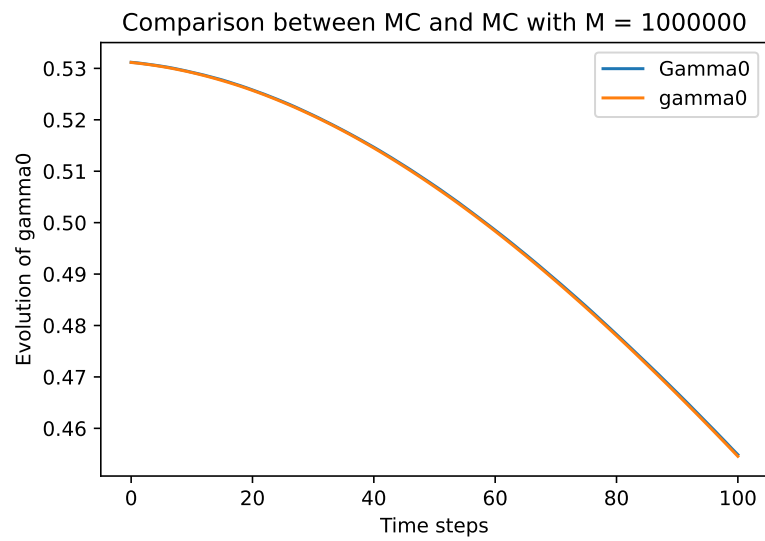


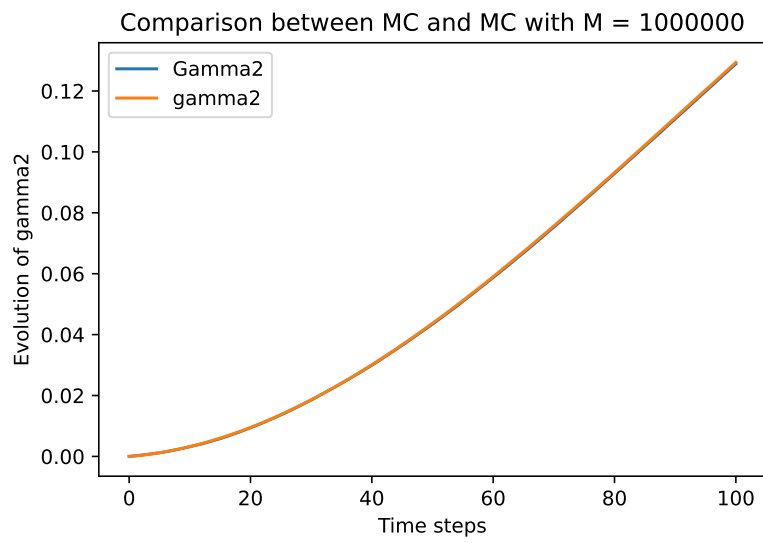
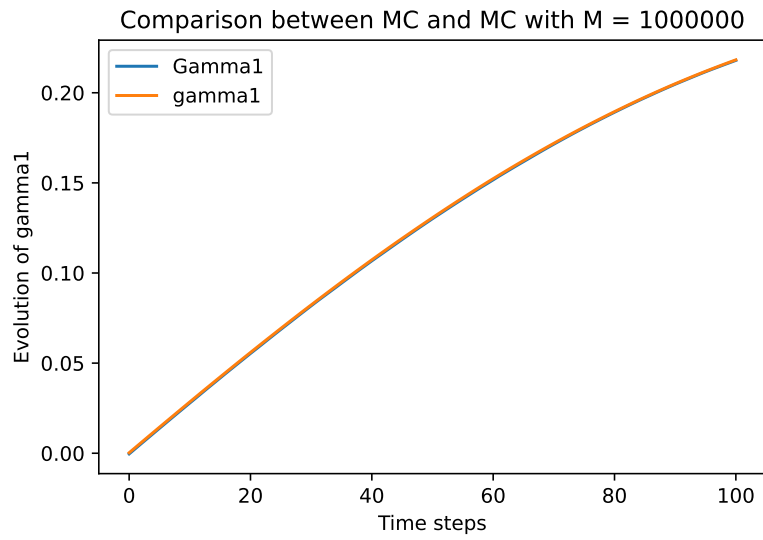
Numerical Study with $T = 1$, $n = 3$, $\sigma = 0.3$

