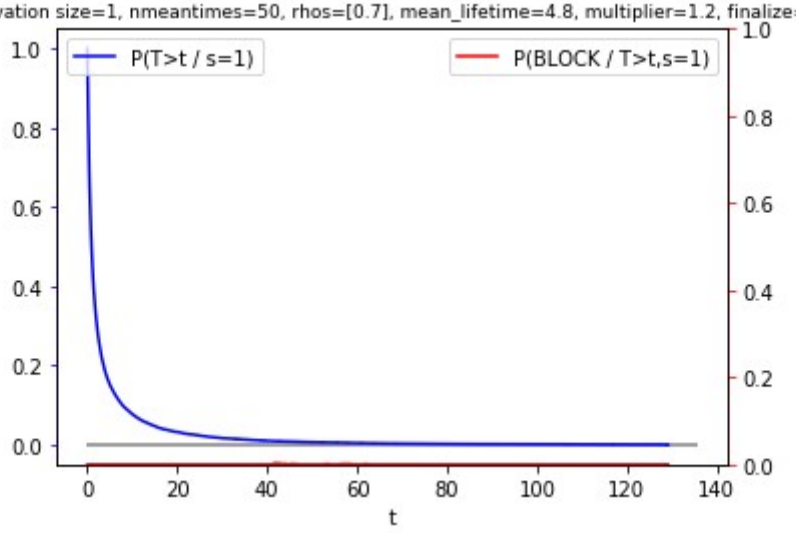
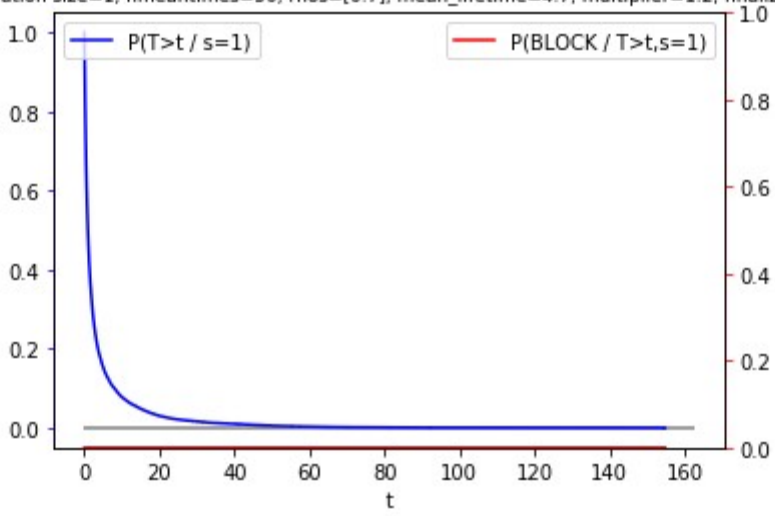
```
Python 3.6.4 |Anaconda custom (64-bit)| (default, Jan 16 2018, 10:22:32) [MSC v.1900 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.

IPython 6.2.1 -- An enhanced Interactive Python.

Restarting kernel...
```

```
In [1]: runfile('E:/Daniel/Projects/PhD-RL-Toulouse/projects/Python/test/test_QB.py', wdir='E:/Daniel/Projects/PhD-RL-Toulouse/projects/Python/test')
Directory:
E:\Daniel\Projects\PhD-RL-Toulouse\projects
has been prepended to the module search path.
Log file '../../RL-002-QueueBlocking/logs/analyze_convergence_20210424_233801.log' has been open for output.
Started at: 2021-04-24 23:38:01
Traceback (most recent call last):

  File "<ipython-input-1-cc767213348a>", line 1, in <module>
    runfile('E:/Daniel/Projects/PhD-RL-Toulouse/projects/Python/test/test_QB.py', wdir='E:/Daniel/Projects/PhD-RL-Toulouse/projects/Python/test')

  File "C:\ProgramData\Anaconda\Anaconda3\lib\site-packages\spyder\utils\site\sitecustomize.py", line 705, in runfile
    execfile(filename, namespace)

  File "C:\ProgramData\Anaconda\Anaconda3\lib\site-packages\spyder\utils\site\sitecustomize.py", line 102, in execfile
    exec(compile(f.read(), filename, 'exec'), namespace)

  File "E:/Daniel/Projects/PhD-RL-Toulouse/projects/Python/test/test_QB.py", line 1831, in <module>
    dict_params_info={'plot': True})

  File "E:/Daniel/Projects/PhD-RL-Toulouse/projects/Python/test/test_QB.py", line 1106, in analyze_convergence_standardized
    proba_blocking_mc, est_mc = estimators.estimate_blocking_mc(env_queue, dict_params_simul)

  File "E:\Daniel\Projects\PhD-RL-Toulouse\projects\Python\lib\estimators.py", line 3270, in estimate_blocking_mc
    proba_blocking_mc, _, _ = est_mc.simulate(EventType.ACTIVATION)

  File "E:\Daniel\Projects\PhD-RL-Toulouse\projects\Python\lib\estimators.py", line 685, in simulate
    time_start, time1, time2, time3 = self.run_simulation()

  File "E:\Daniel\Projects\PhD-RL-Toulouse\projects\Python\lib\estimators.py", line 800, in run_simulation
    self.compute_counts()

  File "E:\Daniel\Projects\PhD-RL-Toulouse\projects\Python\lib\estimators.py", line 2104, in compute_counts
    .format(len(self.counts_alive), len(self.sk))

AssertionError: The length of counts_alive (204212) is the same as the length of self.sk (204211)
```

