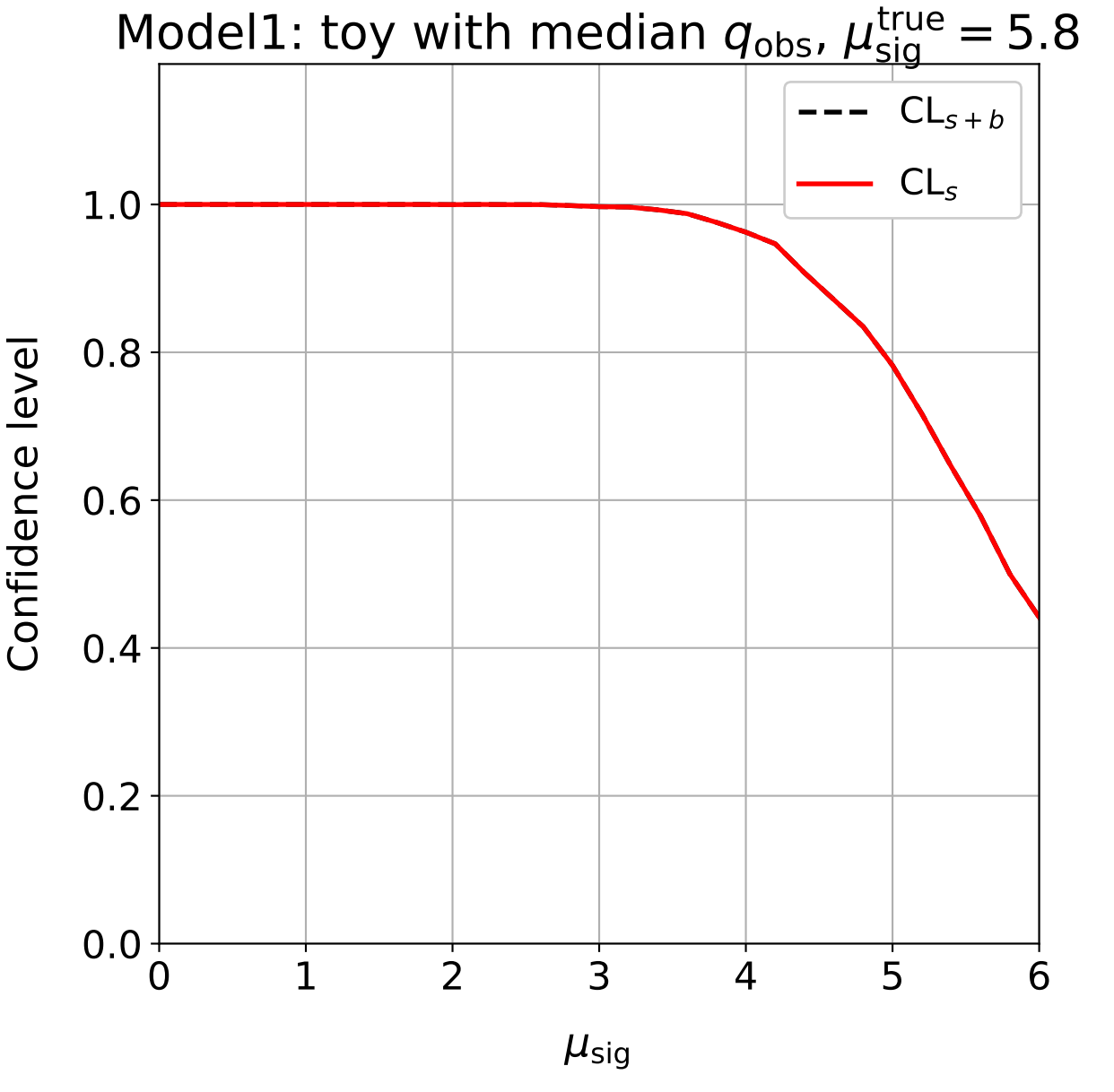

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 4.8$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

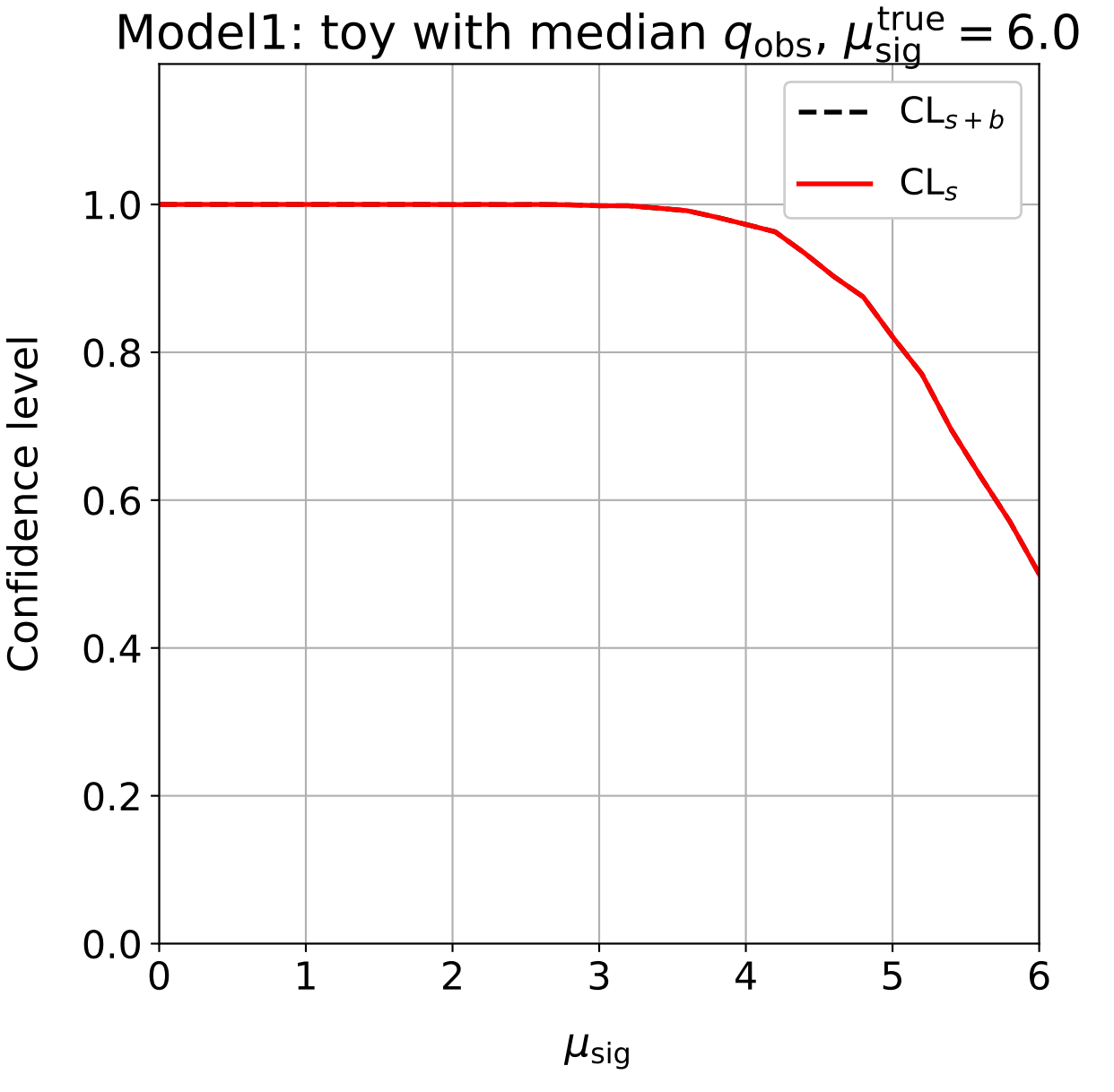

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 5.0$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

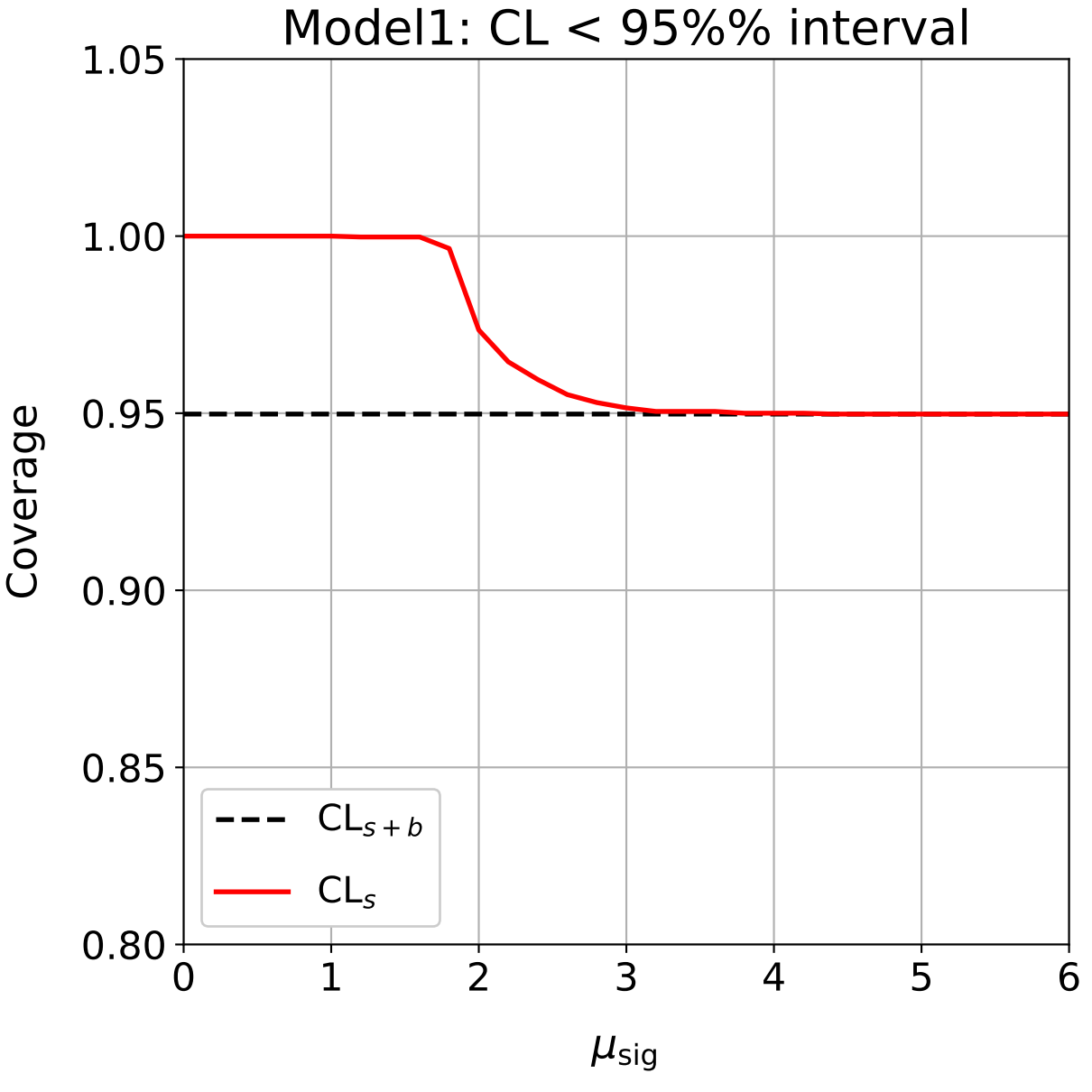

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 5.2$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

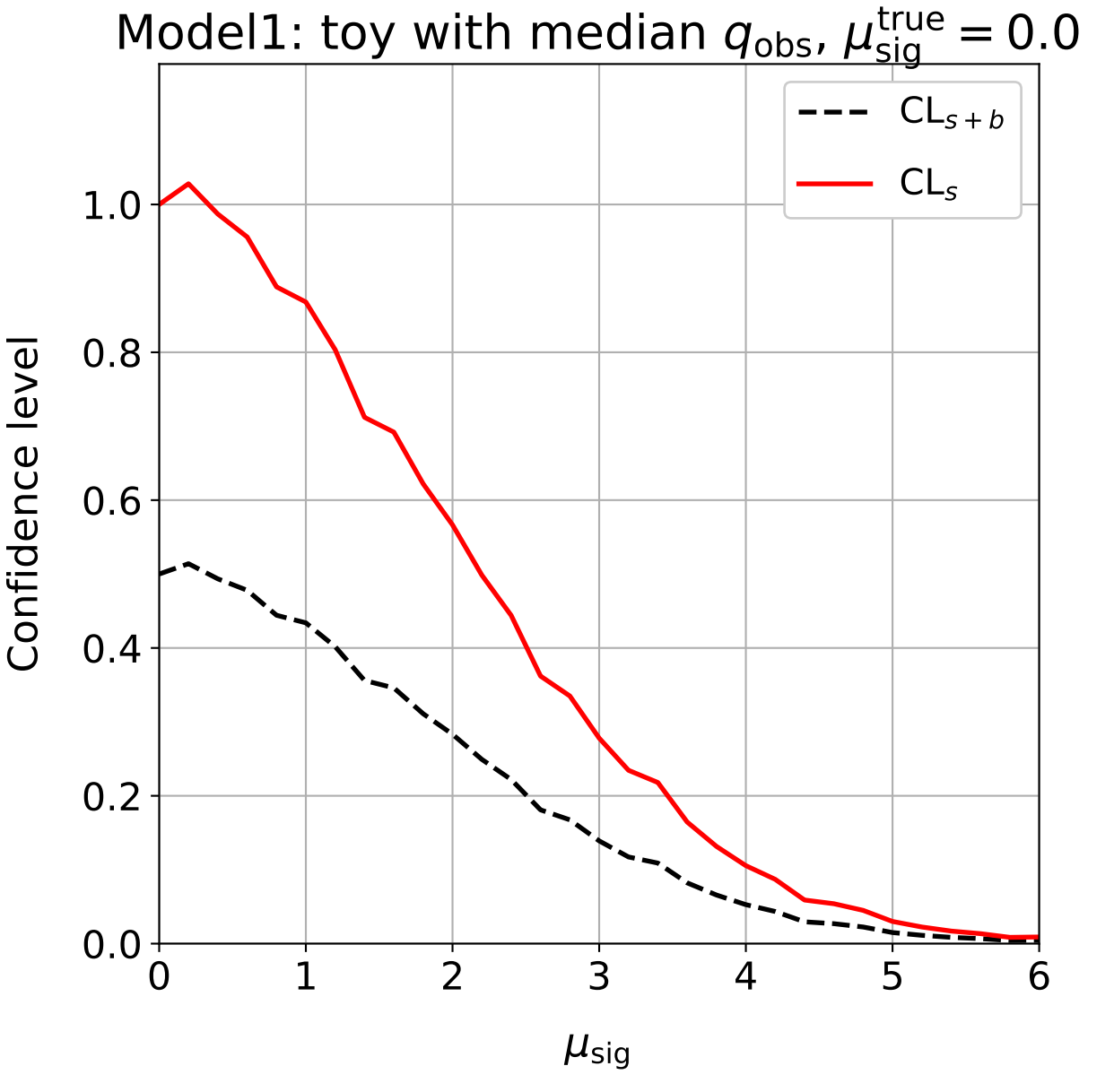

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 5.4$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