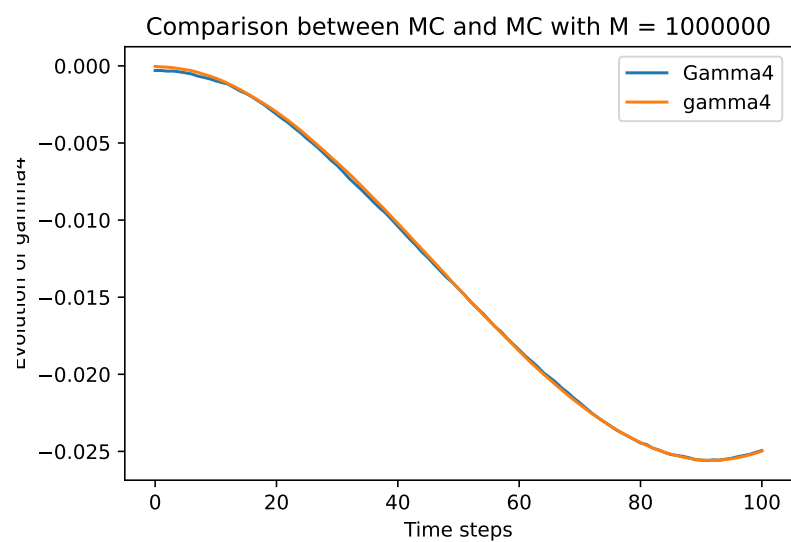
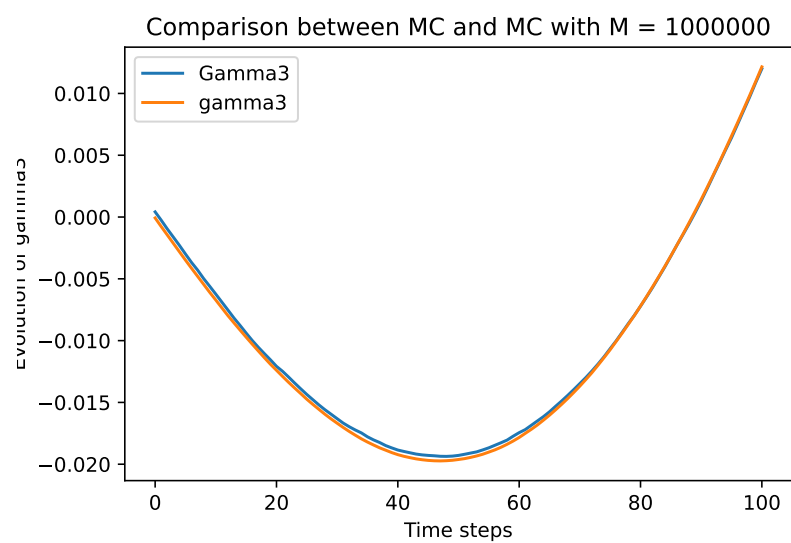
0.1 MC with 10^6 particles

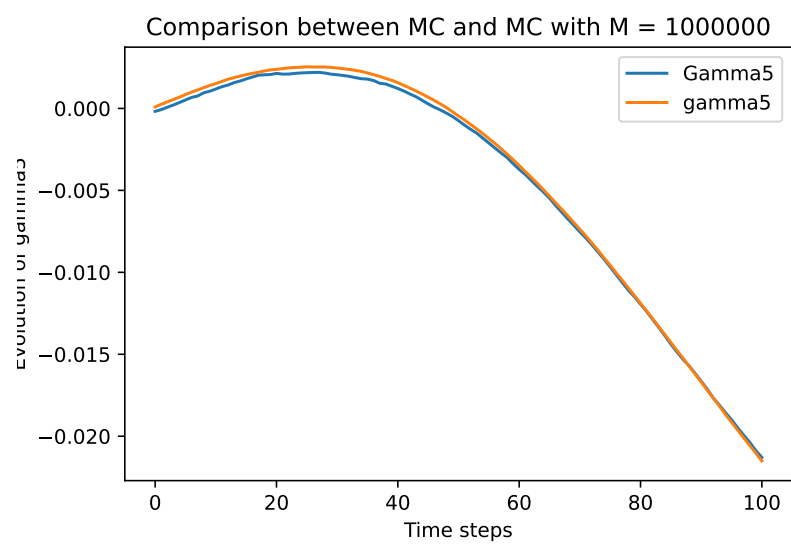
Euler - Monte Carlo execution time: 127.859375

Euler - Monte Carlo error: 0.001480500282752356





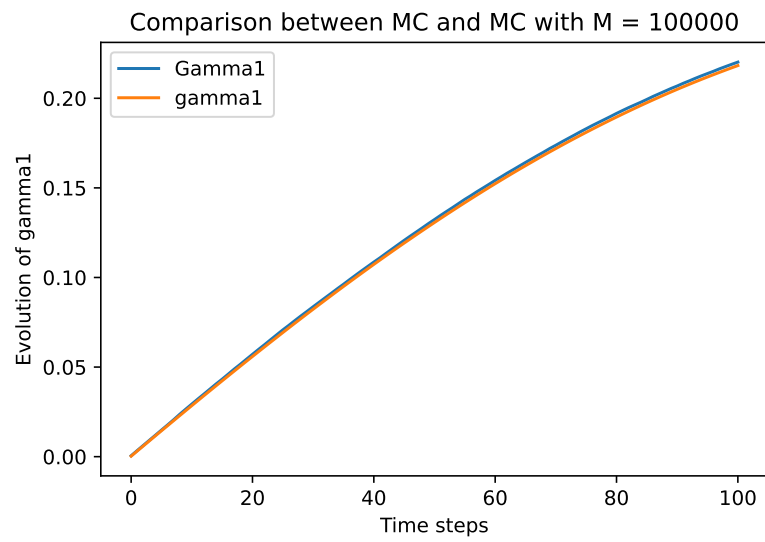
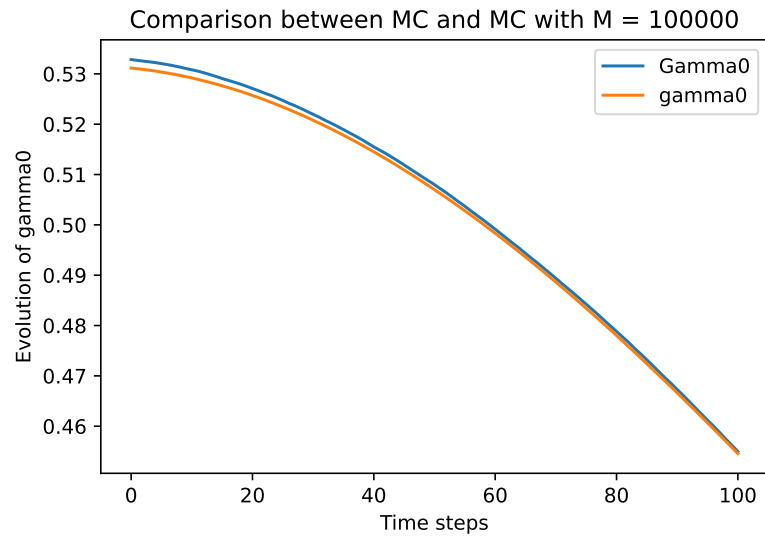