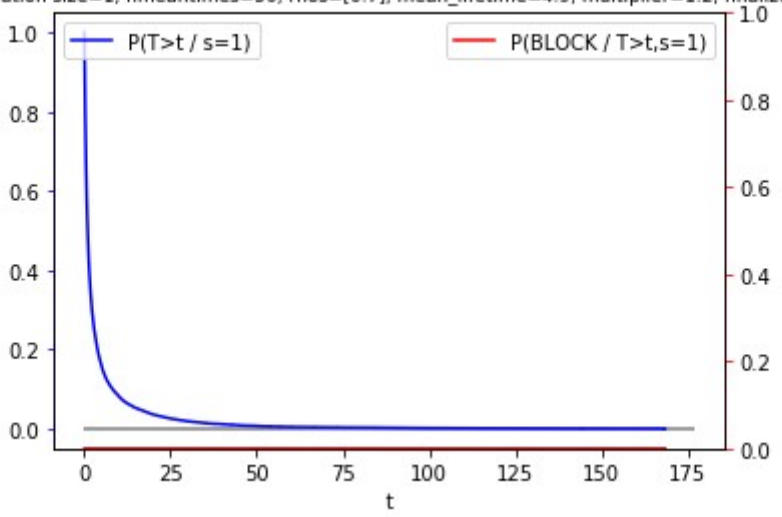
K=30, N=800, activation size=1, nmeantimes=50, rhos=[0.7], mean_lifetime=4.8, multiplier=1.2, finalize=ABS, seed=1313



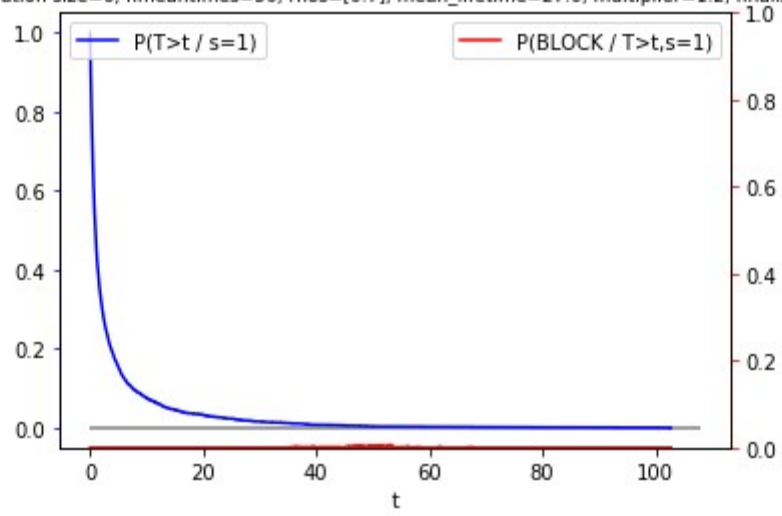
K=30, N=800, activation size=1, nmeantimes=50, rhos=[0.7], mean_lifetime=4.7, multiplier=1.2, finalize=ABS, seed=1313