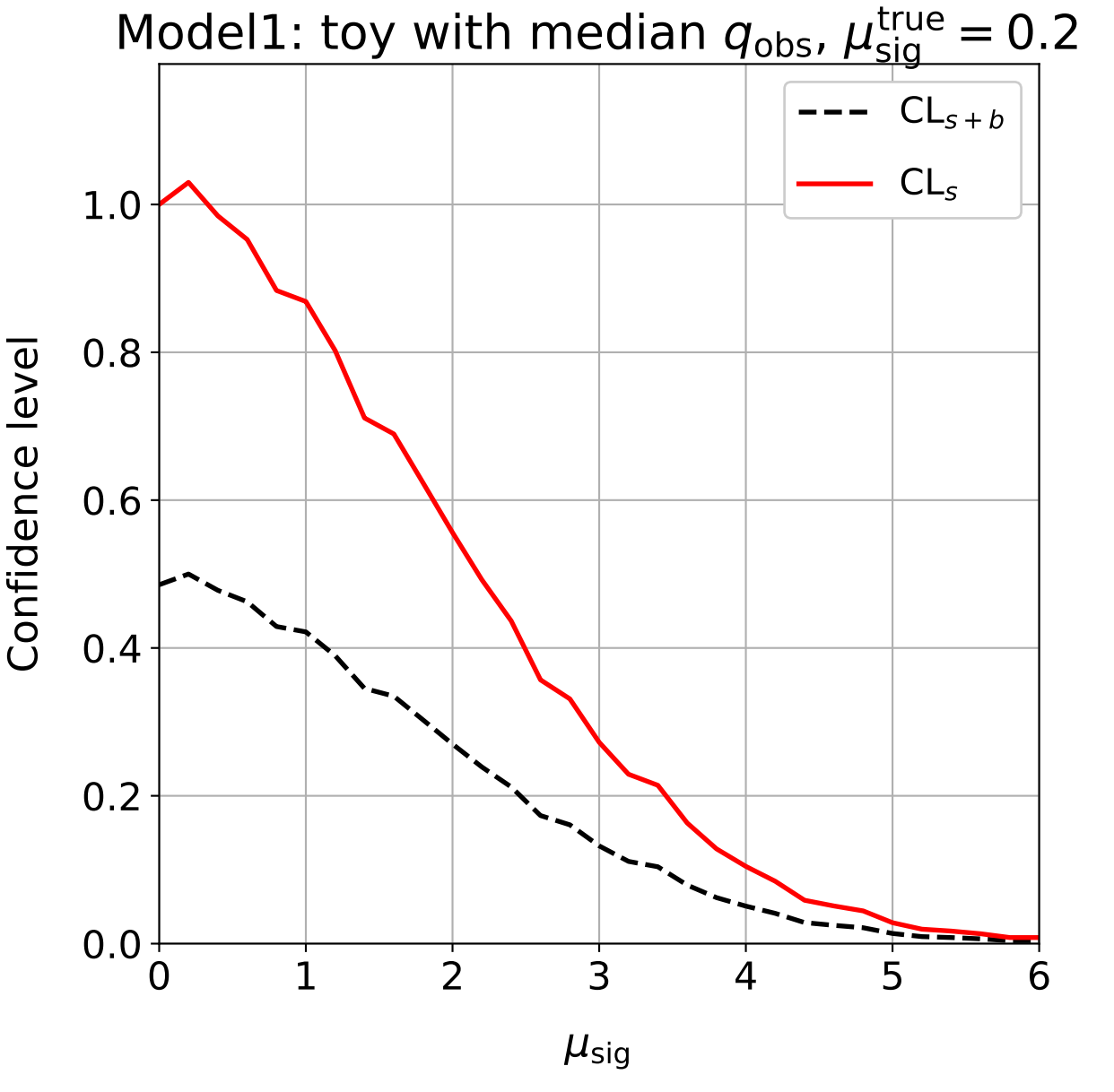

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 5.6$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

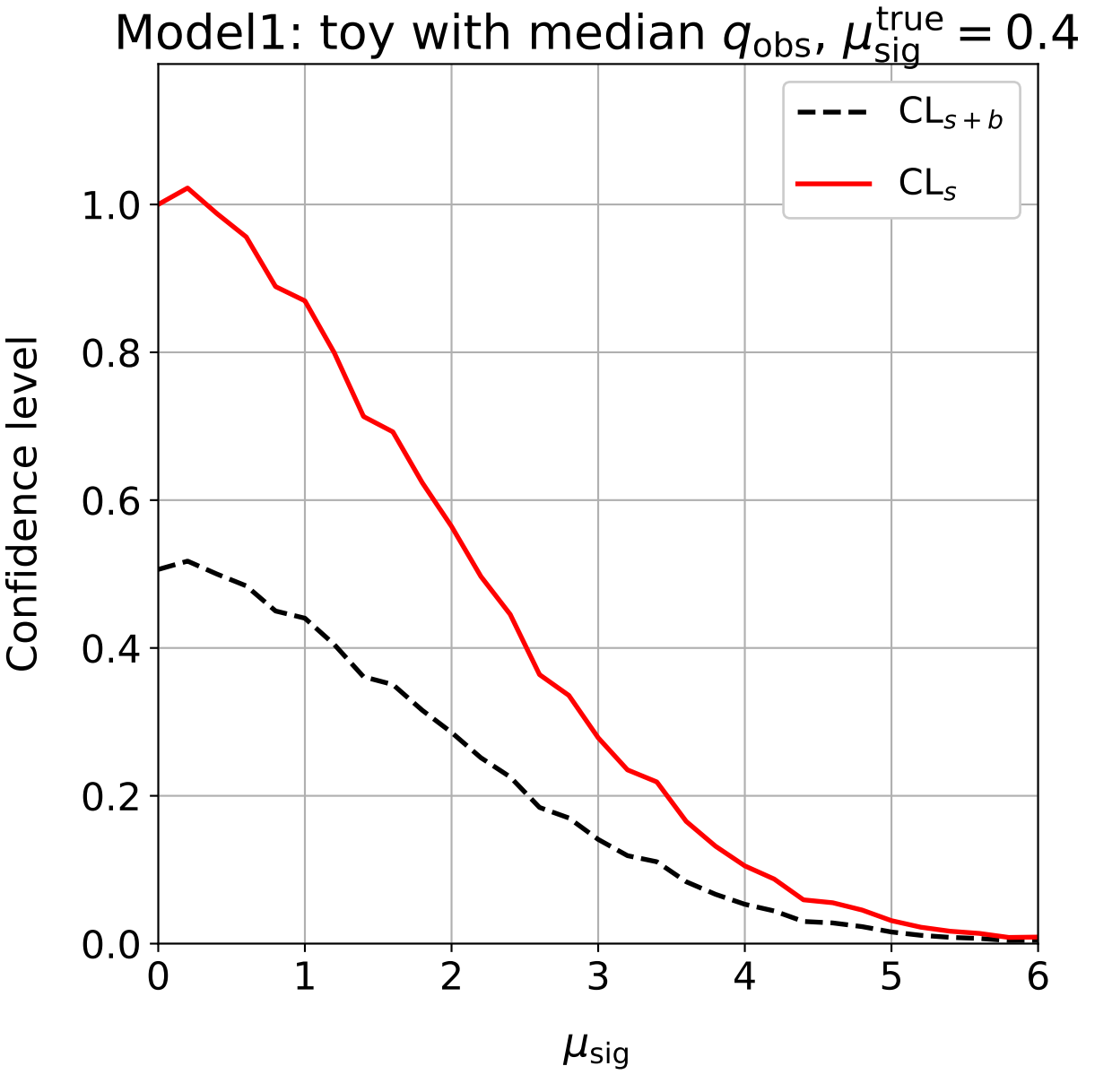

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 5.8$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

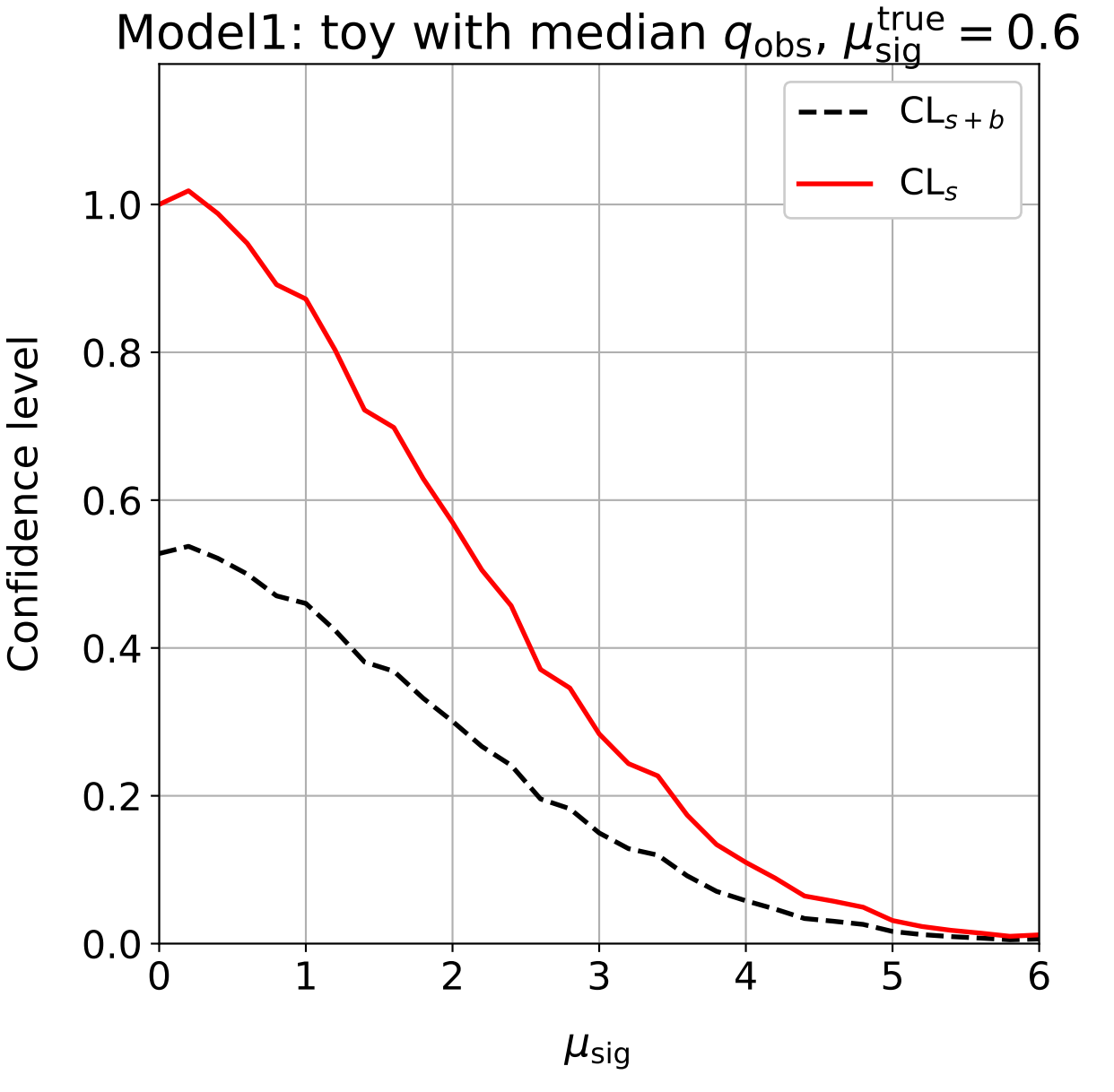

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 6.0$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

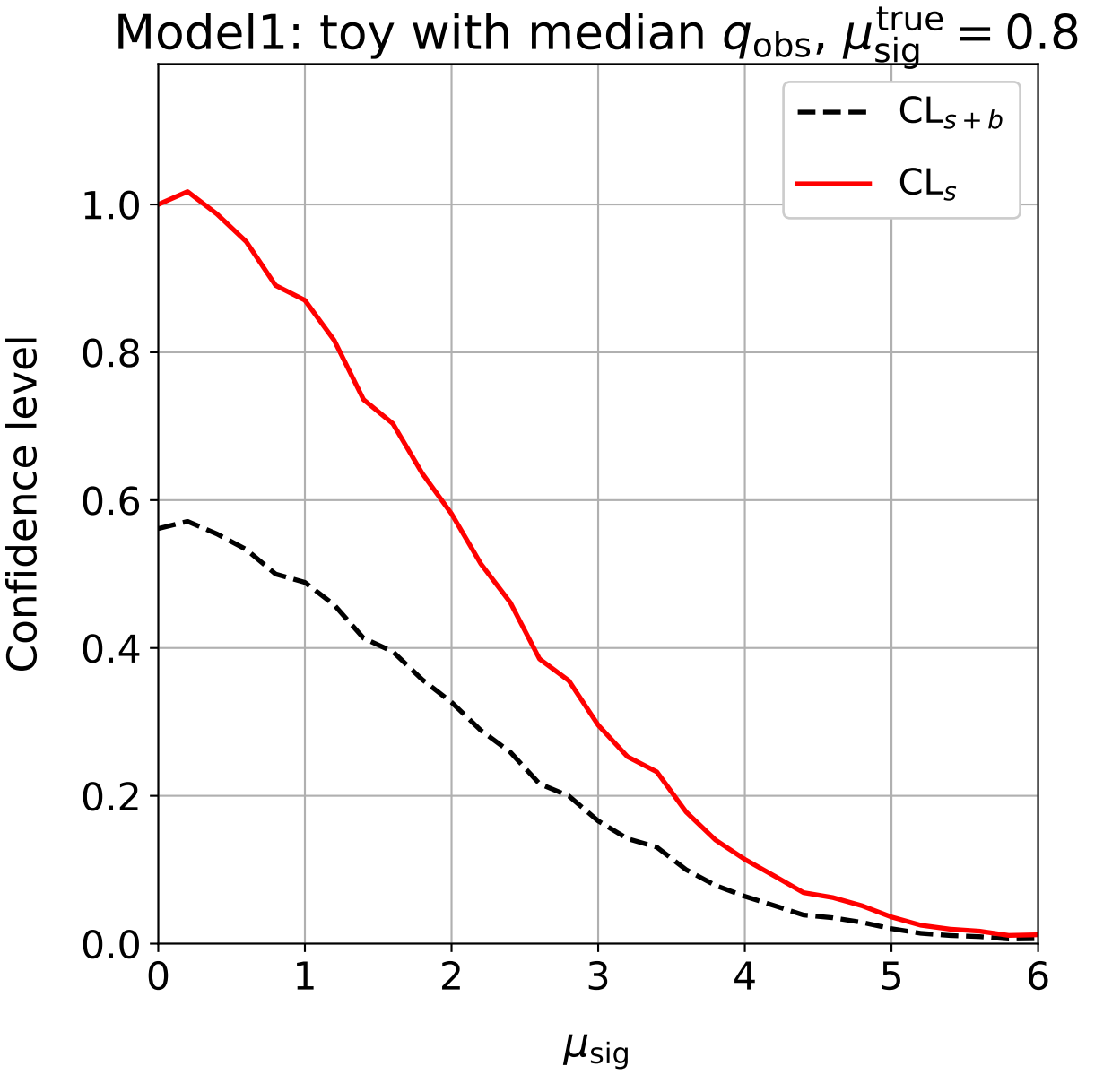

Model1: CL < 95%% interval
1.05
1.00
0.95
0.90
0.85
0.80
Coverage
0
1
2
3
4
5
6
μ_{sig}
CL_{s+b}
CL_{s}

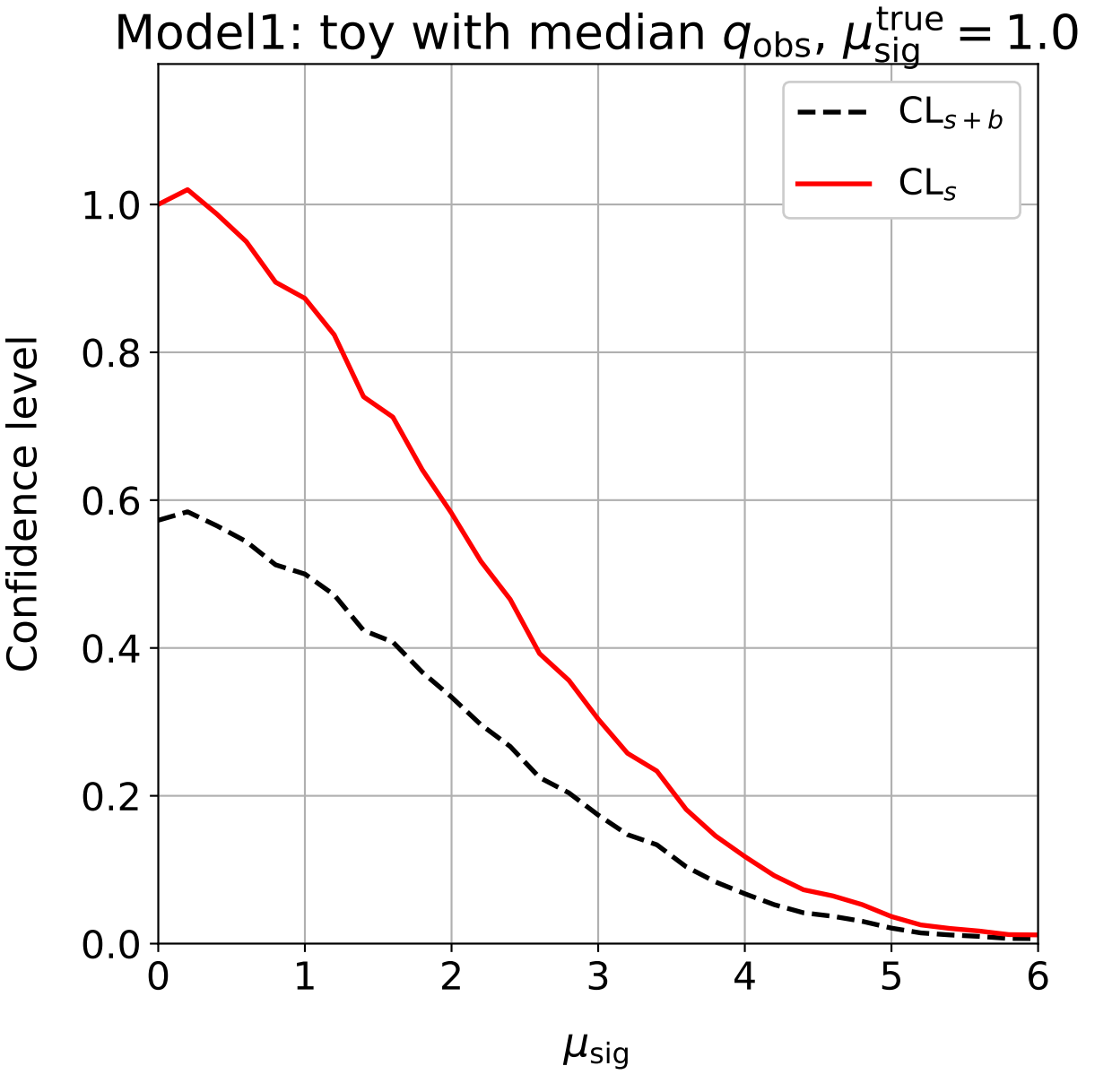

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 0.0$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