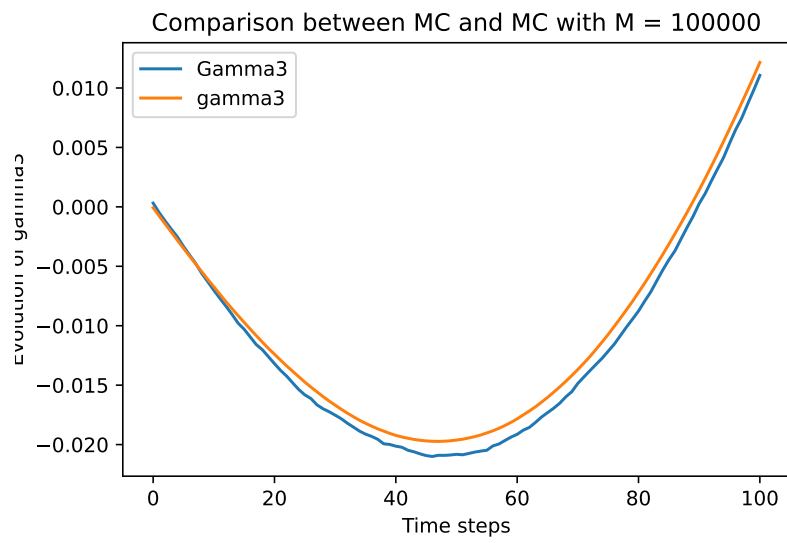
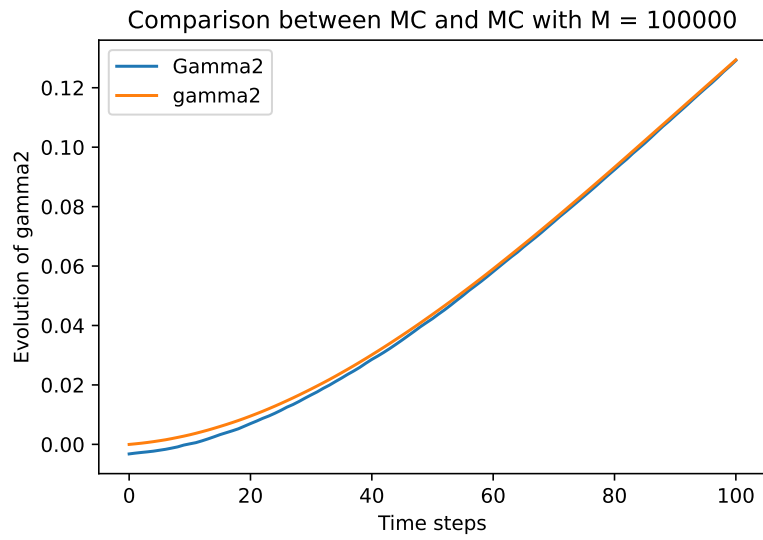


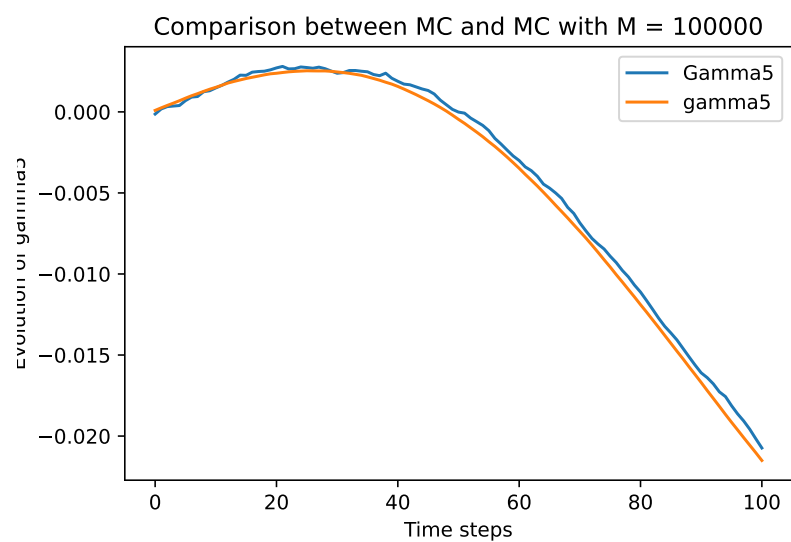
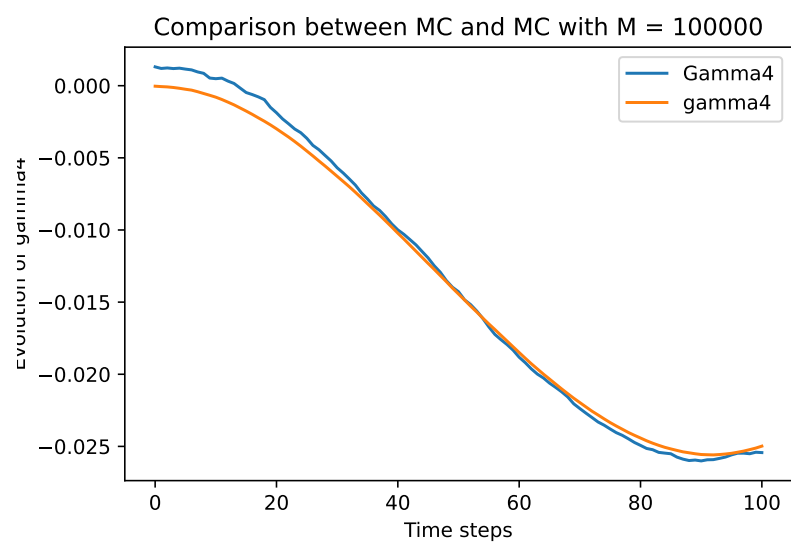
0.2 MC with 10^5 particles