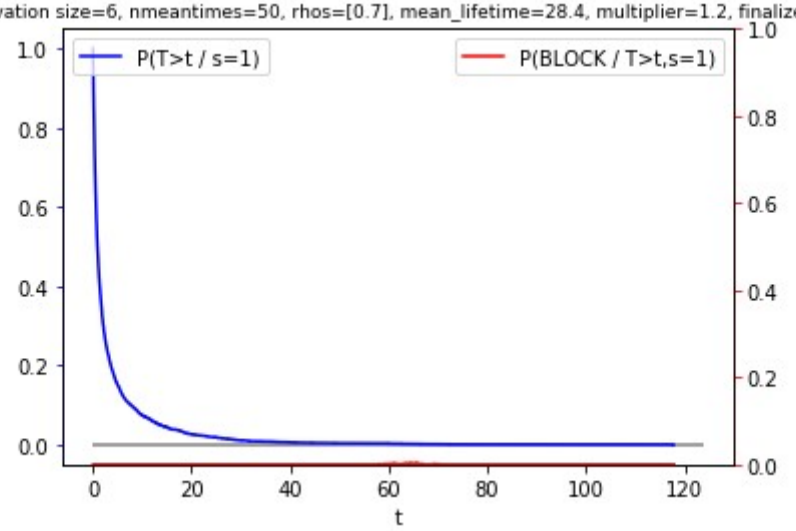
K=30, N=800, activation size=1, nmeantimes=50, rhos=[0.7], mean_lifetime=4.9, multiplier=1.2, finalize=ABS, seed=1313



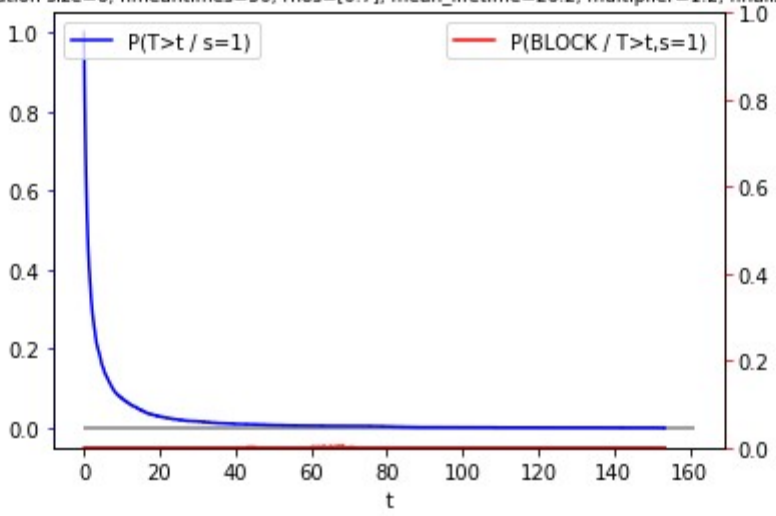
K=30, N=800, activation size=6, nmeantimes=50, rhos=[0.7], mean_lifetime=27.0, multiplier=1.2, finalize=ABS, seed=1313



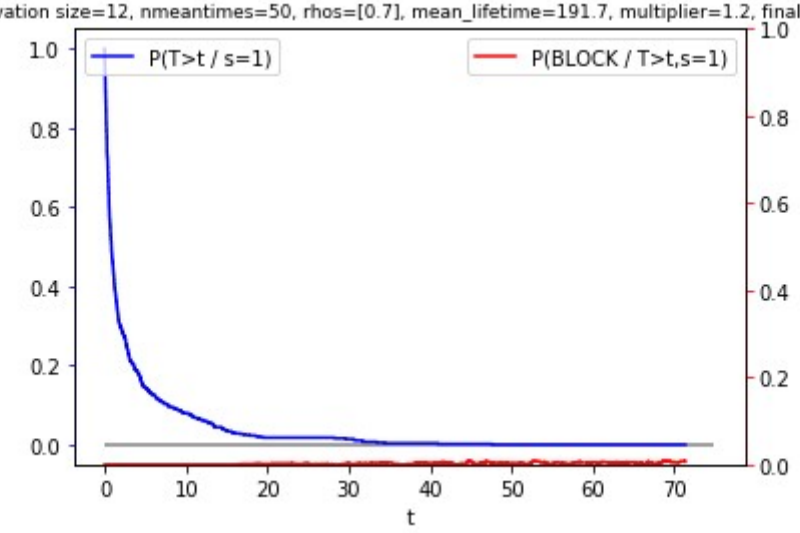
K=30, N=800, activation size=6, nmeantimes=50, rhos=[0.7], mean_lifetime=28.4, multiplier=1.2, finalize=ABS, seed=1313