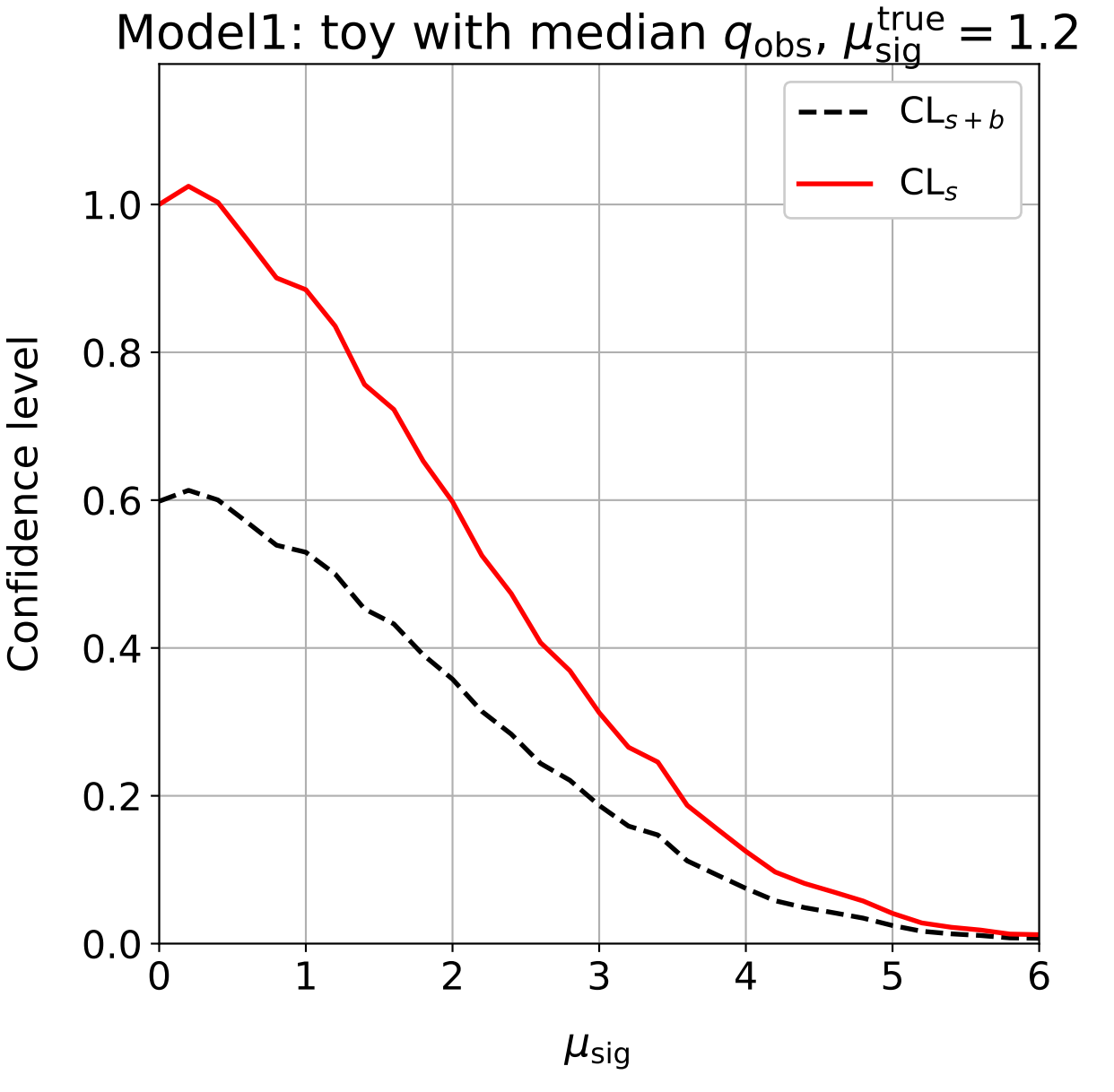

Model1: toy with median q_{obs}, $\mu_{\mathrm{sig}}^{\mathrm{true}} = 0.2$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

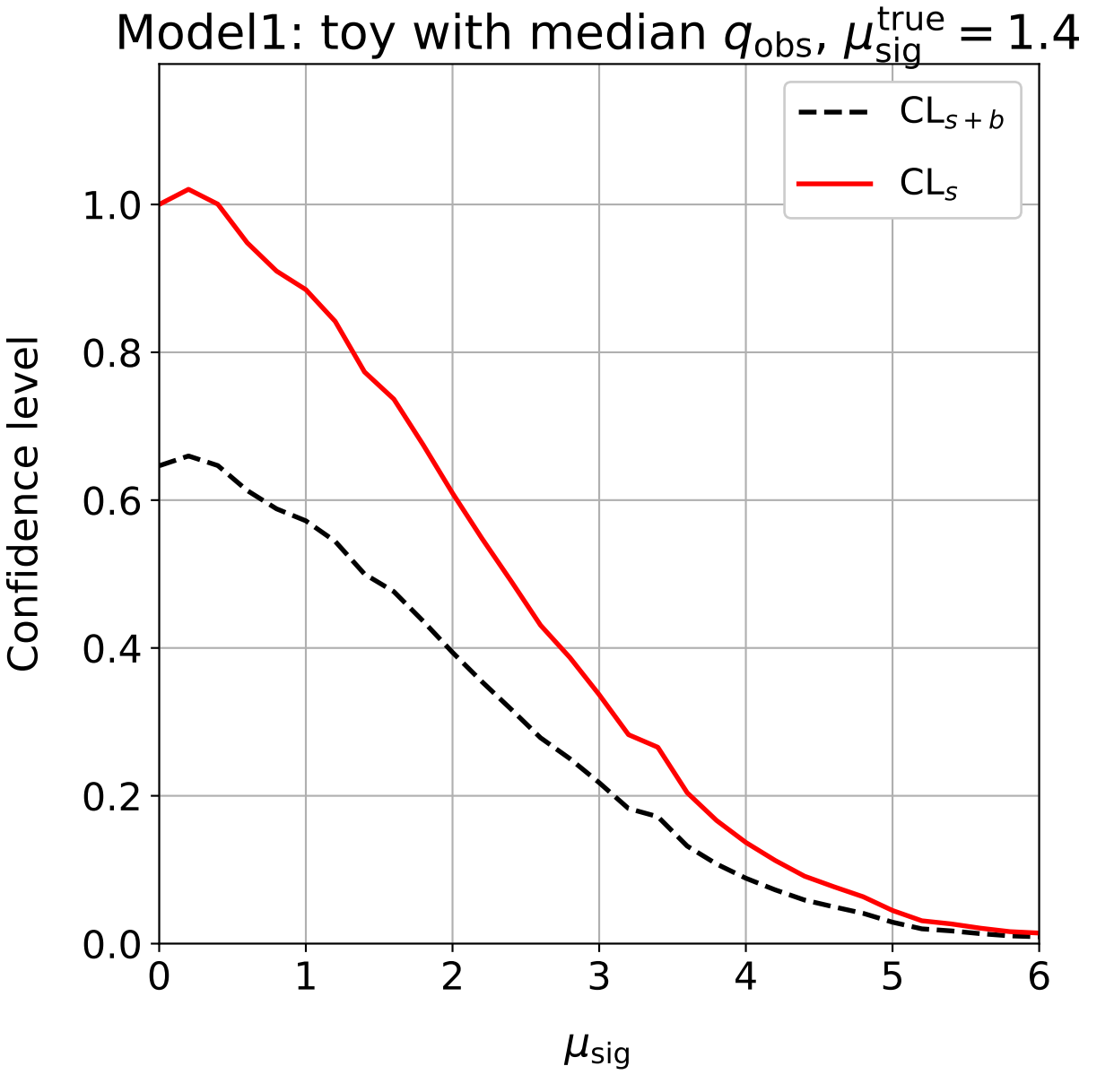

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 0.4$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

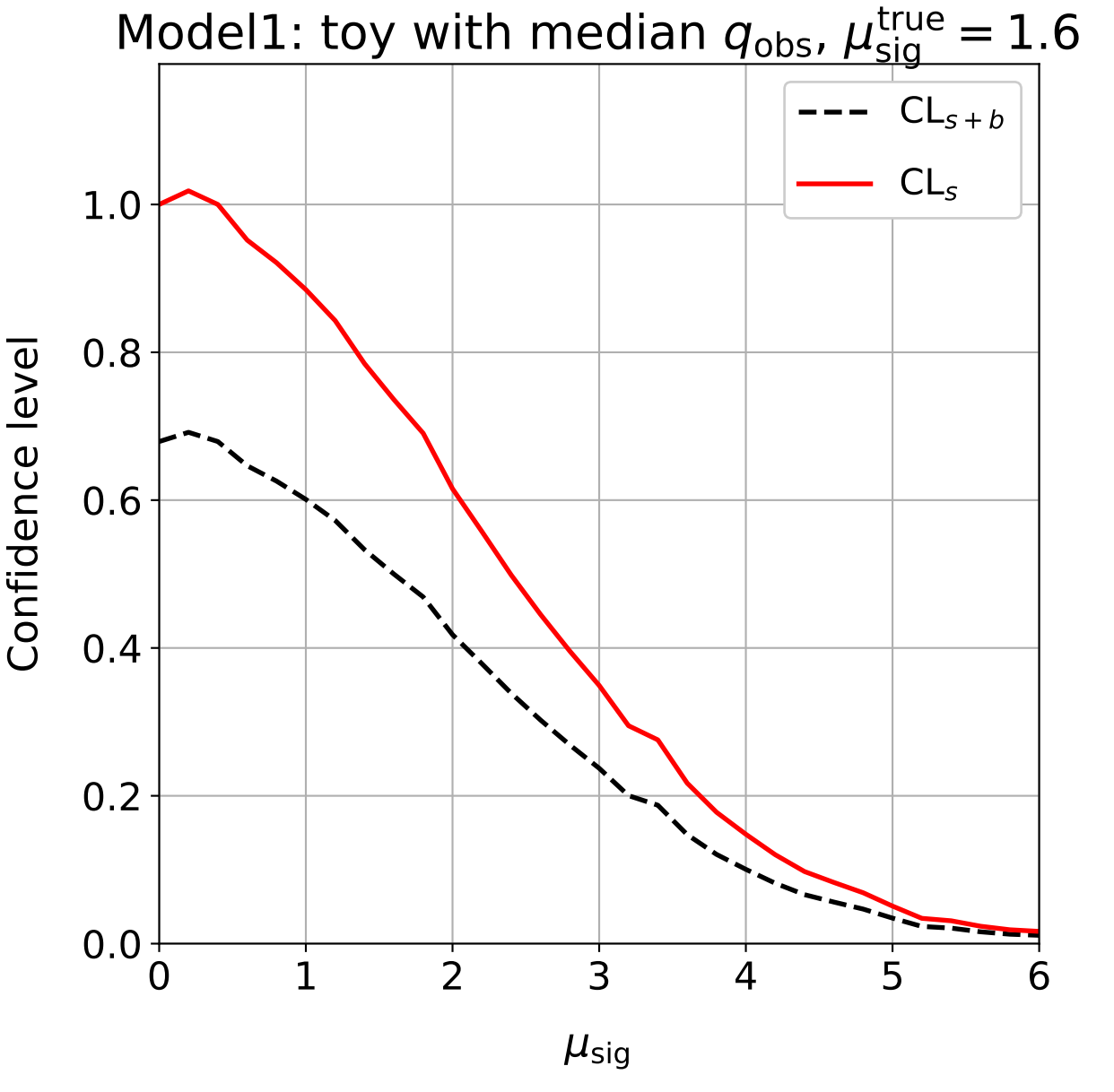

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 0.6$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

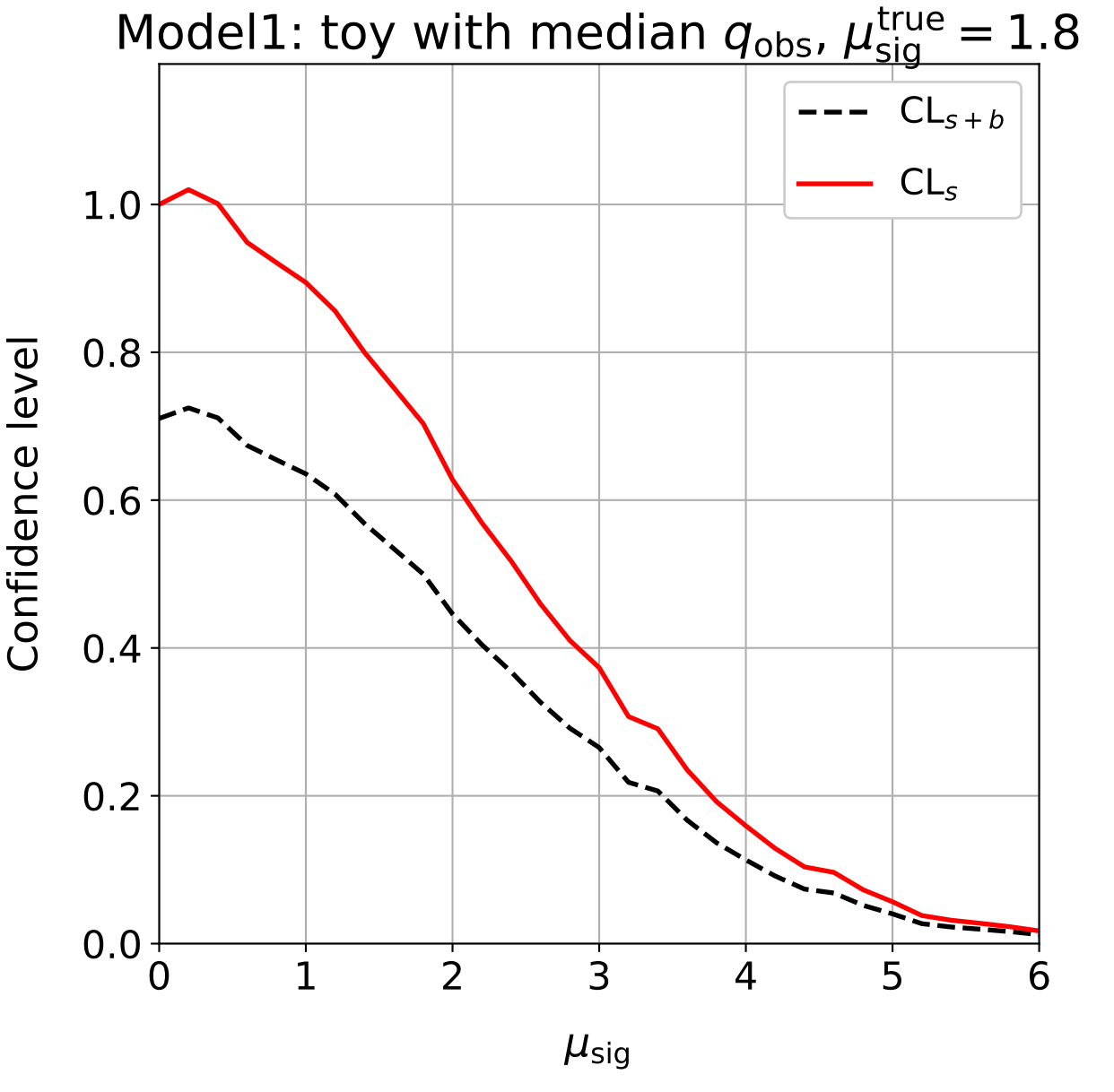

Model1: toy with median q_{obs}, $\mu_{\mathrm{sig}}^{\mathrm{true}} = 0.8$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

