

Table S7 The error of $\tilde{f}_{\text{QLE}, \rho \gg 0}$ relative to \tilde{f}_{QLE} as in Table S3, but for $p_0 = 0.005$ fixed instead of $p_0 = 1/(2N)$.

r	m	$N_e = 10^3$											
		$N_e = 100$				$N_e = 10^3$				$N_e = 10^4$			
		$q_c = 0$	$q_c = 0.2$	$q_c = 0.5$	$q_c = 0.8$	$q_c = 0$	$q_c = 0.2$	$q_c = 0.5$	$q_c = 0.8$	$q_c = 0$	$q_c = 0.2$	$q_c = 0.5$	$q_c = 0.8$
0.05	0.006	3.818	1.995	0.770	0.211	6.508×10^5	1.879×10^4	241.353	6.201	1.336×10^{57}	1.441×10^{42}	4.175×10^{23}	3.344×10^8
0.05	0.012	1.391	0.901	0.382	0.106	1.278×10^4	2.064×10^3	77.230	3.392	7.871×10^{40}	1.579×10^{33}	1.430×10^{19}	4.120×10^6
0.05	0.018	0.280	0.299	0.167	0.054	26.941	41.405	5.751	0.457	6.210×10^{14}	1.430×10^{17}	1.010×10^{10}	419.102
0.05	0.024	0.025	0.118	0.092	0.035	-0.011	0.830	0.347	0.086	-0.393	1.274×10^4	4.193	0.192
0.10	0.006	0.404	0.301	0.169	0.060	22.709	11.552	3.765	0.842	3.840×10^{13}	7.486×10^{10}	5.327×10^6	433.553
0.10	0.012	0.149	0.129	0.080	0.030	4.909	4.137	1.987	0.537	5.790×10^7	1.559×10^7	7.196×10^4	85.052
0.10	0.018	0.033	0.048	0.037	0.015	0.388	0.611	0.342	0.092	48.191	472.445	85.111	3.239
0.10	0.024	0.003	0.022	0.022	0.010	-0.010	0.056	0.056	0.023	-0.058	0.174	0.131	0.046
0.20	0.006	0.083	0.067	0.042	0.017	1.179	0.914	0.528	0.191	2.233×10^3	620.925	66.145	4.670
0.20	0.012	0.027	0.027	0.019	0.008	0.438	0.441	0.312	0.125	39.267	40.862	15.423	2.404
0.20	0.018	0.006	0.010	0.009	0.004	0.034	0.067	0.055	0.022	0.640	1.758	1.391	0.401
0.20	0.024	0.000	0.005	0.006	0.003	-0.002	0.010	0.012	0.006	-0.006	0.020	0.024	0.012

The relative error is computed as $\tilde{f}_{\text{QLE}, \rho \gg 0} / \tilde{f}_{\text{QLE}} - 1$. It quantifies the effect of assuming ρ very large in $\mathcal{M}(\rho)$ when deriving the diffusion approximation of the mean absorption time. Other parameters are $\alpha = 0.02$ and $b = 0.04$. For a graphical representation, see Figure S13E.