

**Table 1 - Different approximations of the standard deviations of the estimators**

Method	$K$	$R$	$c_1$	$c_2$	$c_3$	$\sigma$	mRNA(0)
Fisher inf. matrix 100 experiments	10	10	0.0545104 0.0358142	0.561963 0.198700	0.935324 0.262223	0.364339 0.392884	0.639471 0.490305
Fisher inf. matrix 100 experiments	20	20	0.0324508 0.0304157	0.299487 0.167431	0.451476 0.287471	0.174095 0.134506	0.594820 0.436059
Fisher inf. matrix 100 experiments	50	50	0.0139185 0.0140331	0.110709 0.078516	0.152229 0.146232	0.0440282 0.0353837	0.238033 0.183888
Fisher inf. matrix 100 experiments	100	100	0.00866066 0.00691956	0.0548249 0.0430123	0.0728129 0.0641821	0.0182564 0.0217544	0.208469 0.187968