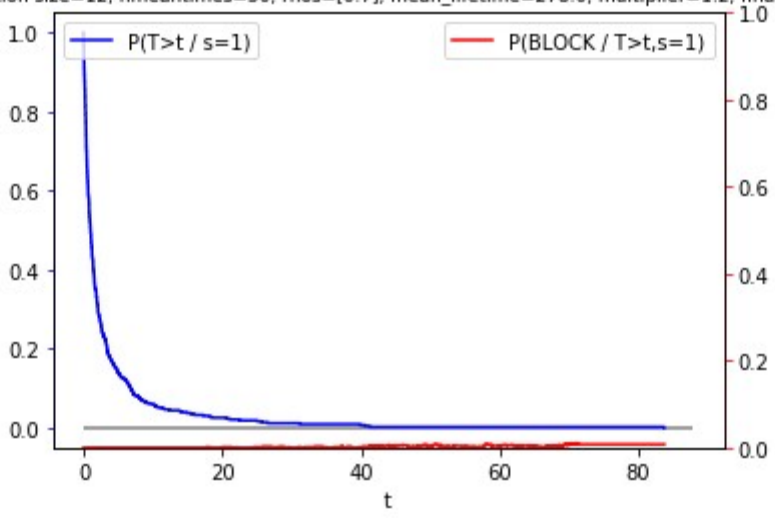
K=30, N=800, activation size=6, nmeantimes=50, rhos=[0.7], mean_lifetime=26.2, multiplier=1.2, finalize=ABS, seed=1313



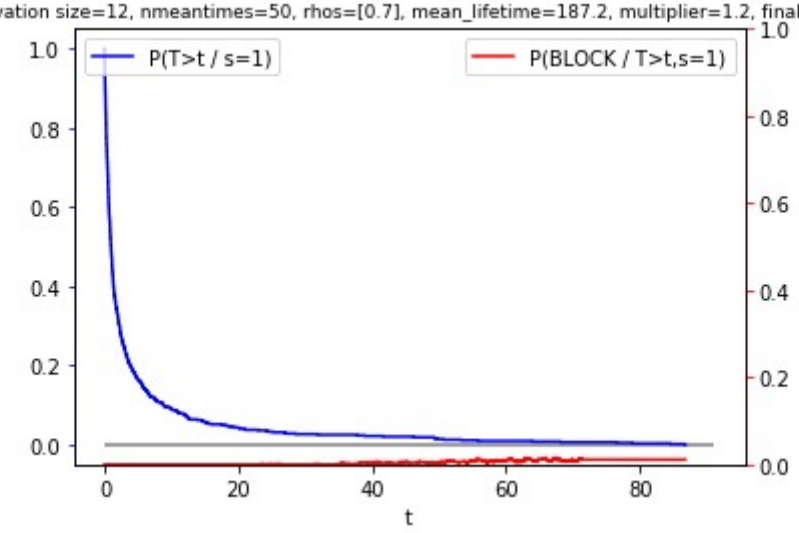
K=30, N=800, activation size=12, nmeantimes=50, rhos=[0.7], mean_lifetime=191.7, multiplier=1.2, finalize=ABS, seed=1313



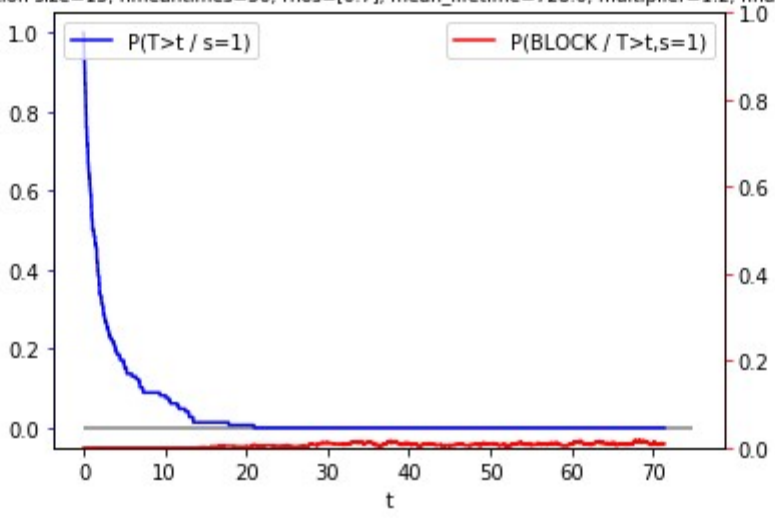
K=30, N=800, activation size=12, nmeantimes=50, rhos=[0.7], mean_lifetime=278.0, multiplier=1.2, finalize=ABS, seed=1313