Euler - Monte Carlo execution time: 24.96875

Euler - Monte Carlo error: 0.0056881373542012215



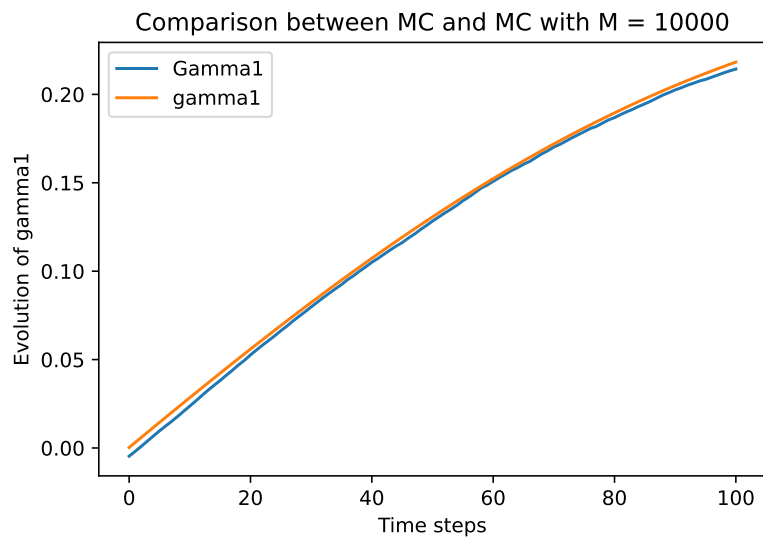
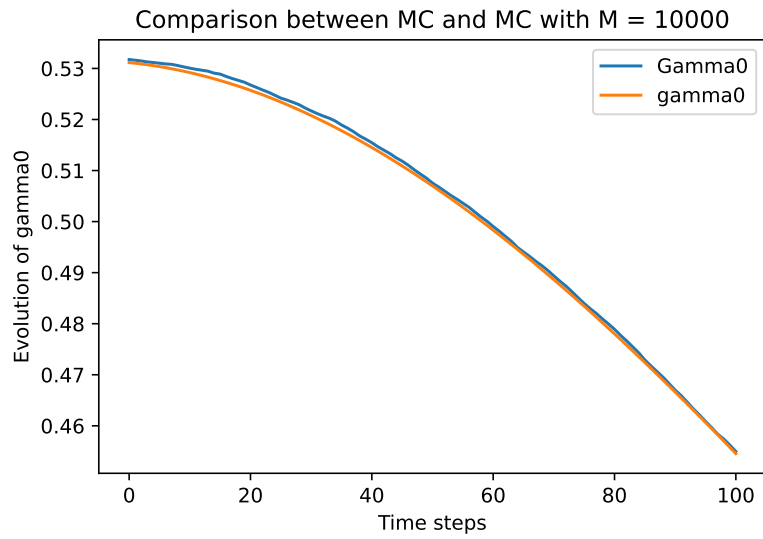


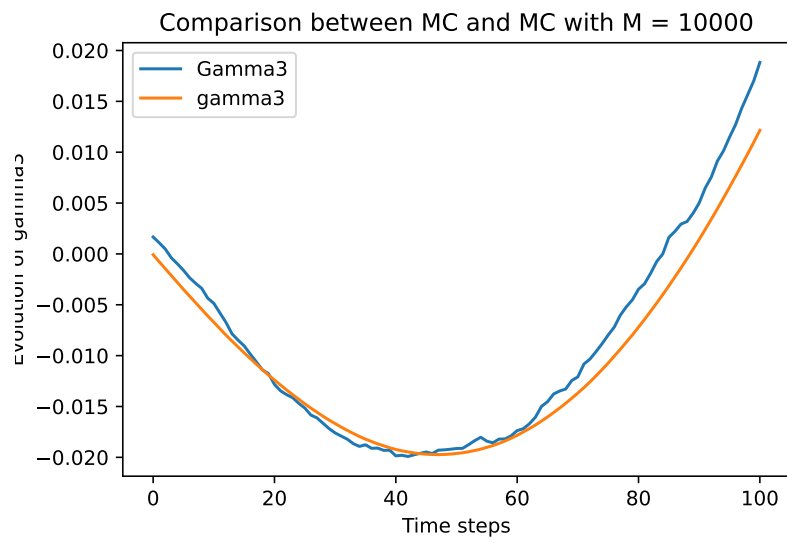
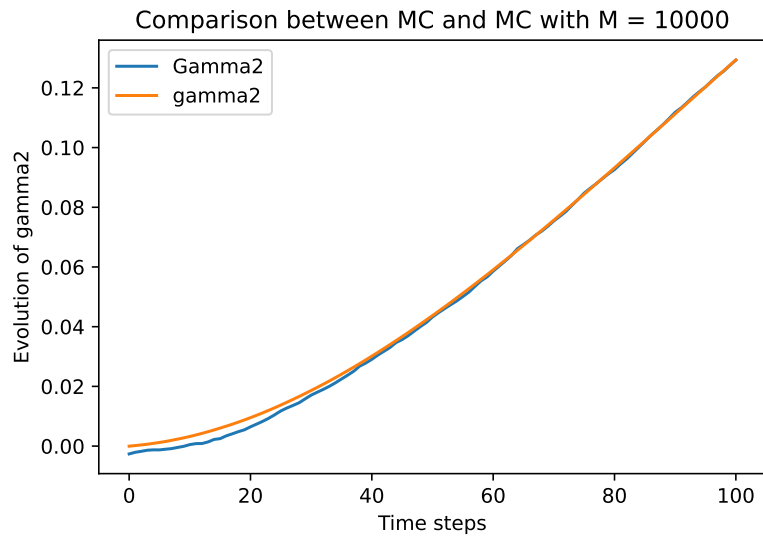