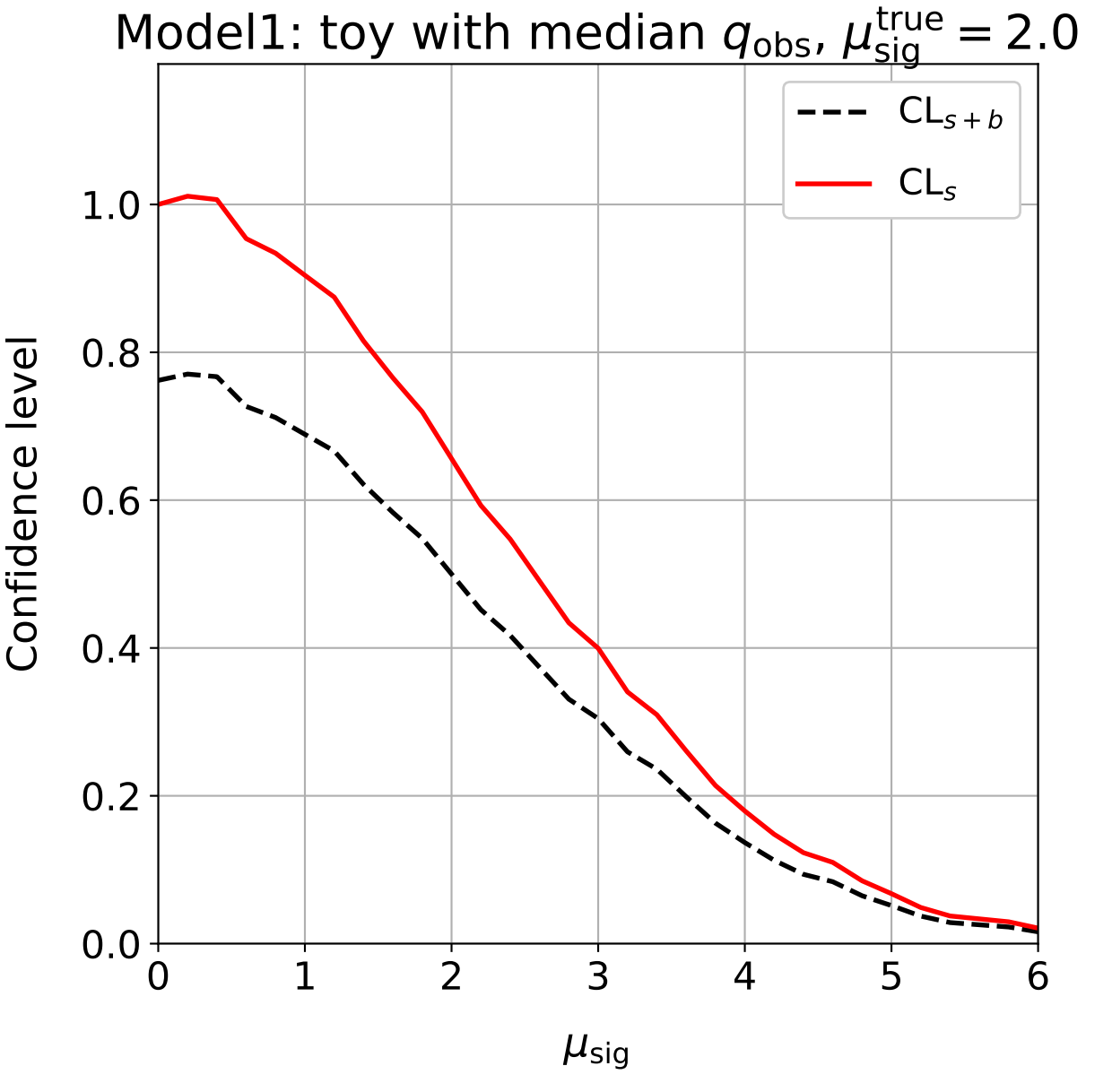

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 1.0$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

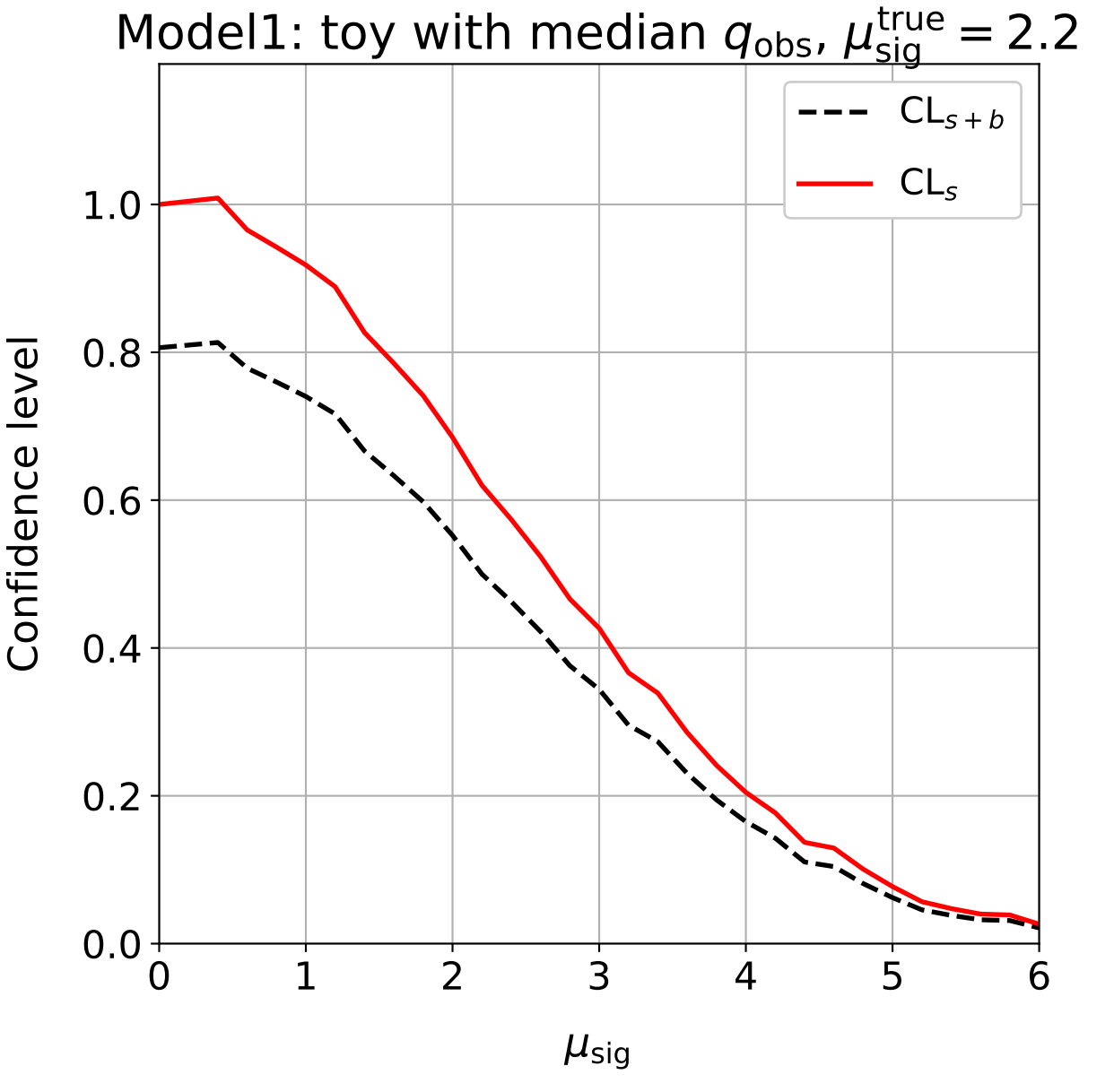

Model1: toy with median q_{obs}, $\mu_{\mathrm{sig}}^{\mathrm{true}} = 1.2$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

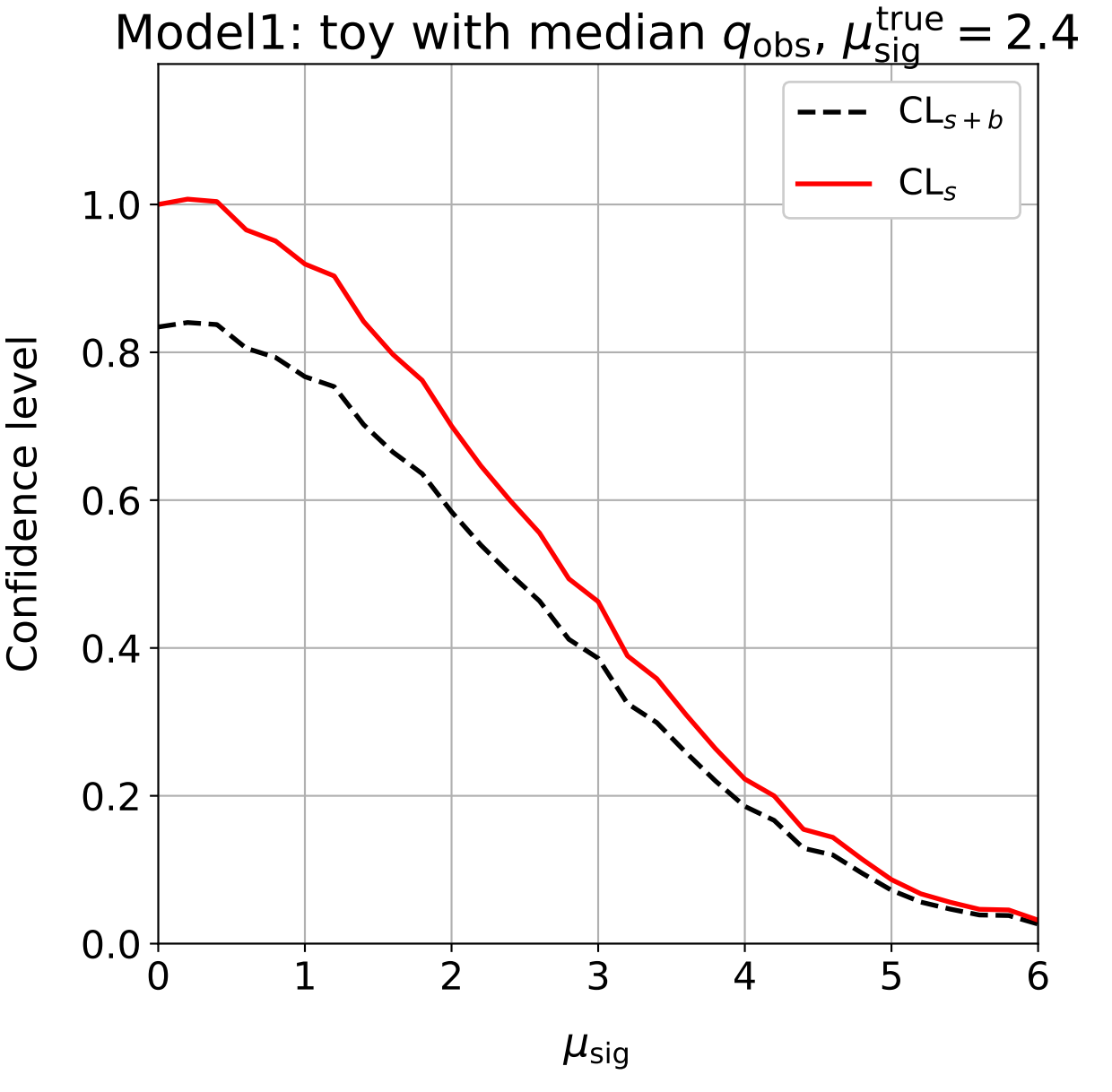

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 1.4$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

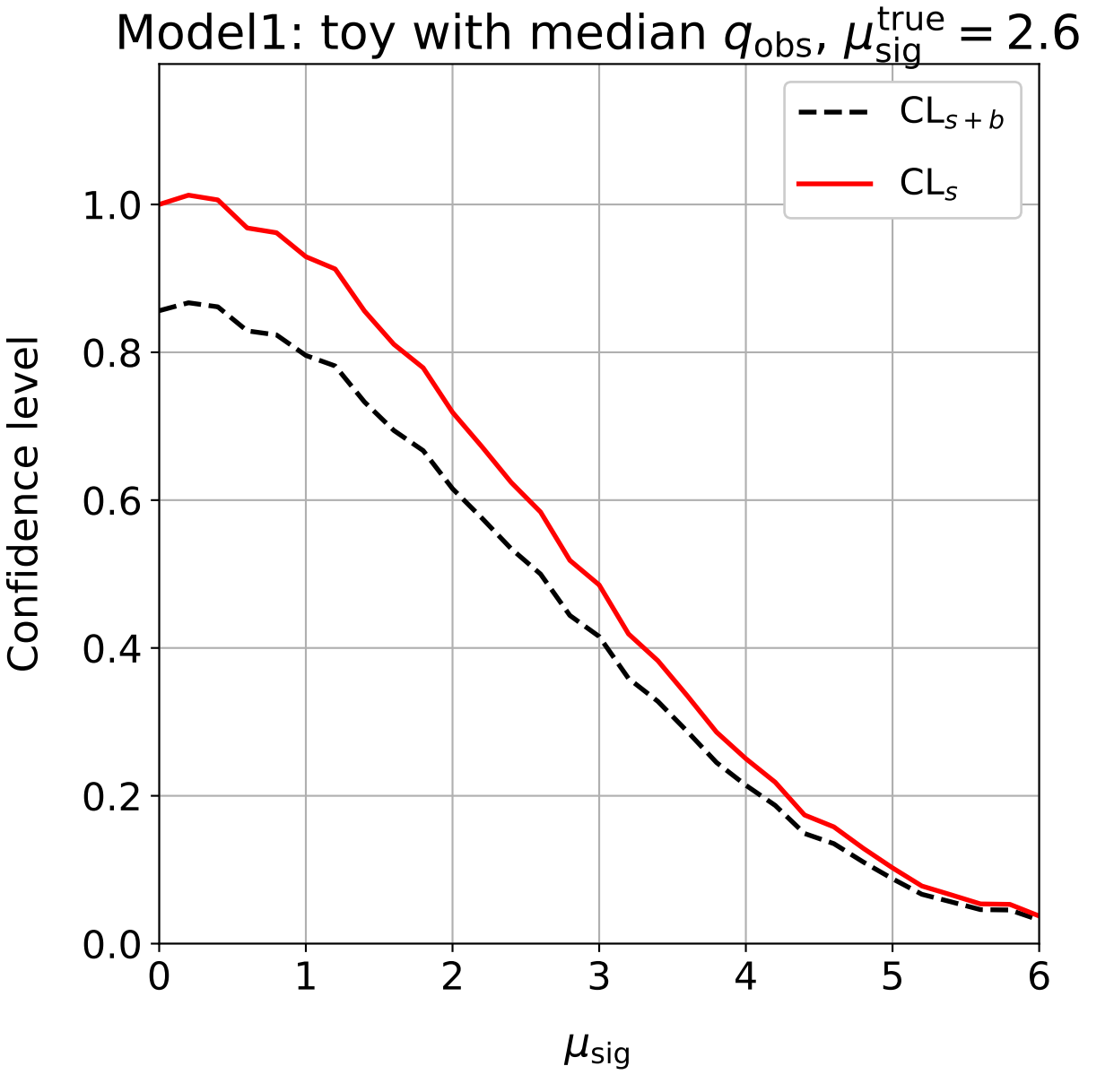

Model1: toy with median q_{obs}, $\mu_{\mathrm{sig}}^{\mathrm{true}} = 1.6$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

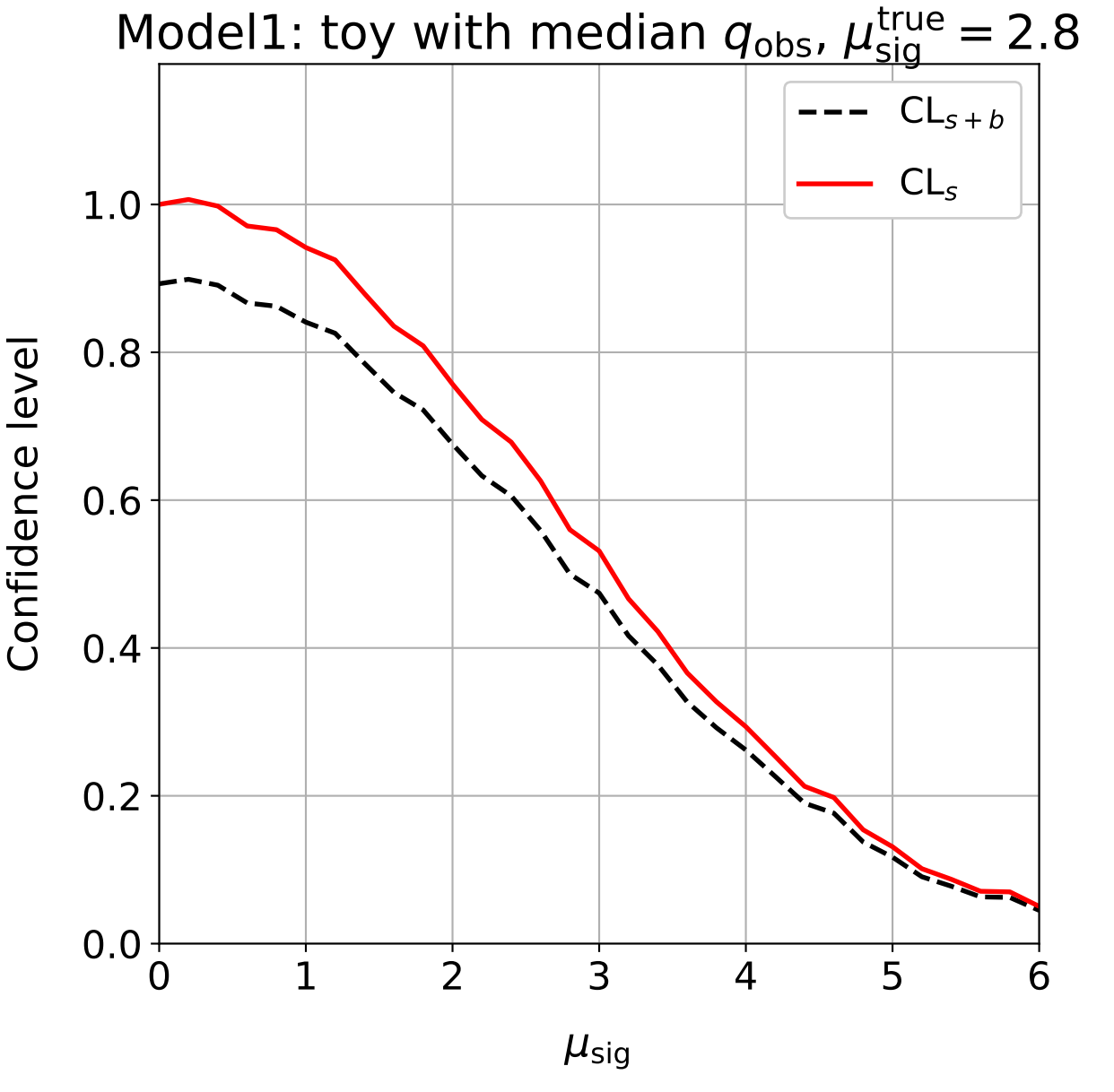

Model1: toy with median q_{obs}, $\mu_{\mathrm{sig}}^{\mathrm{true}} = 1.8$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

