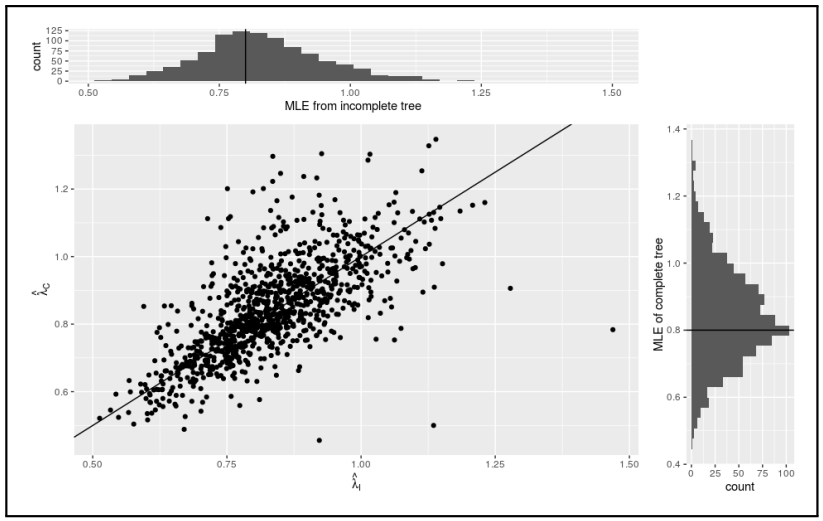
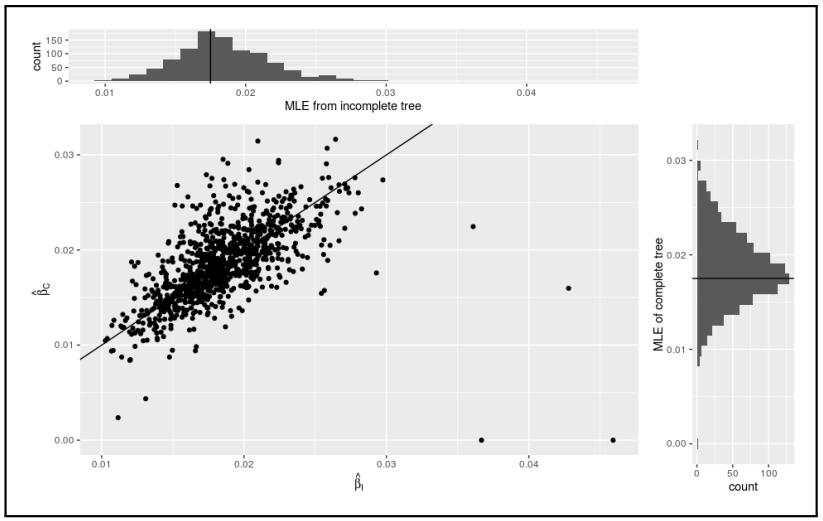
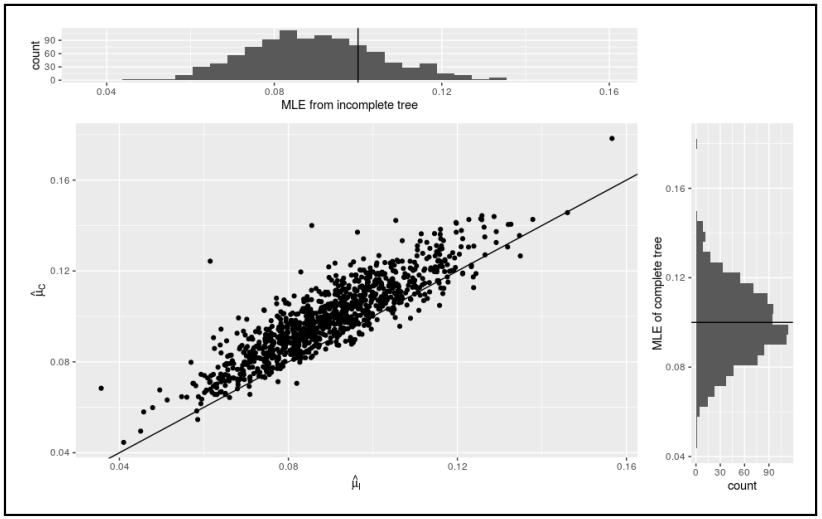