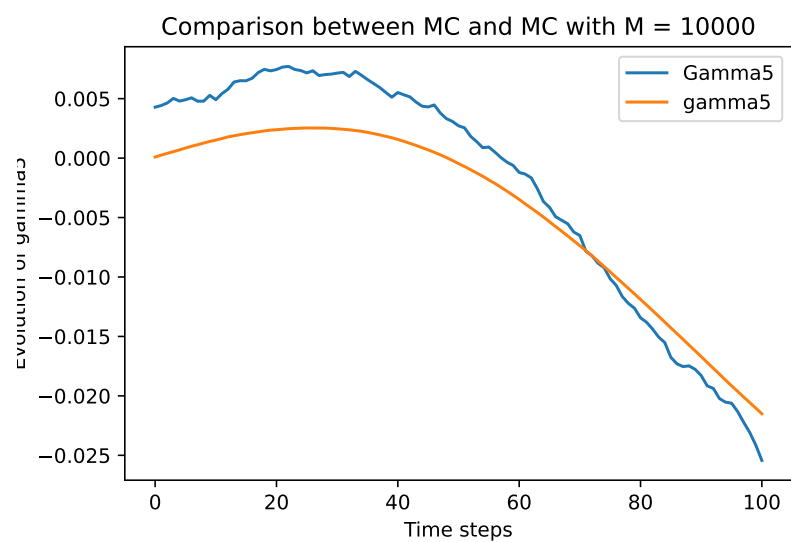
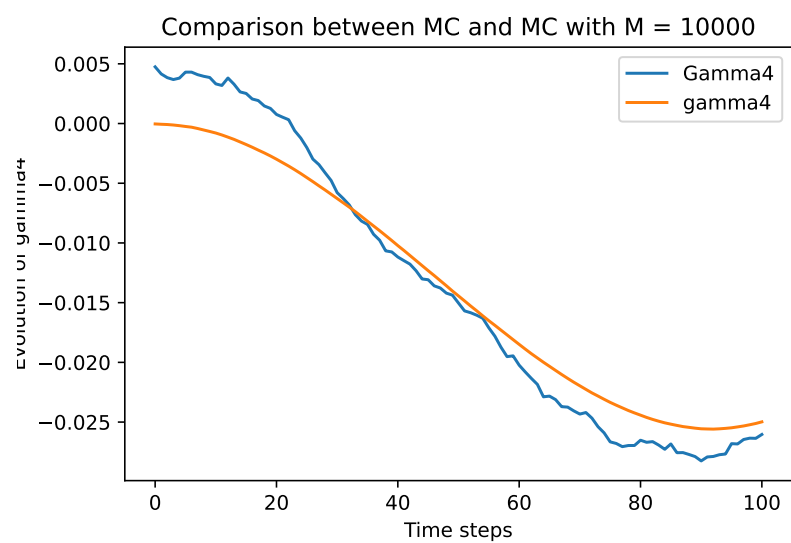
0.3 MC with 10^4 particles