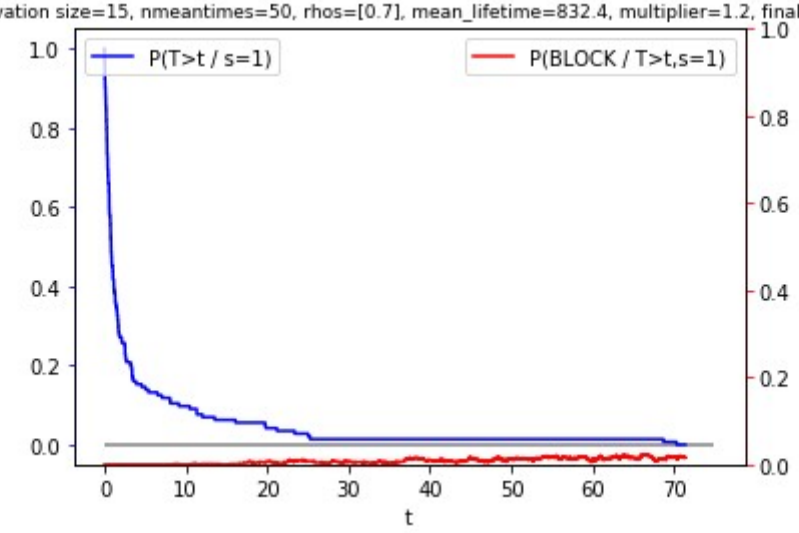
K=30, N=800, activation size=12, nmeantimes=50, rhos=[0.7], mean_lifetime=187.2, multiplier=1.2, finalize=ABS, seed=1313



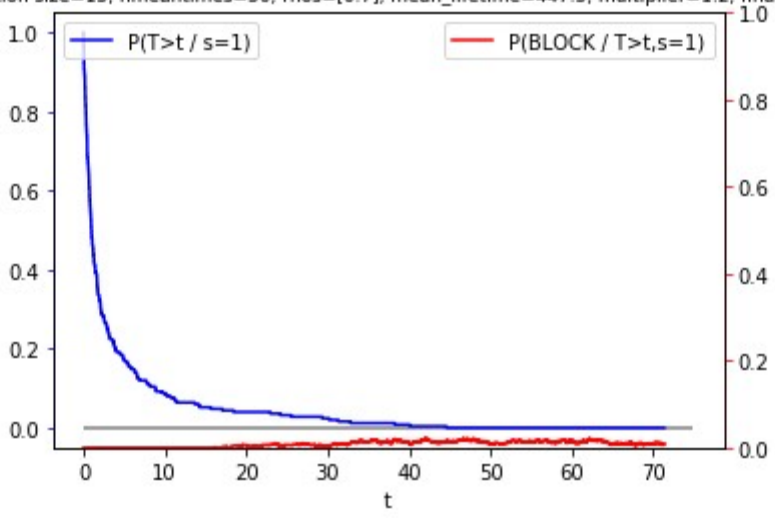
K=30, N=800, activation size=15, nmeantimes=50, rhos=[0.7], mean_lifetime=728.0, multiplier=1.2, finalize=ABS, seed=1313



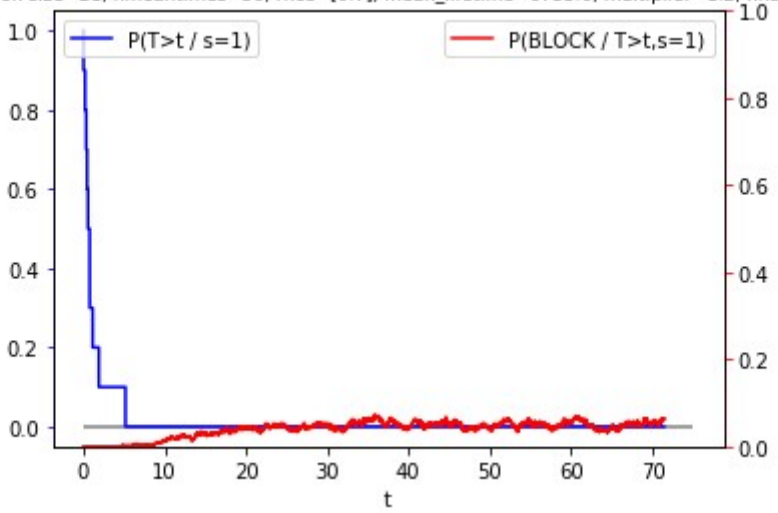
K=30, N=800, activation size=15, nmeantimes=50, rhos=[0.7], mean_lifetime=832.4, multiplier=1.2, finalize=ABS, seed=1313