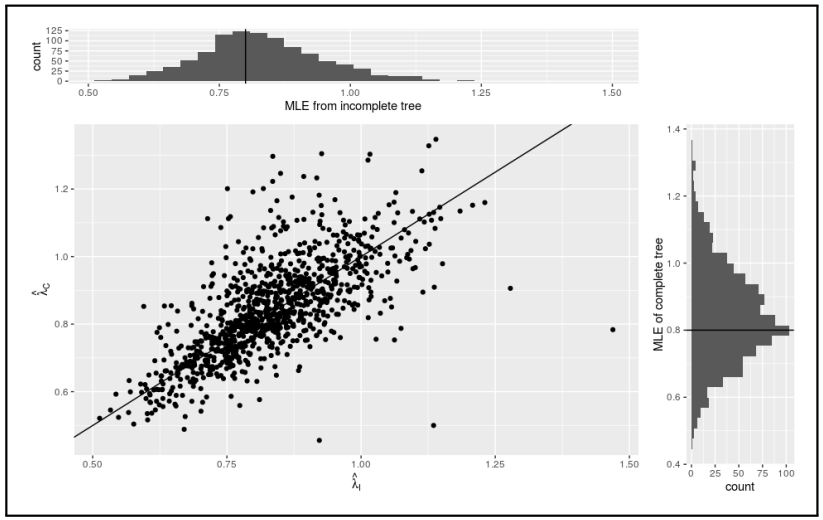
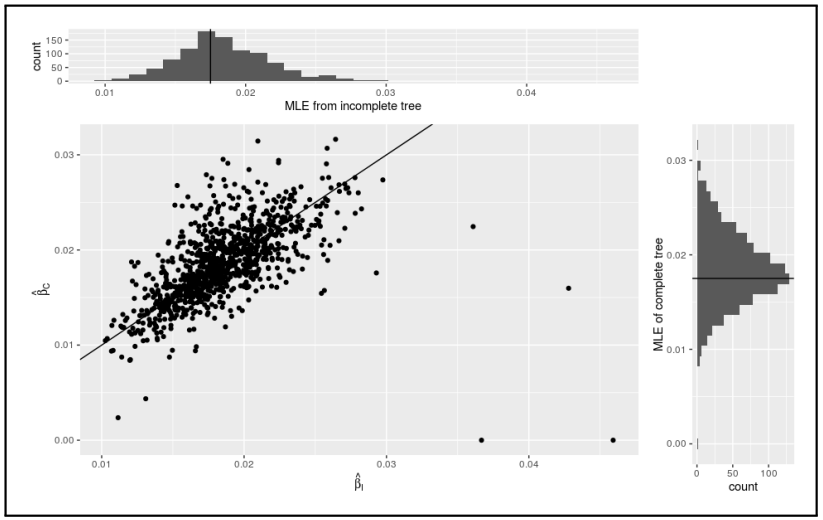