Euler - Monte Carlo execution time: 2.484375

Euler - Monte Carlo error: 0.011473528868816807



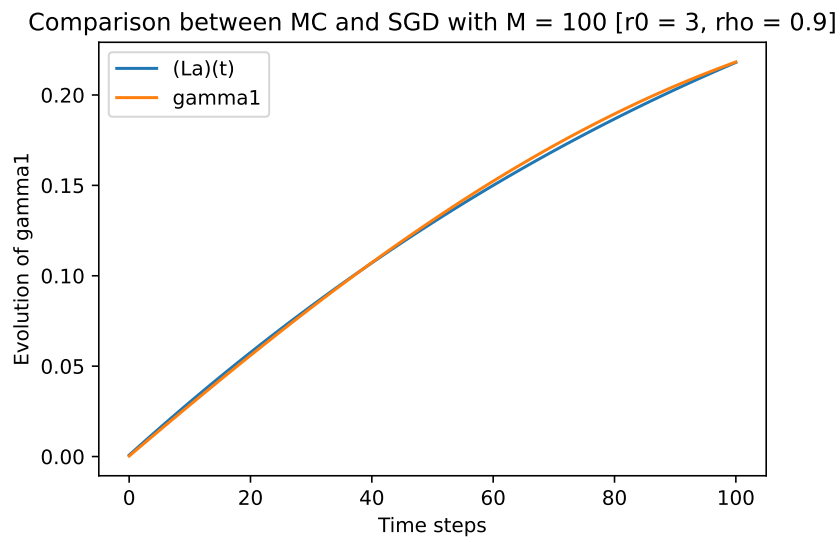
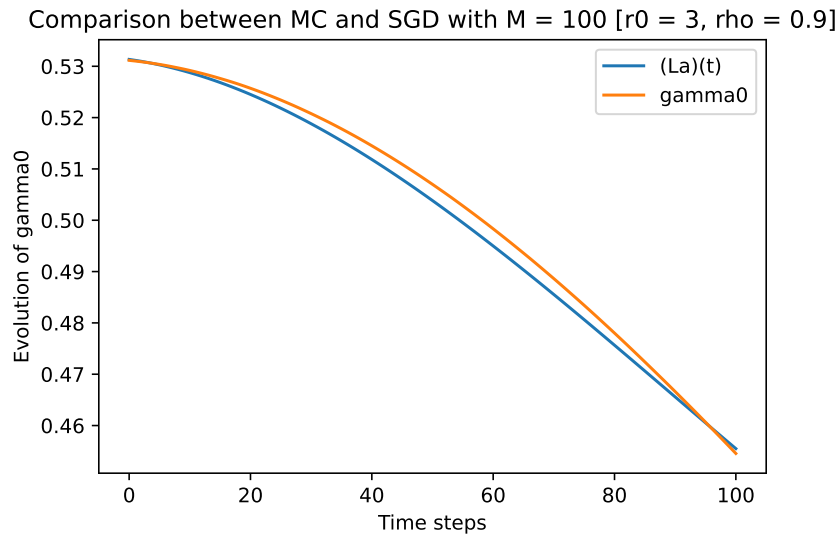