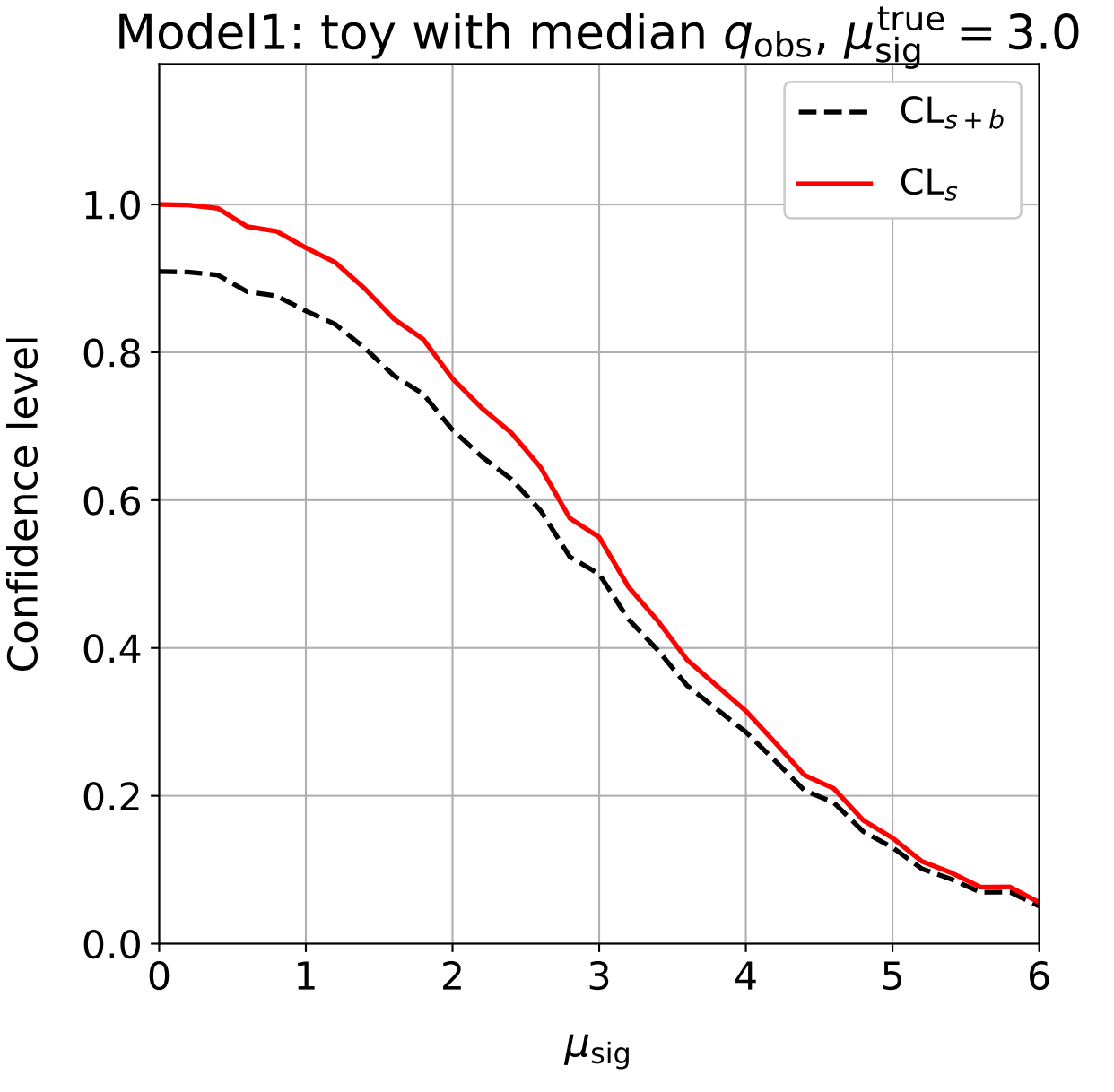

Model1: toy with median q_{obs}, $\mu_{\mathrm{sig}}^{\mathrm{true}} = 2.0$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

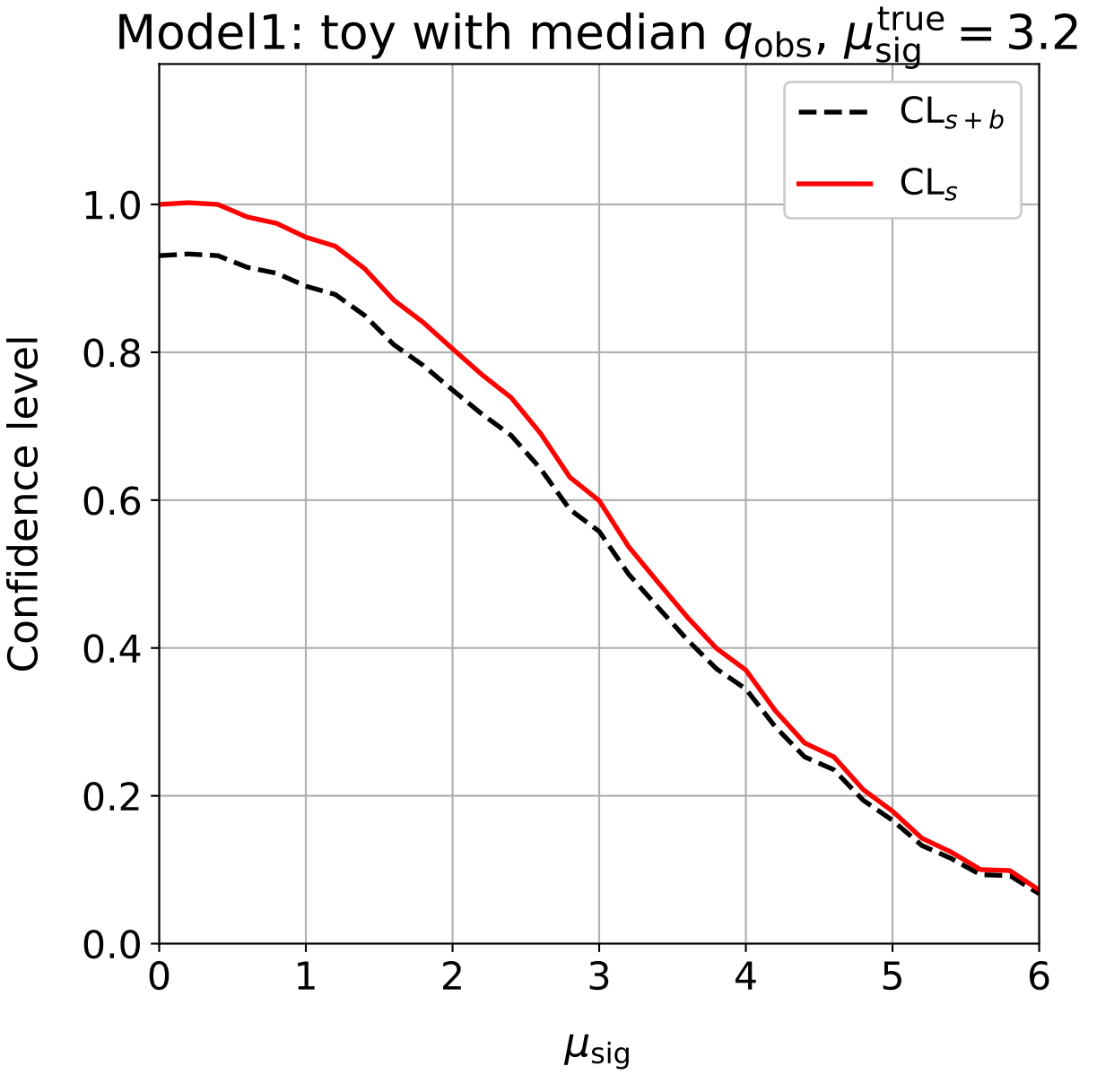

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 2.2$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

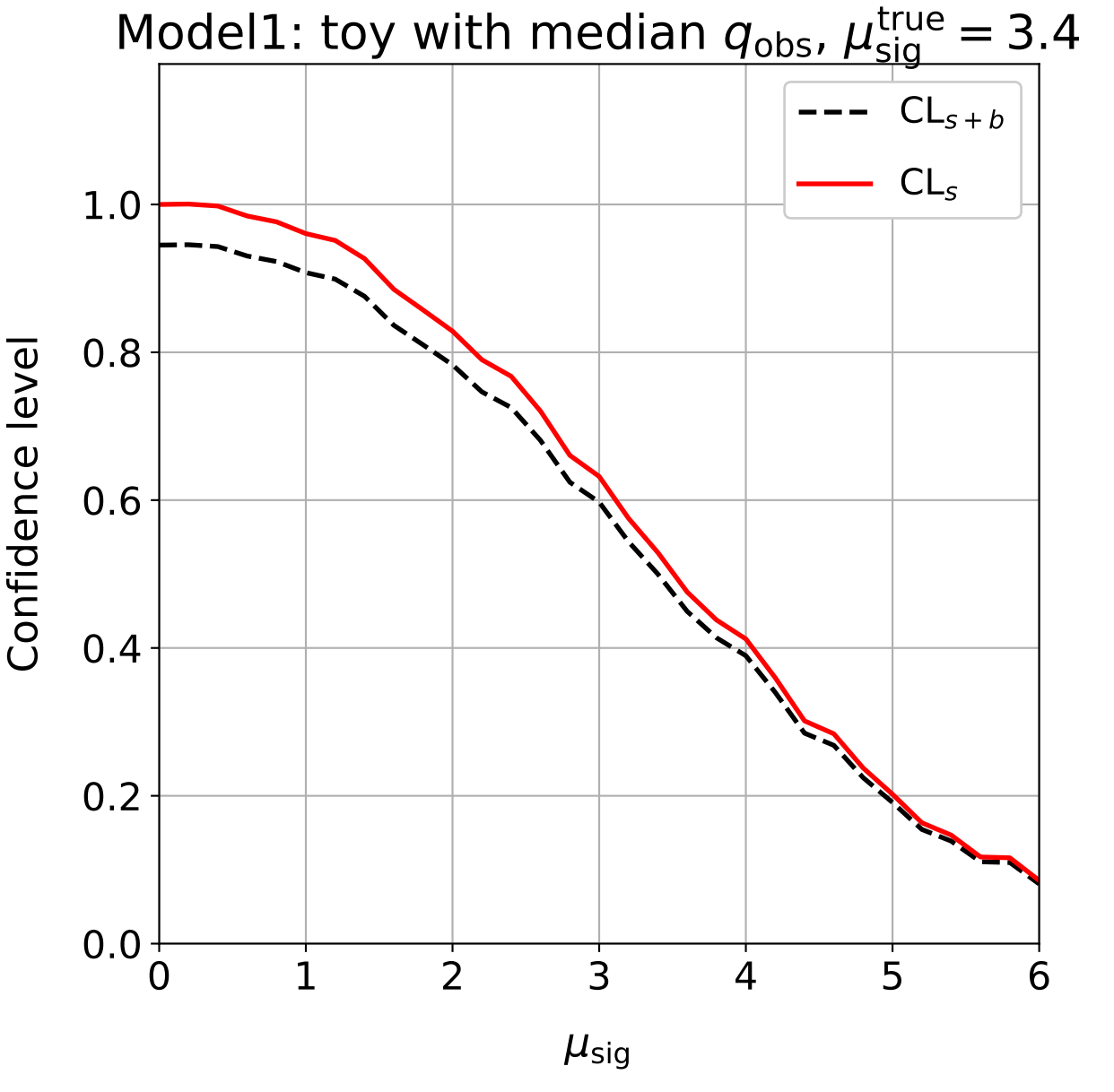

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 2.4$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

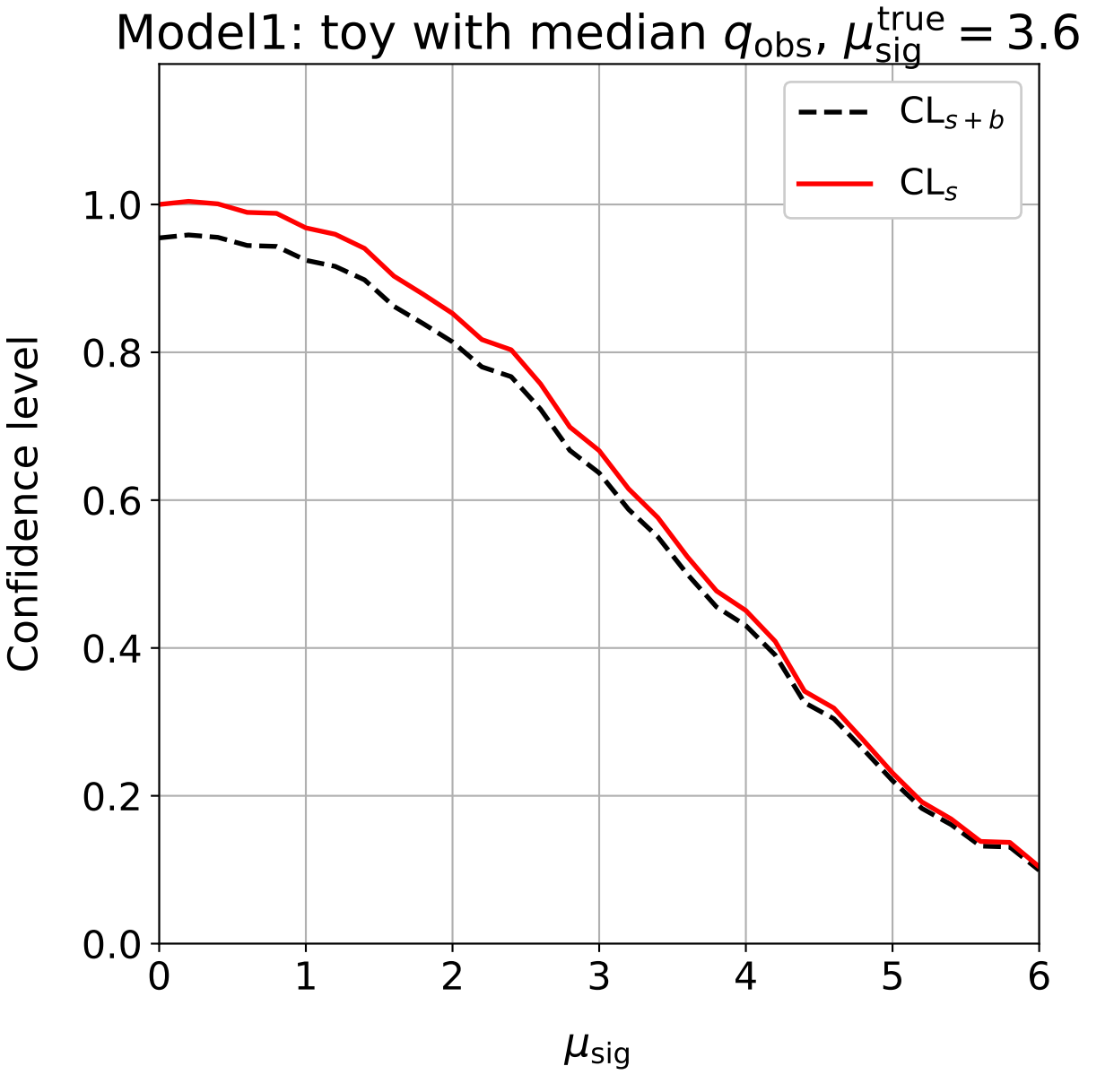

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 2.6$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