count
MLE from incomplete tree
MLE of complete tree
count


count
MLE from incomplete tree
MLE of complete tree
count

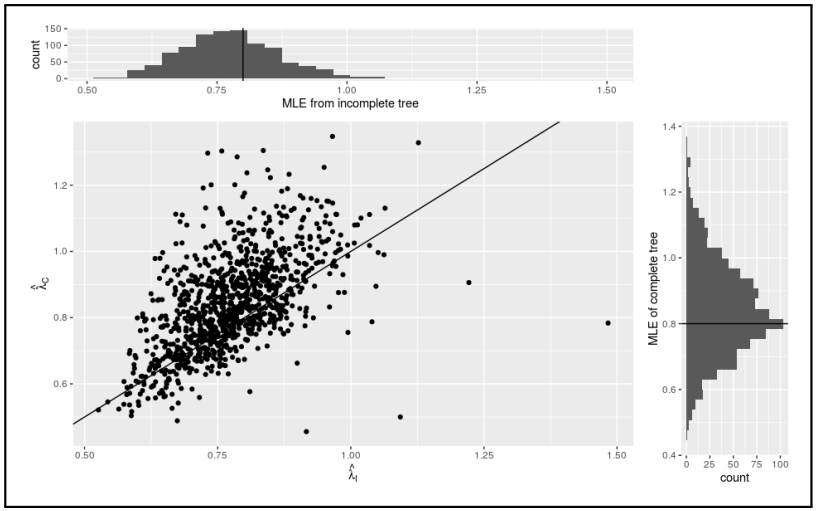

count
MLE from incomplete tree
MLE of complete tree
count

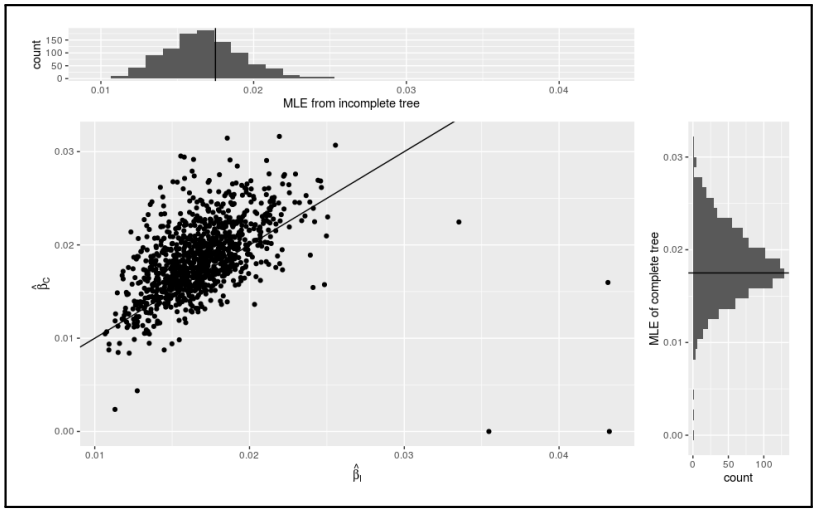
Fixed μ

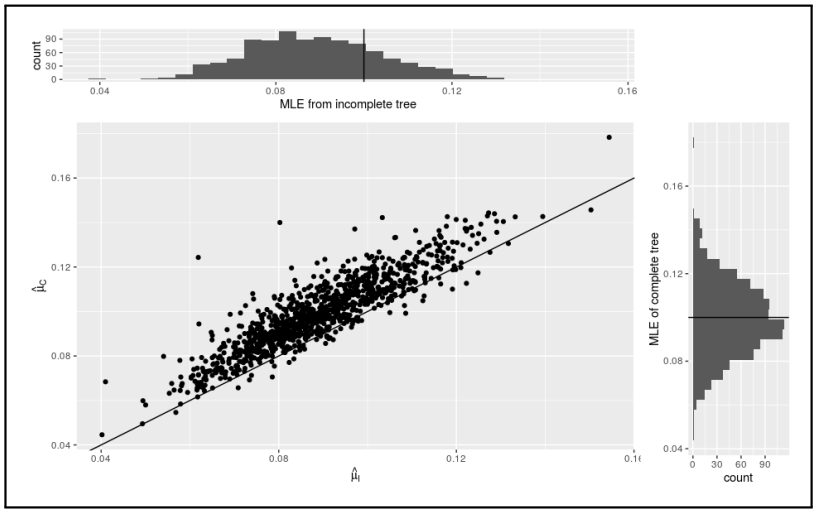

count
MLE from incomplete tree
$\hat{\lambda}_c$
$\hat{\lambda}_I$
MLE of complete tree
count


count
MLE from incomplete tree
$\hat{\beta}_c$
$\hat{\beta}_I$
MLE of complete tree
count