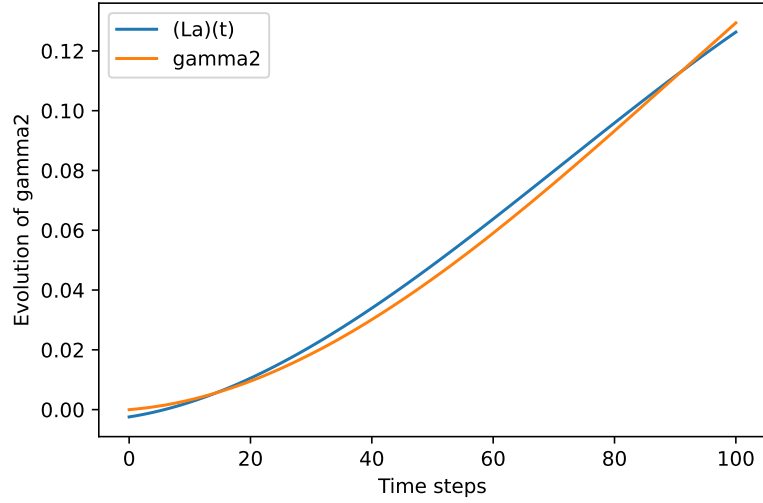
0.4 SGD with $M = 100$

SGD execution time: 13.65625

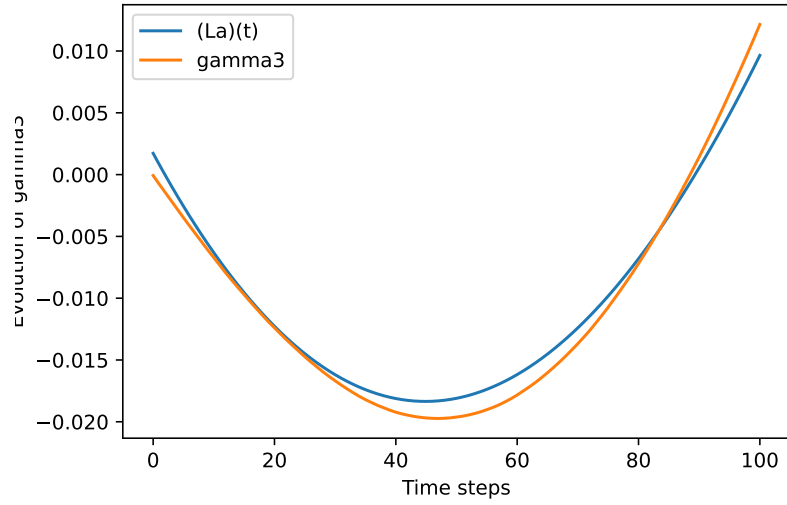
SGD steps: 150

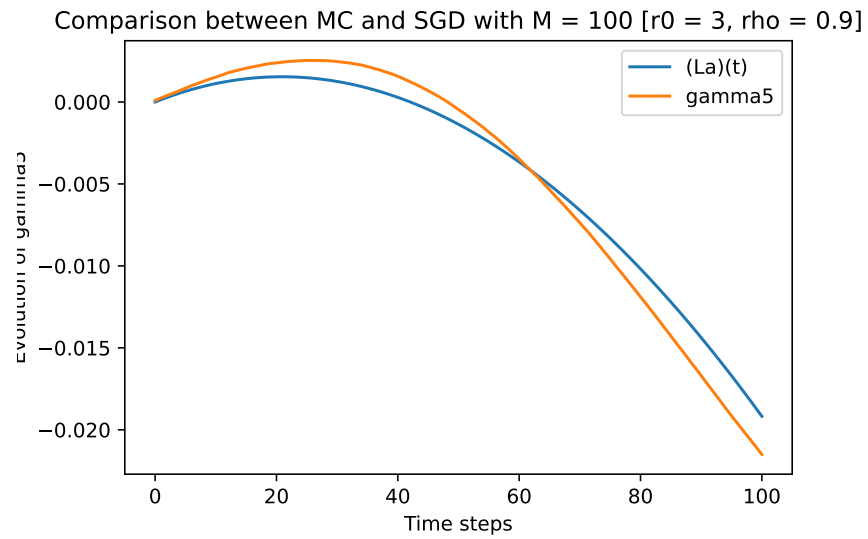
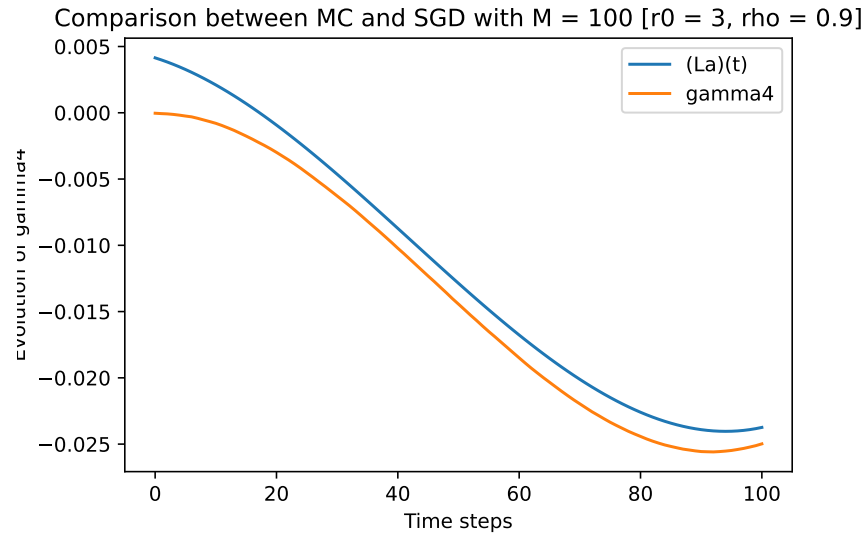


Comparison between MC and SGD with $M = 100$ [$r_0 = 3$, $\rho = 0.9$]



Comparison between MC and SGD with $M = 100$ [$r_0 = 3$, $\rho = 0.9$]



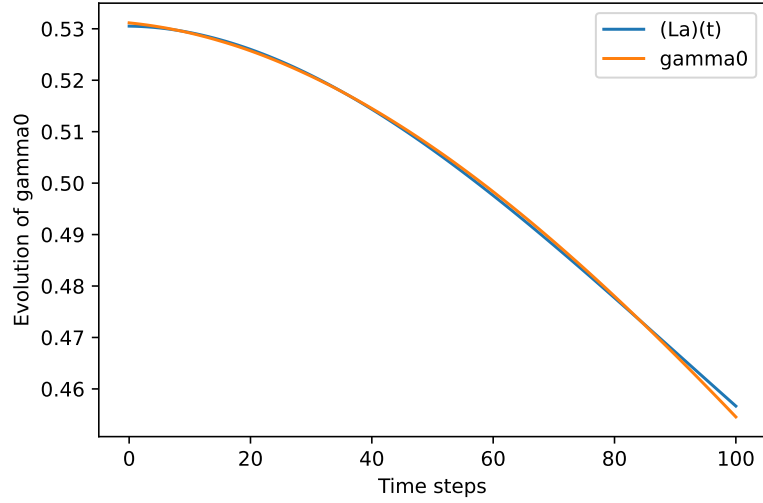


0.5 SGD with $M = 1000$

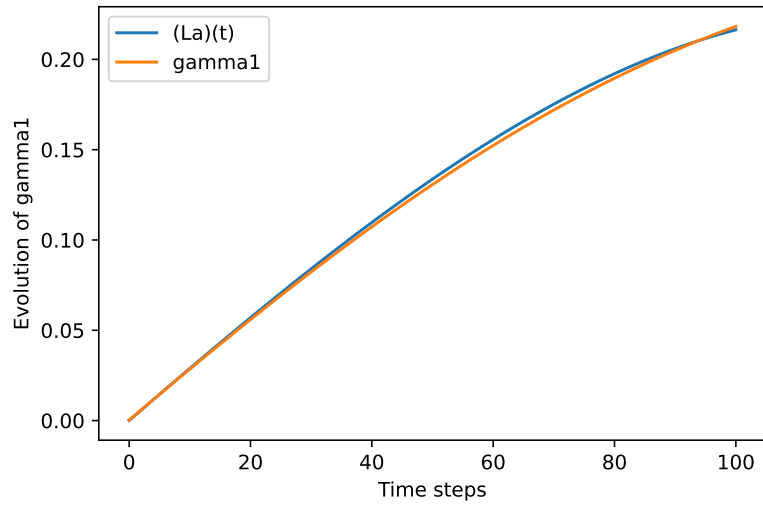
SGD execution time: 42.609375

SGD steps: 60

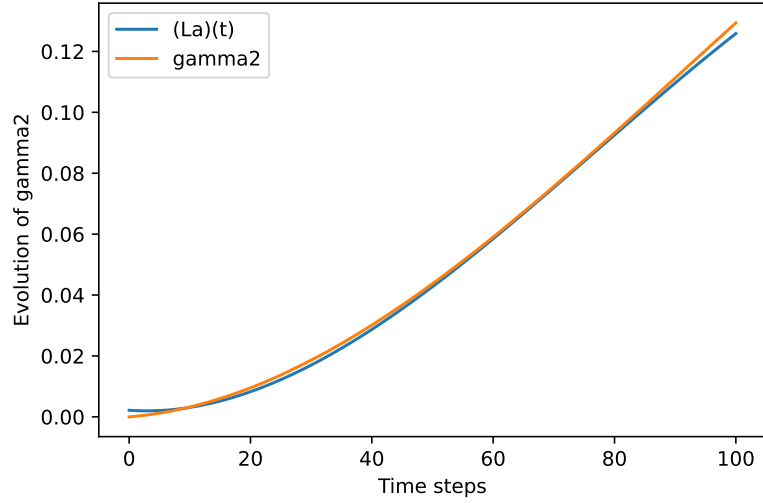
Comparison between MC and SGD with $M = 1000$ [$r_0 = 3$, $\rho = 0.9$]