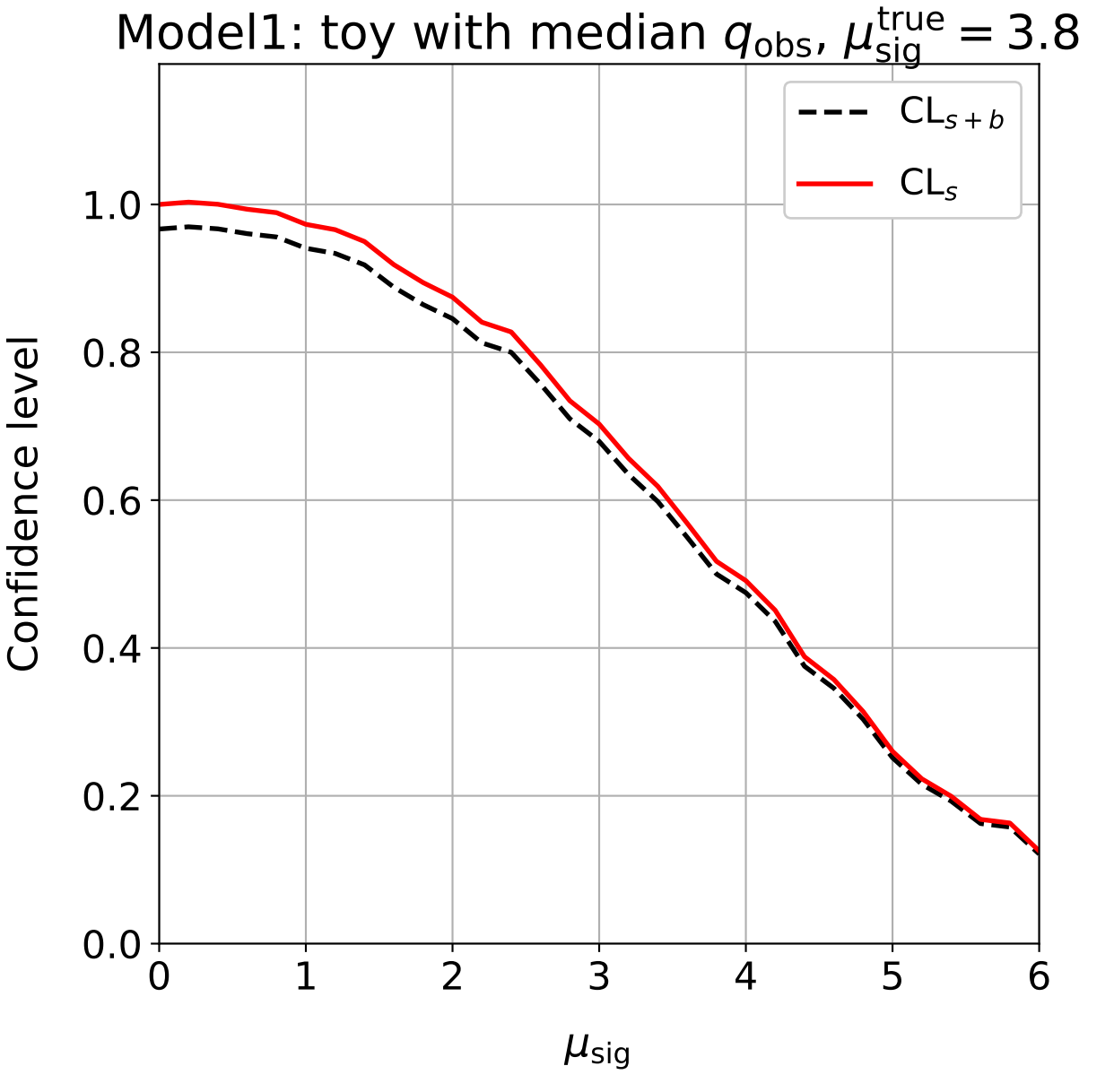

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 2.8$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

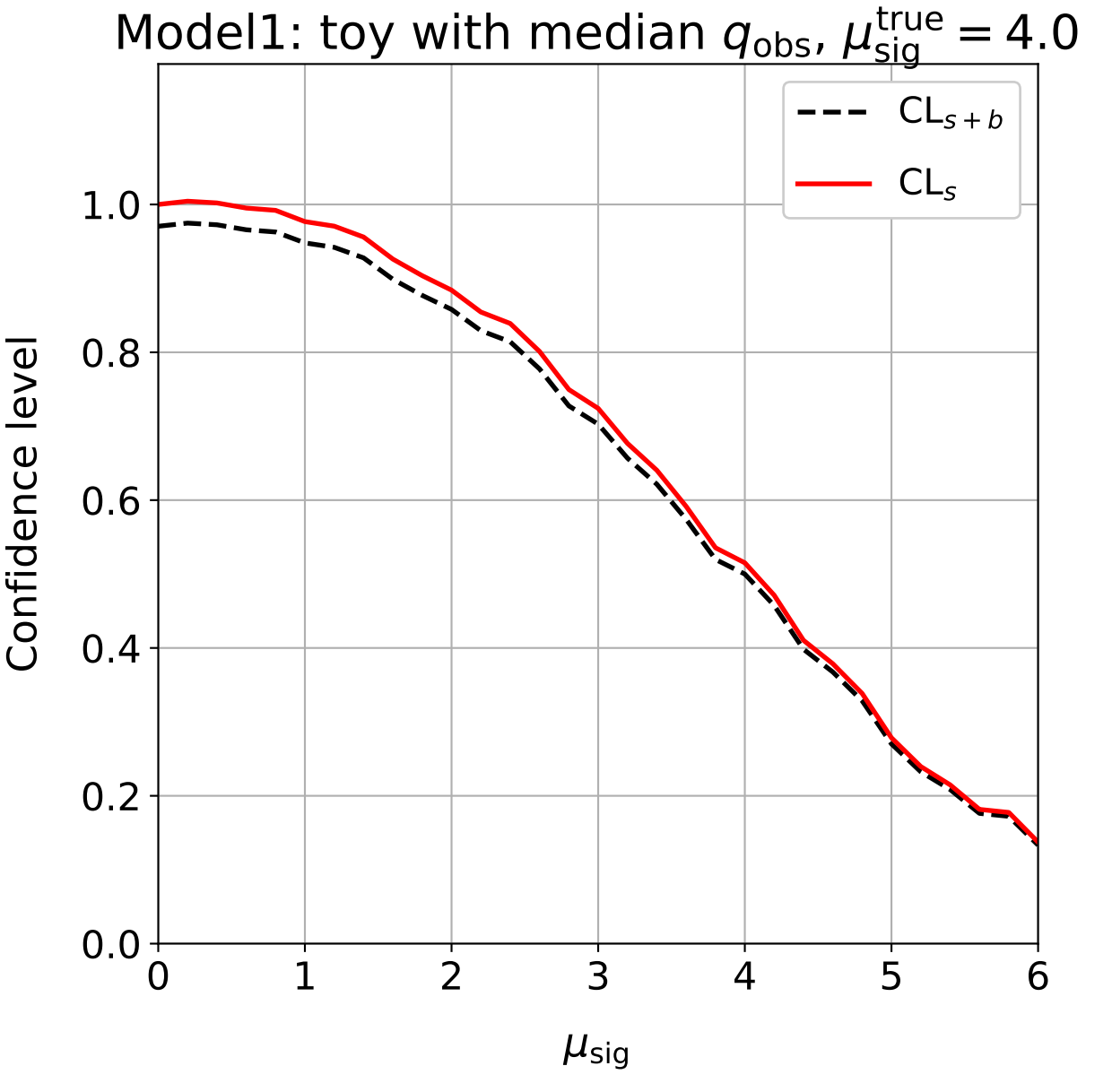

Model1: toy with median q_{obs}, $\mu_{\mathrm{sig}}^{\mathrm{true}} = 3.0$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

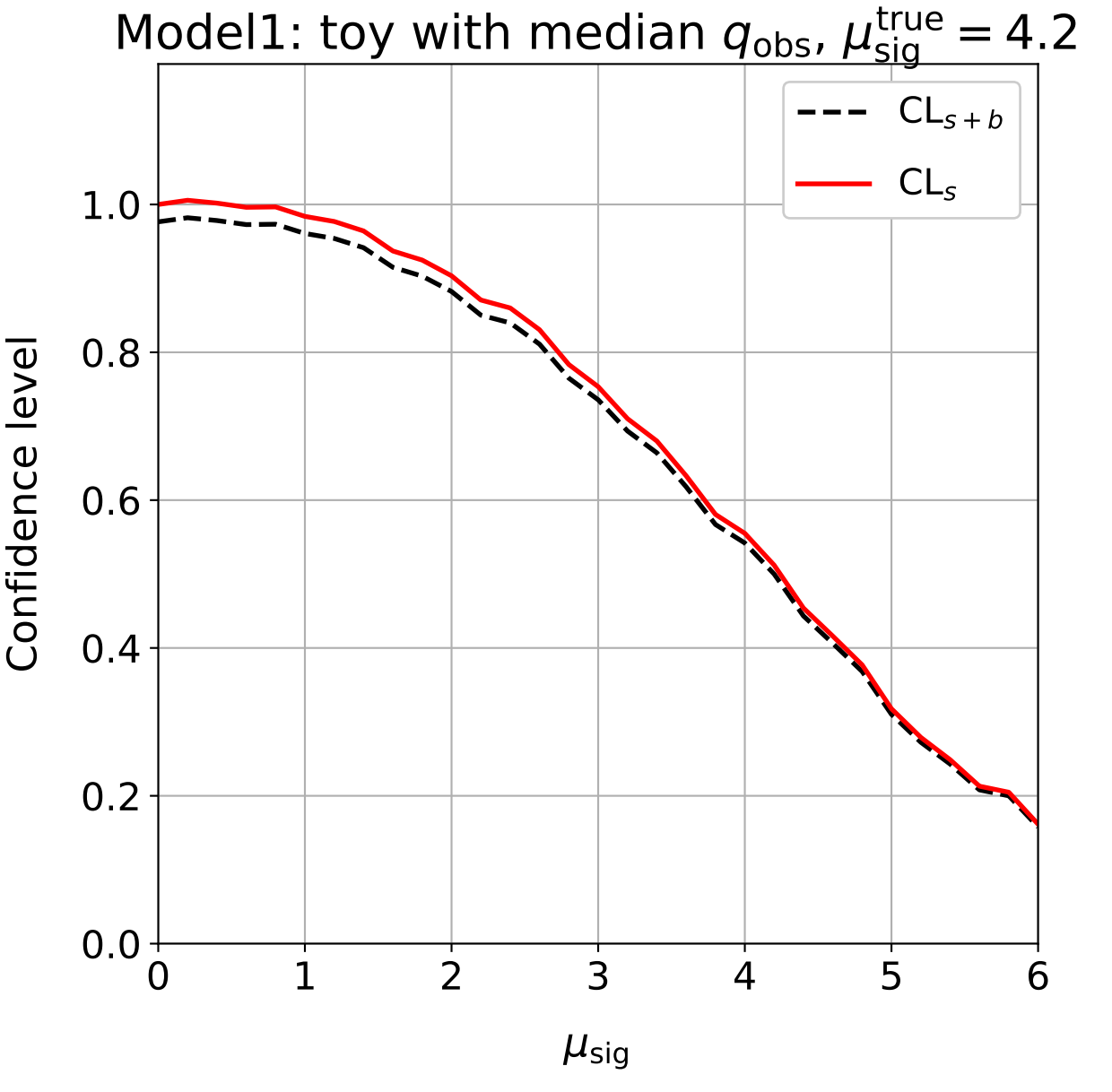

Model1: toy with median q_{obs}, $\mu_{\mathrm{sig}}^{\mathrm{true}} = 3.2$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

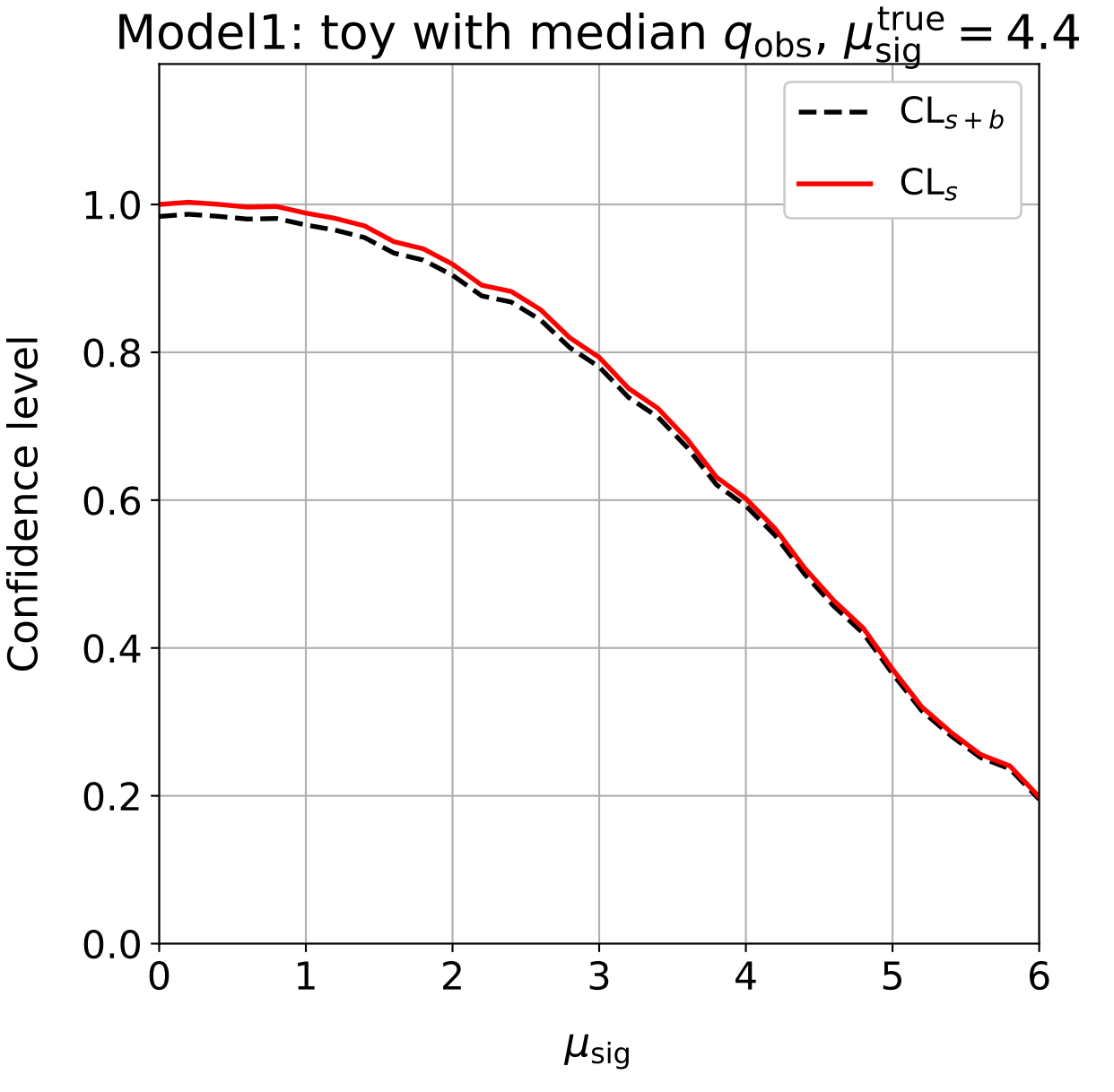

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 3.4$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