Importance sampling







Ex1

Tabulka: Comparison of EM performance fixing μ

EM it	lambda	beta	mu	K		lambda	beta	mu	K
[1]	4.000	0.175	0.100	22.286		4.000	0.175	1.000	17.143
[2]	0.614	0.016	0.100	32.704		0.805	0.021	0.136	31.580
[3]	0.664	0.016	0.100	35.690		0.783	0.019	0.080	37.704
[4]	0.678	0.015	0.100	37.520		0.685	0.016	0.075	39.200
[5]	0.680	0.015	0.100	38.402		0.616	0.014	0.071	39.798
[6]	0.663	0.014	0.100	39.067		0.581	0.013	0.066	39.888
[7]	0.677	0.015	0.100	39.209		0.584	0.013	0.062	39.323
[8]	0.648	0.014	0.100	39.756		0.531	0.012	0.058	40.144
[9]	0.643	0.014	0.100	39.696		0.561	0.013	0.053	38.961
[10]	0.665	0.014	0.100	39.127		0.543	0.013	0.050	39.080
[11]	0.606	0.013	0.100	40.086		0.521	0.012	0.046	39.228
[12]	0.630	0.013	0.100	39.547		0.530	0.013	0.043	38.645
[13]	0.578	0.012	0.100	40.531		0.529	0.013	0.040	38.370
[14]	0.598	0.012	0.100	39.973		0.506	0.012	0.037	38.920
[15]	0.664	0.014	0.100	39.096		0.504	0.012	0.034	38.653
[16]	0.604	0.013	0.100	40.063		0.482	0.011	0.033	39.180
[17]	0.661	0.014	0.100	39.163		0.488	0.012	0.031	38.775
[18]	0.672	0.015	0.100	39.200		0.478	0.012	0.029	38.934

Tabulka: Comparison with importance sampling

#	lambda	beta	mu	K		lambda	beta	K
[1]	4.000	0.175	1.000	17.143		4.000	0.175	22.286
[2]	0.775	0.020	0.128	31.801		0.609	0.016	32.674
[3]	0.812	0.020	0.078	37.196		0.702	0.017	35.344
[4]	0.704	0.016	0.073	38.708		0.728	0.017	37.142
[5]	0.641	0.015	0.070	39.302		0.764	0.018	37.789
[6]	0.637	0.015	0.065	38.762		0.734	0.016	38.896
[7]	0.612	0.014	0.062	38.771		0.694	0.015	39.403
[8]	0.621	0.015	0.059	38.226		0.679	0.015	39.346
[9]	0.600	0.014	0.055	38.428		0.689	0.015	39.478
[10]	0.589	0.014	0.054	38.583		0.694	0.015	39.415
[11]	0.581	0.014	0.052	38.574		0.710	0.015	39.559
[12]	0.576	0.014	0.052	38.405		0.708	0.015	39.571
[13]	0.583	0.014	0.049	38.059		0.699	0.015	39.449
[14]	0.569	0.014	0.047	38.291		0.690	0.015	39.425
[15]	0.553	0.013	0.045	38.210		0.659	0.014	39.896
[16]	0.541	0.013	0.042	38.409		0.654	0.014	39.855
[17]	0.528	0.013	0.039	38.450		0.713	0.016	39.179
[18]	0.522	0.013	0.039	38.570		0.748	0.017	38.541
[19]	0.511	0.012	0.036	38.568		0.734	0.016	38.949
[20]	0.502	0.012	0.034	38.586		0.733	0.016	38.925
[21]	0.484	0.012	0.031	39.035		0.677	0.014	40.082
[22]	0.478	0.012	0.029	39.036		0.713	0.016	39.195
[23]	0.466	0.011	0.026	39.173		0.698	0.015	39.448
[24]	0.454	0.011	0.023	39.305		0.628	0.013	40.390
[25]	0.448	0.011	0.021	39.507		0.682	0.015	39.467
[26]	0.433	0.010	0.018	39.872		0.655	0.014	39.872
[27]	0.427	0.010	0.016	40.006		0.683	0.015	39.317
[28]	0.419	0.010	0.014	40.072		0.677	0.015	39.291
[29]	0.413	0.010	0.012	40.375		0.706	0.016	39.022
[30]	0.408	0.010	0.012	40.484		0.669	0.014	39.999