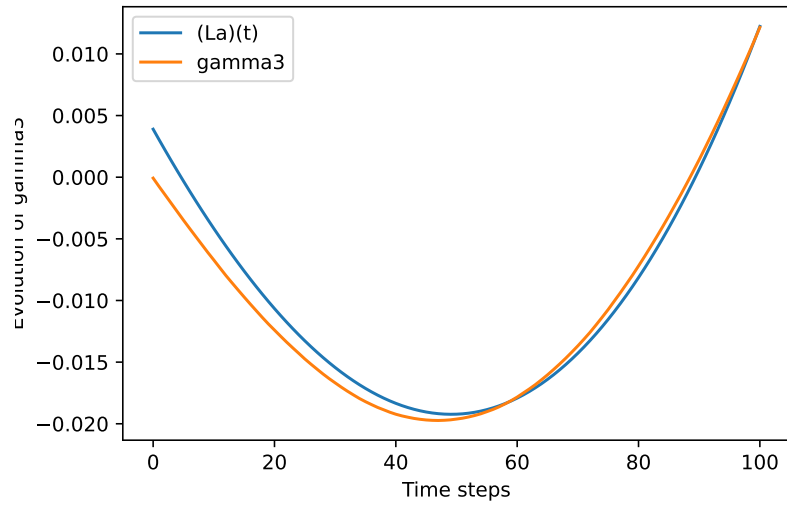
Comparison between MC and SGD with $M = 1000$ [$r_0 = 3$, $\rho = 0.9$]



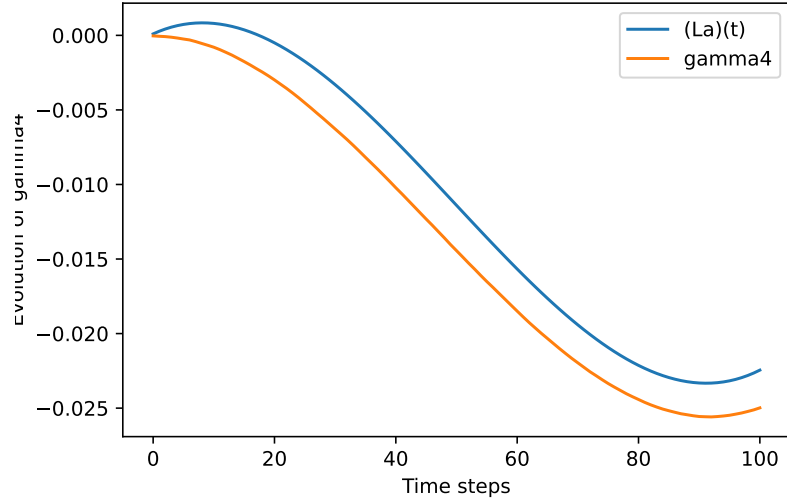
Comparison between MC and SGD with $M = 1000$ [$r_0 = 3$, $\rho = 0.9$]



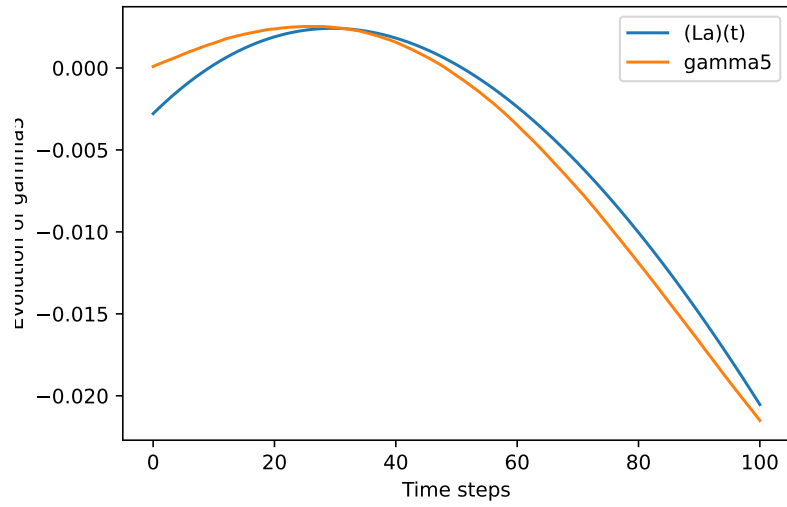
Comparison between MC and SGD with $M = 1000$ [$r_0 = 3$, $\rho = 0.9$]



Comparison between MC and SGD with $M = 1000$ [$r_0 = 3$, $\rho = 0.9$]



Comparison between MC and SGD with $M = 1000$ [$r_0 = 3$, $\rho = 0.9$]



0.6 Tables

	MC 10^6	MC 10^5	MC 10^4	SGD 100	SGD 1000
time	127.86	24.97	2.48	13.66	42.61
error	0.0015	0.0057	0.011	0.001	0.001
steps	/	/	/	150	60

Tabella 1: Comparisons