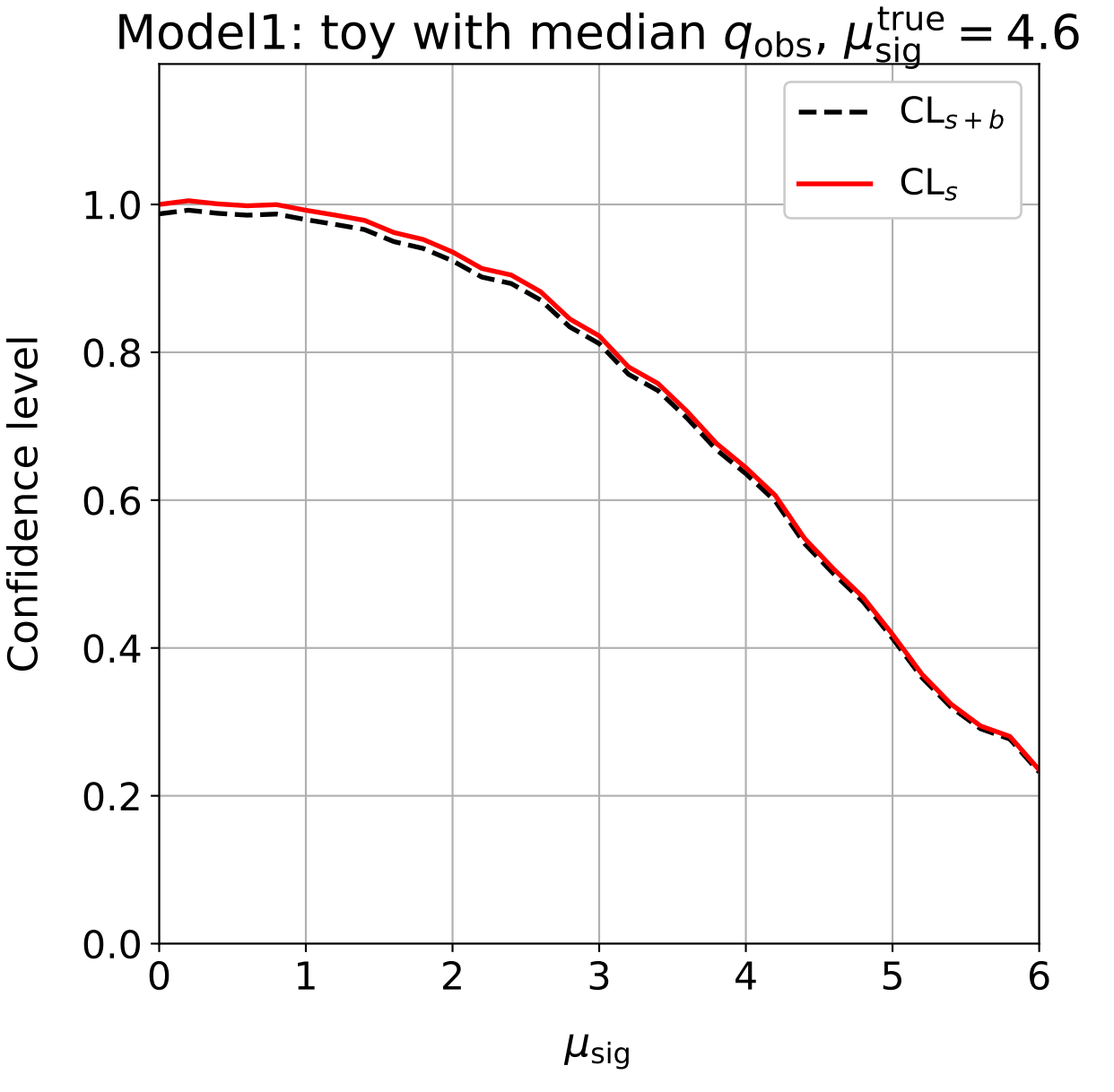

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 3.6$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

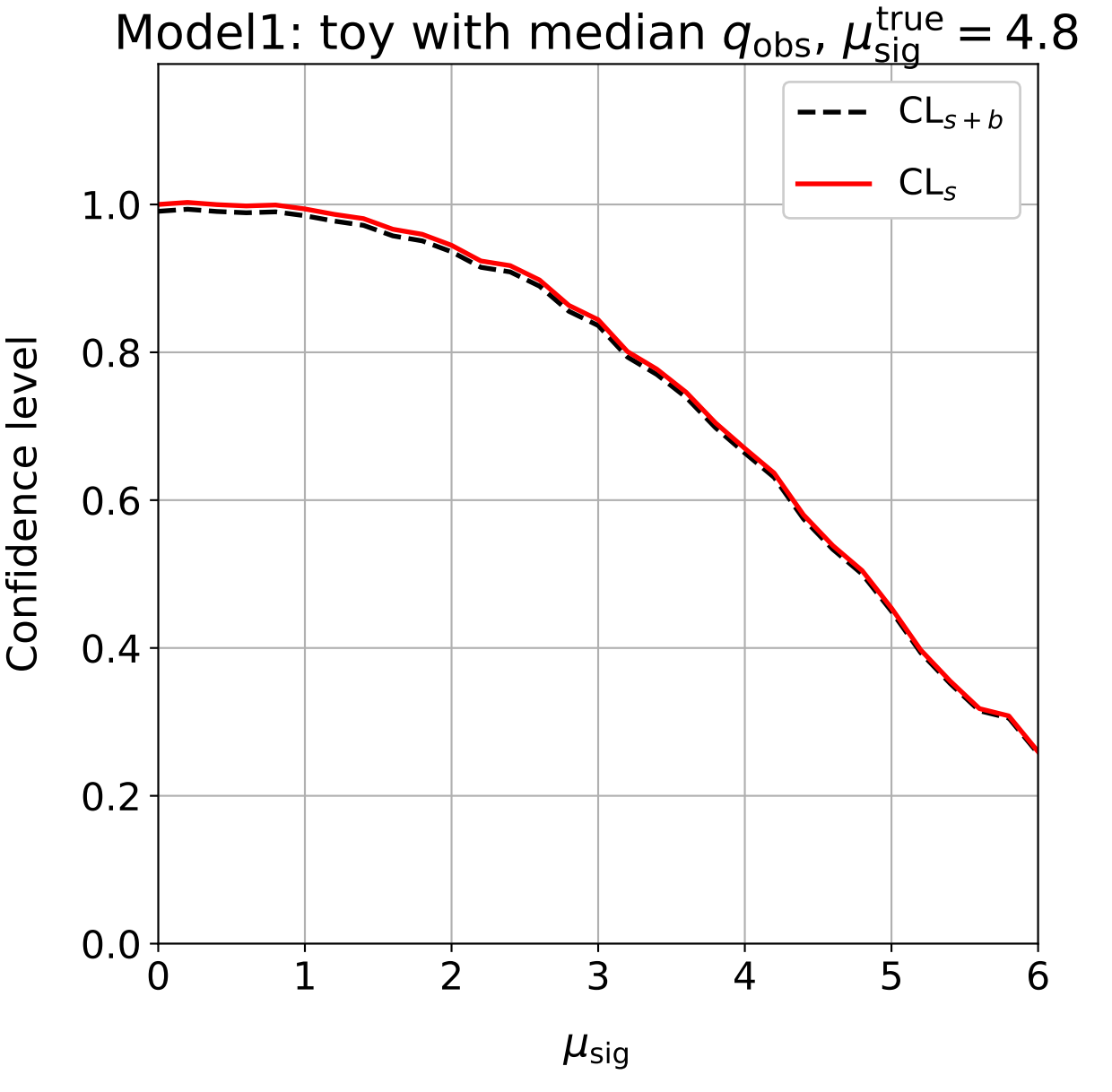

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 3.8$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

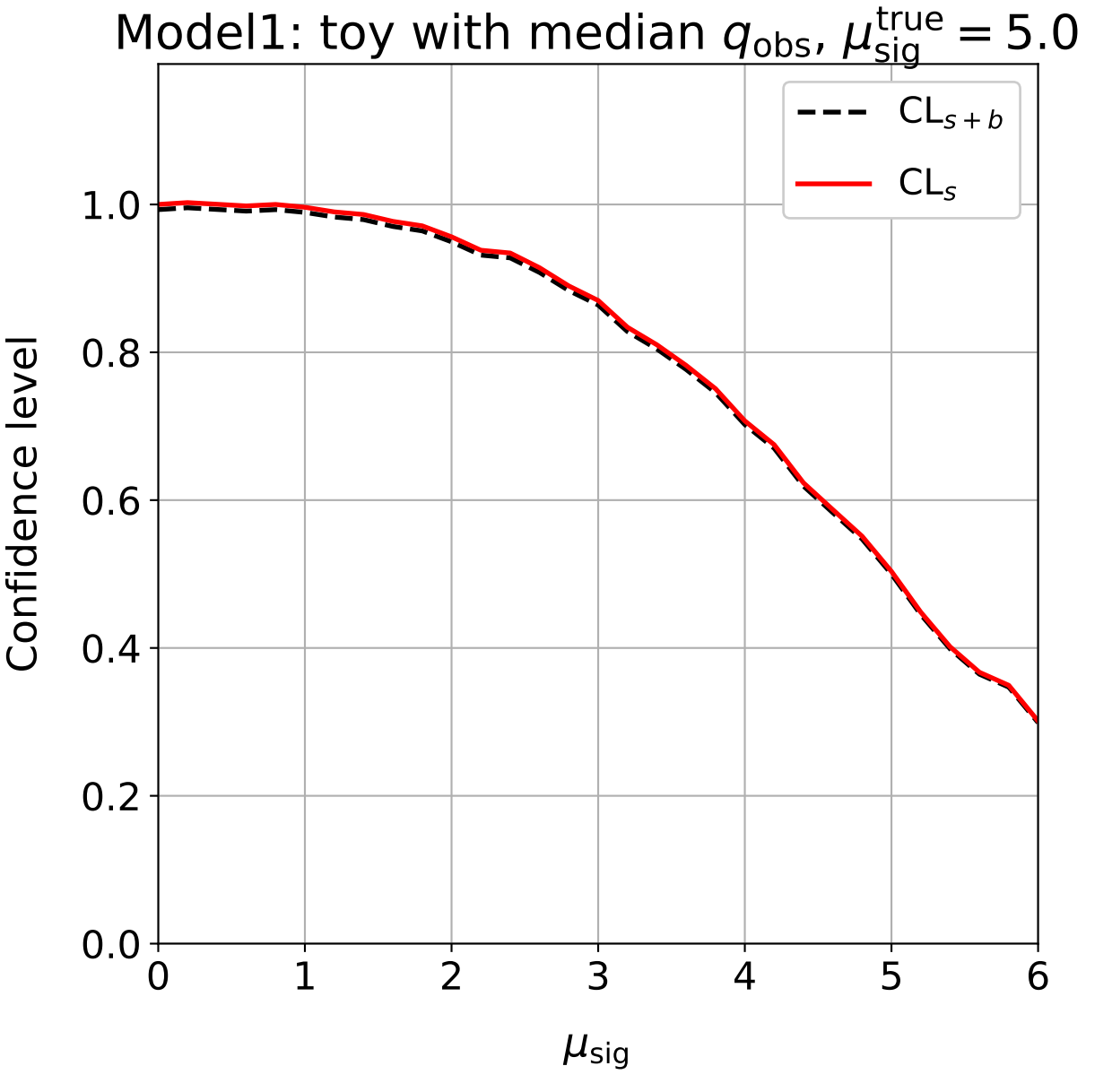

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 4.0$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

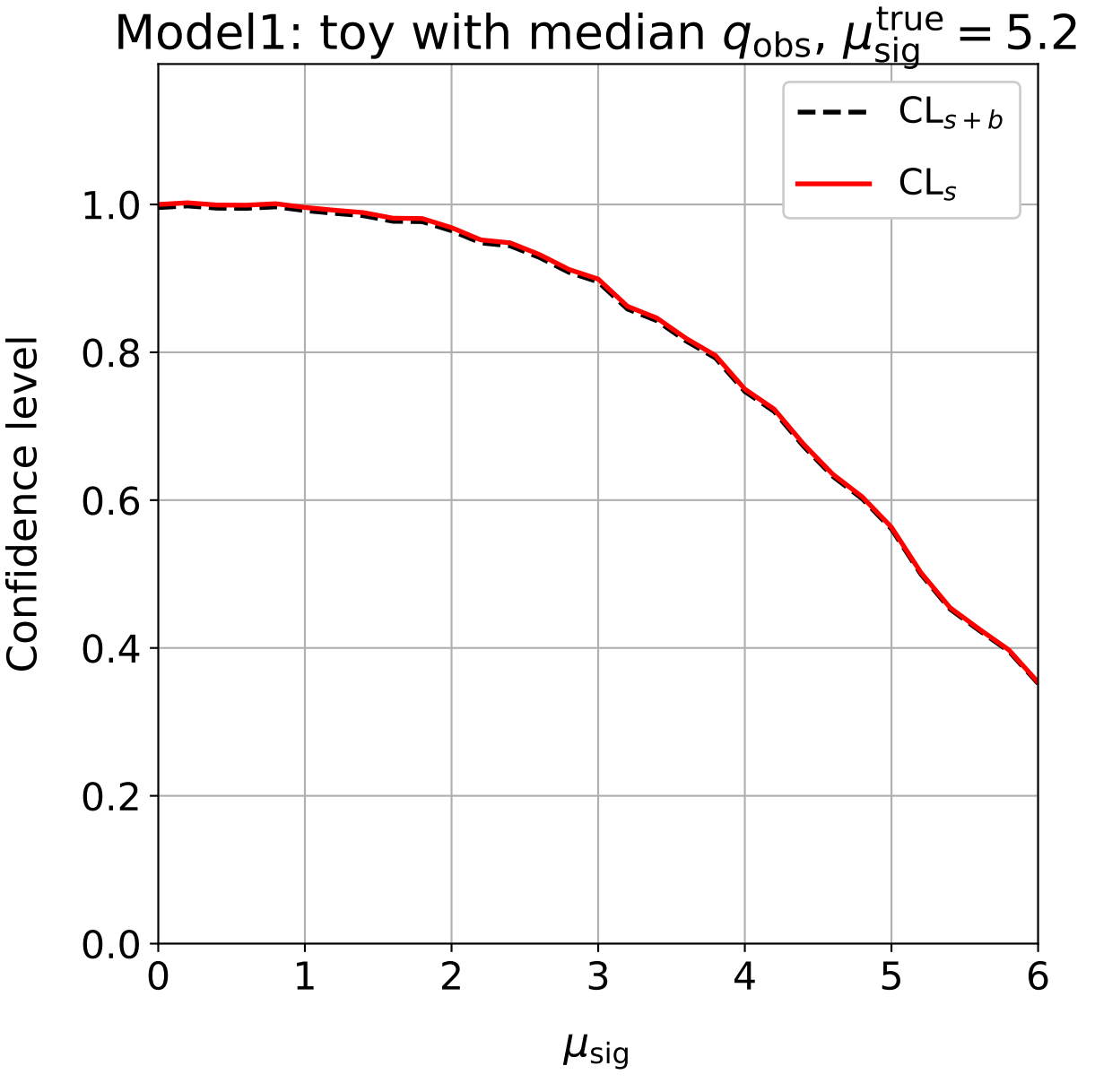

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 4.2$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

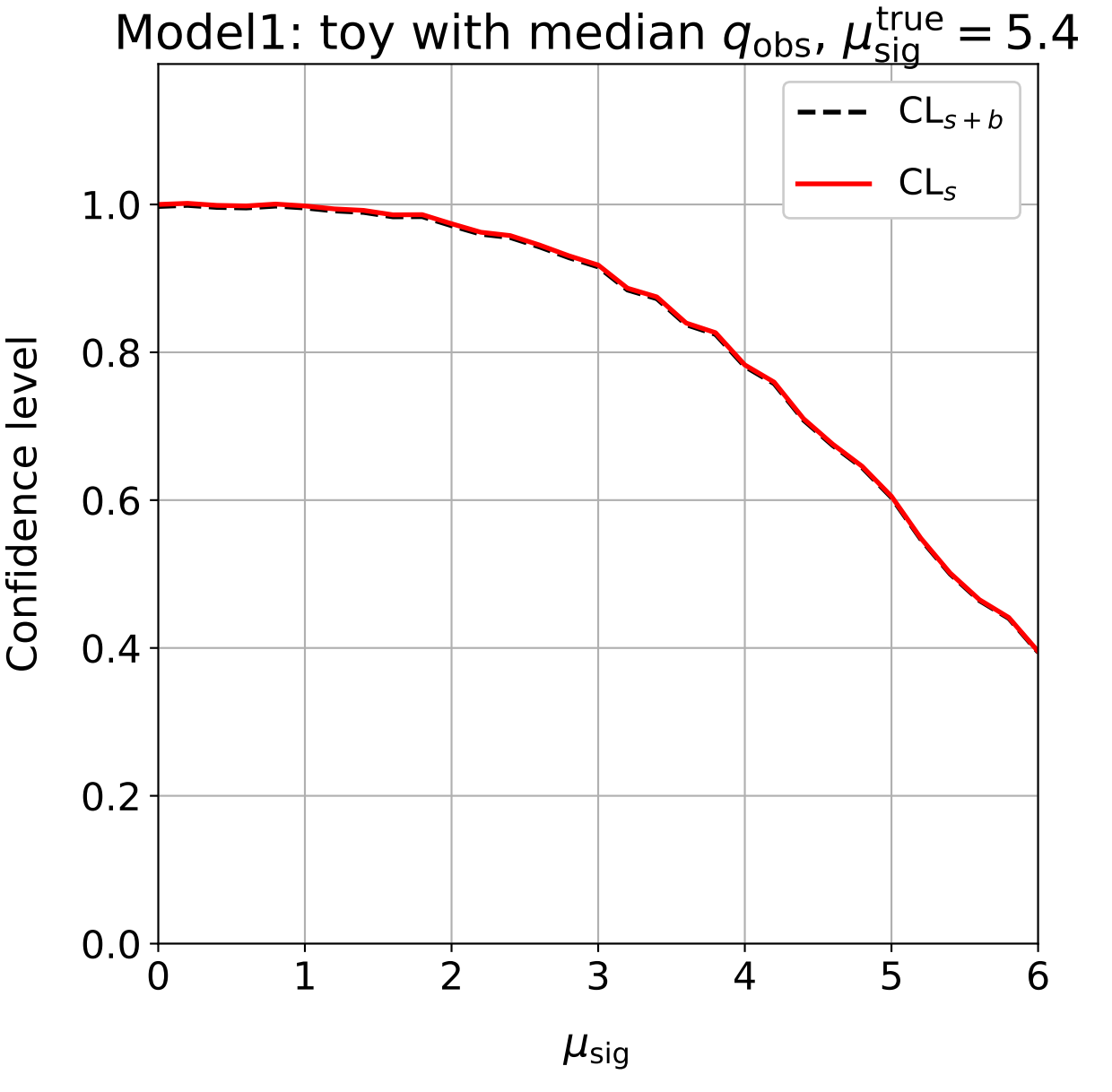

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 4.4$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

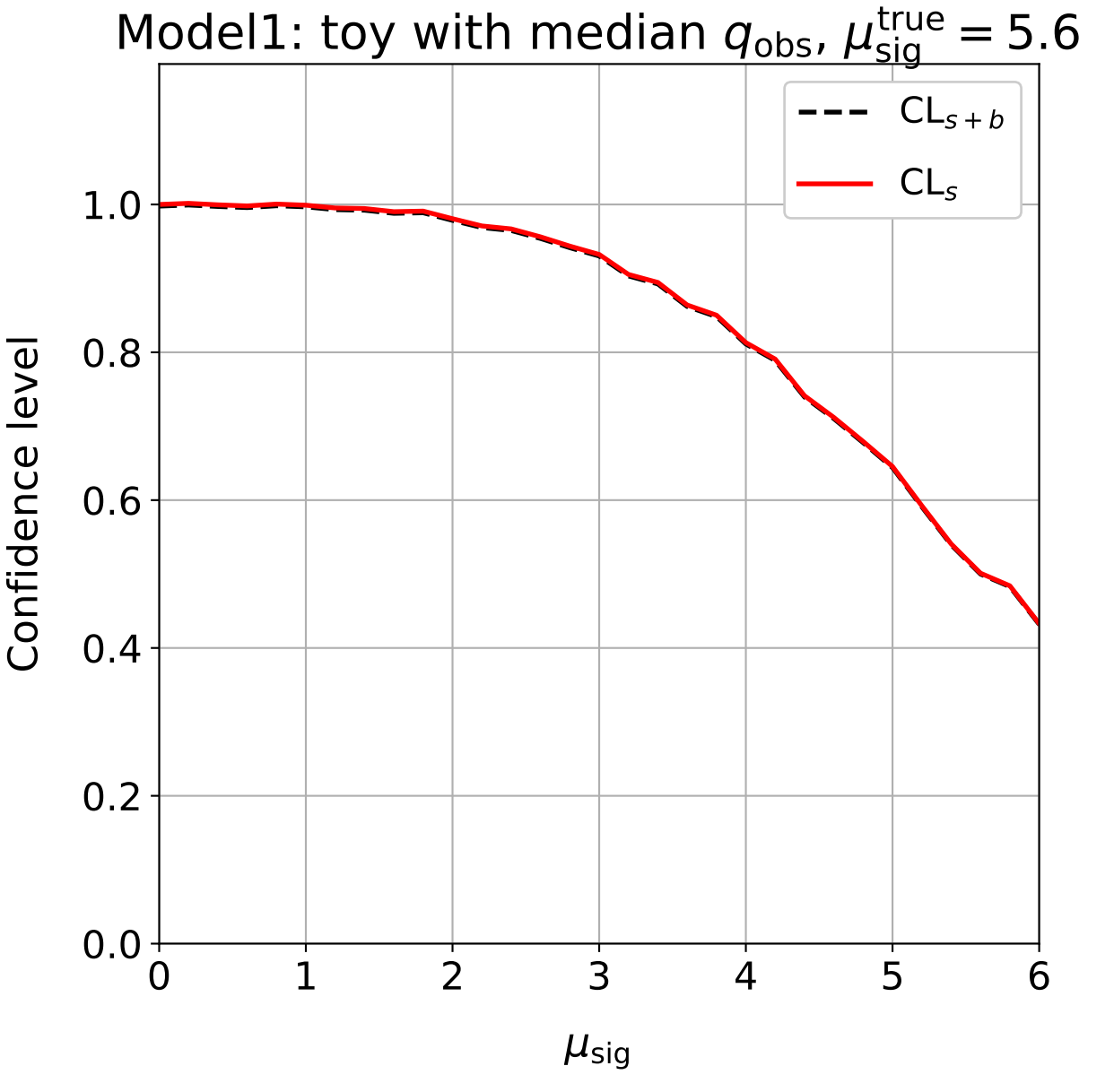

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 4.6$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

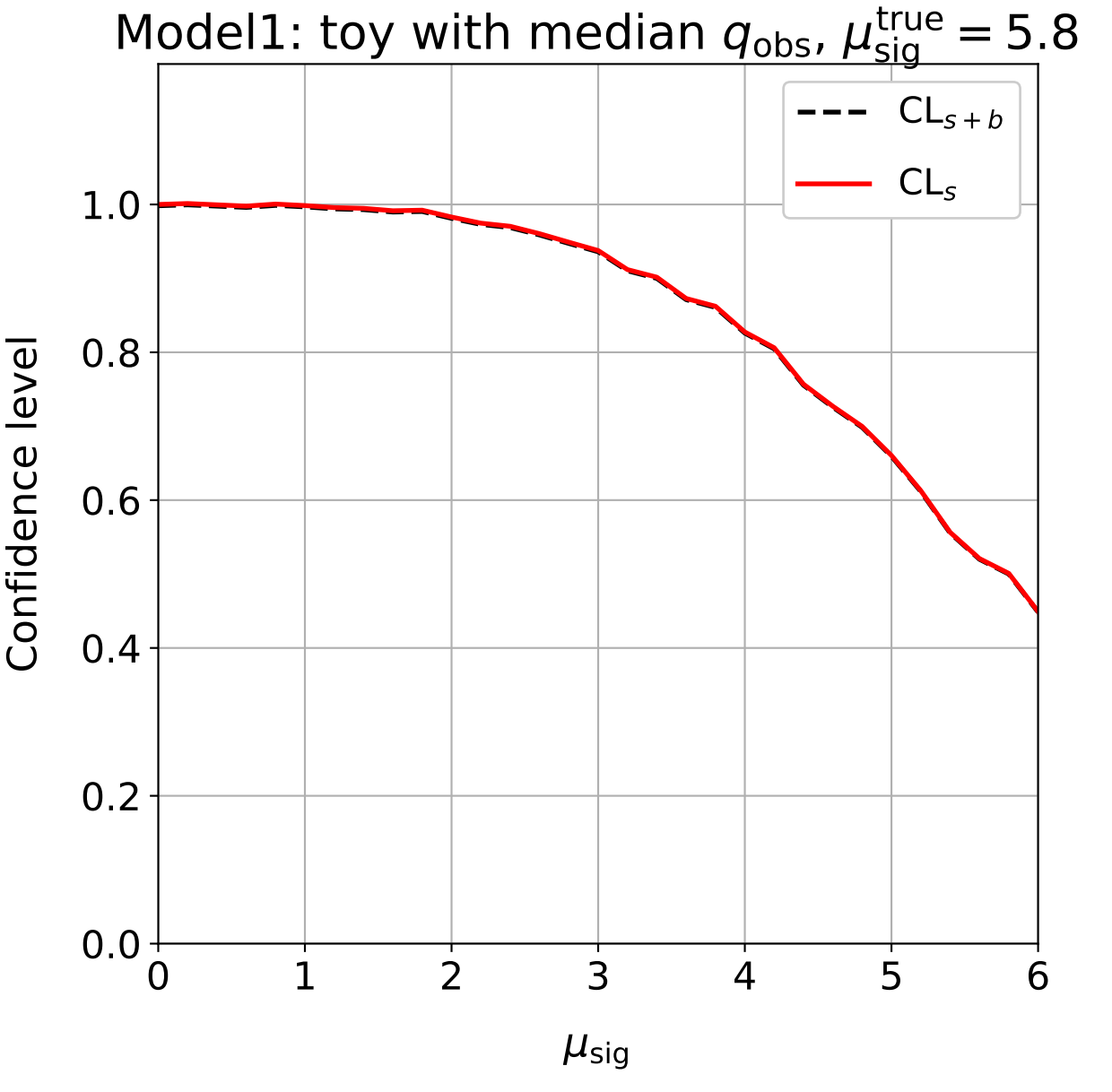

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 4.8$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

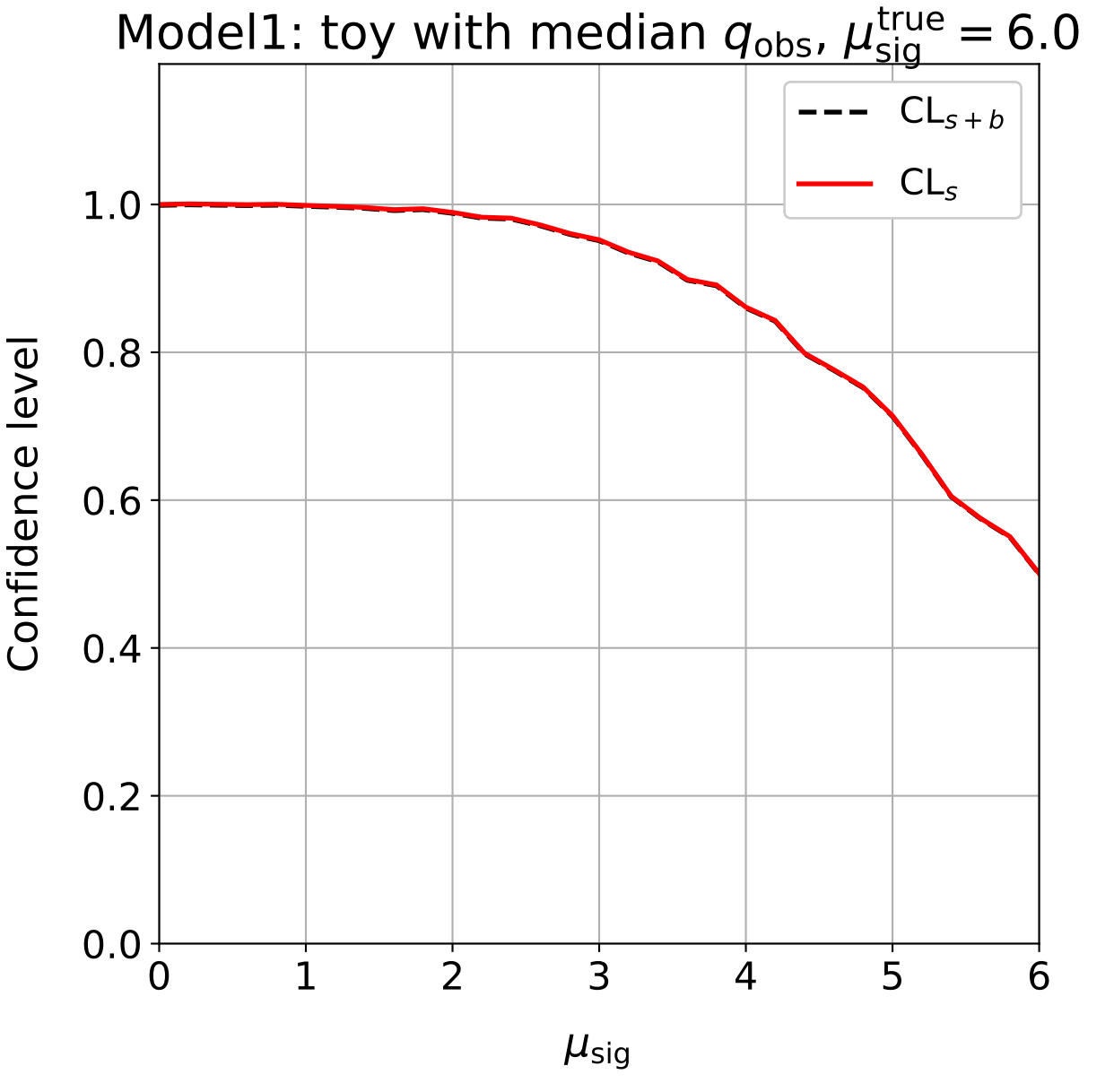

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 5.0$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}

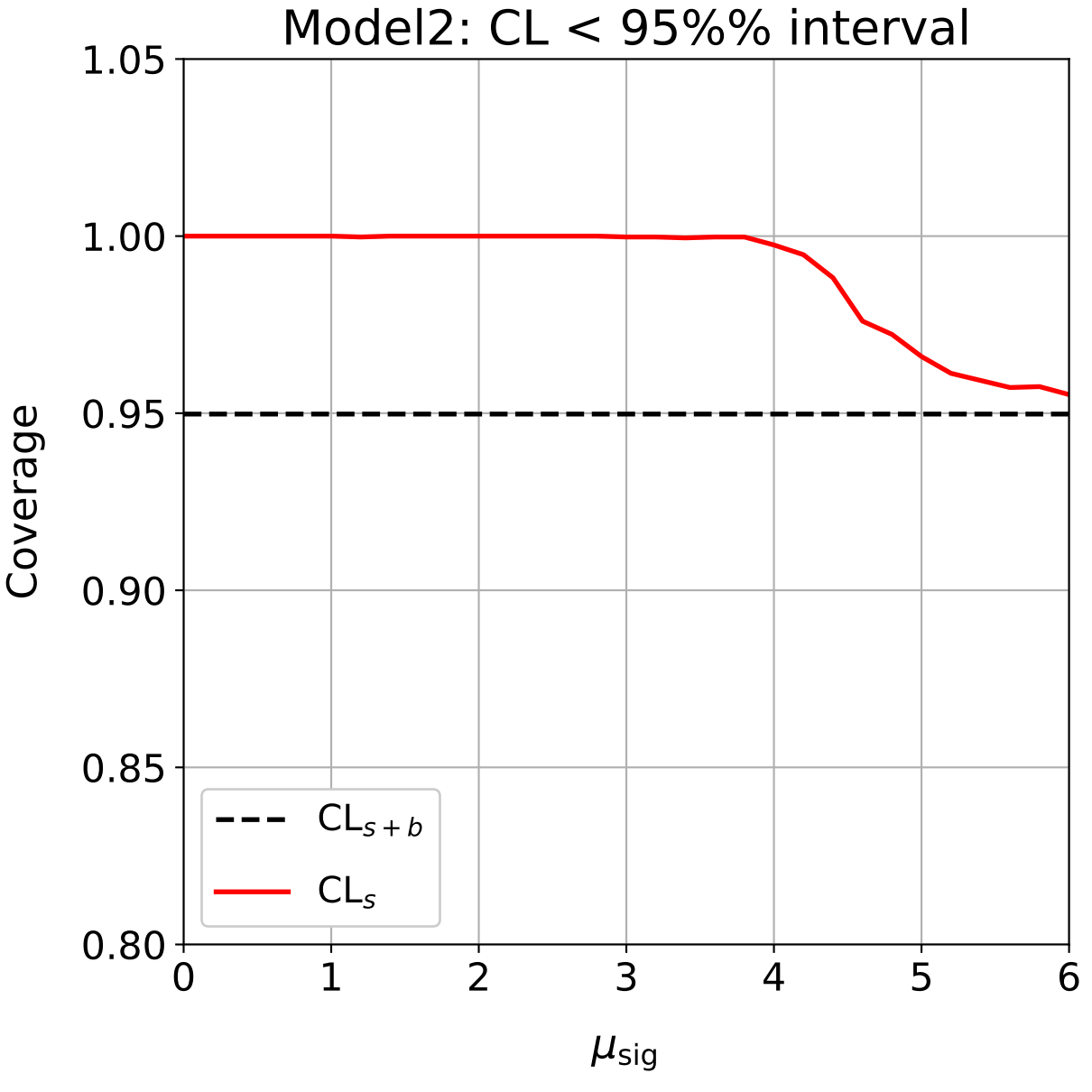

Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 5.2$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}


Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 5.4$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}


Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 5.6$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}


Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 5.8$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}


Model1: toy with median q_{obs}, $\mu_{\text{sig}}^{\text{true}} = 6.0$
CL_{s+b}
CL_s
Confidence level
0.0
0.2
0.4
0.6
0.8
1.0
0
1
2
3
4
5
6
μ_{sig}


Model2: CL < 95%% interval
1.05
1.00
0.95
0.90
0.85
0.80
Coverage
0
1
2
3
4
5
6
μ_{sig}
CL_{s+b}
CL_s