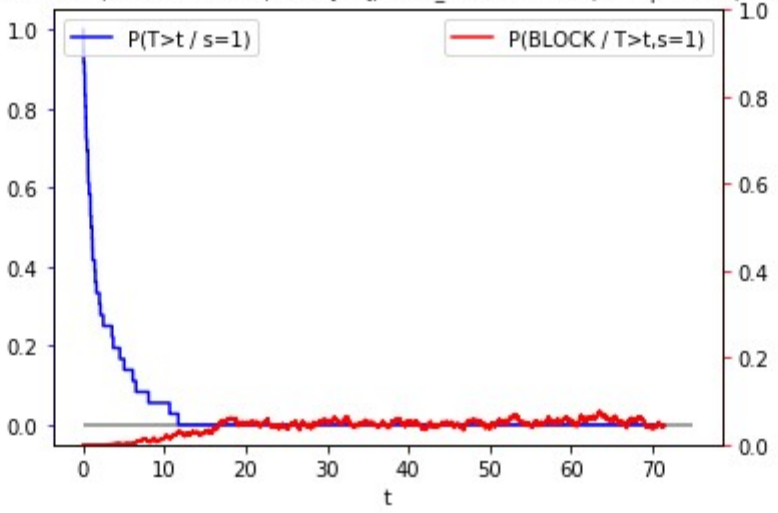
K=30, N=800, activation size=15, nmeantimes=50, rhos=[0.7], mean_lifetime=447.5, multiplier=1.2, finalize=ABS, seed=1313

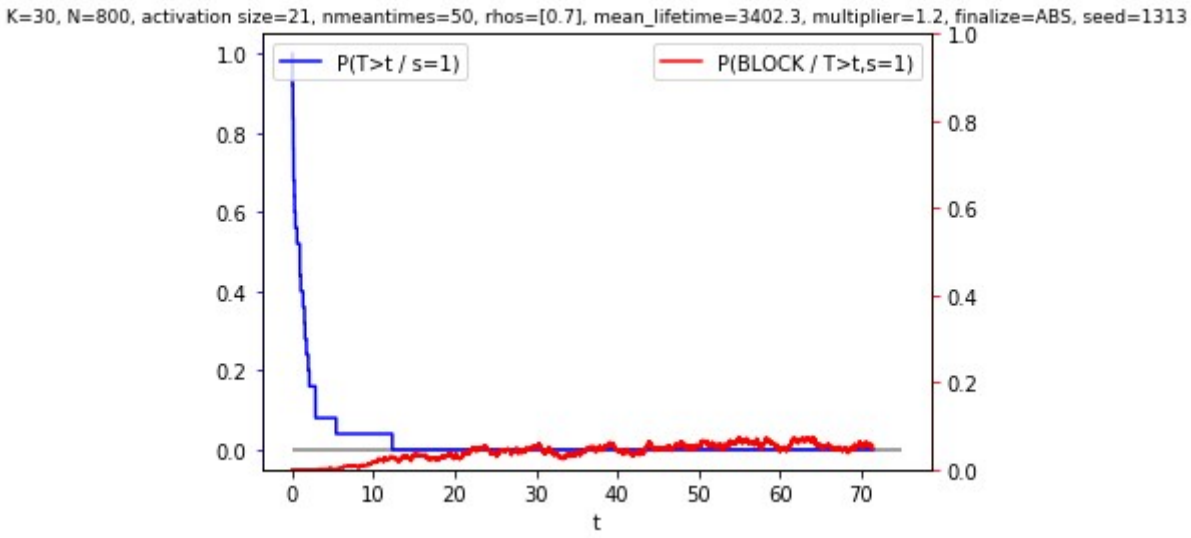


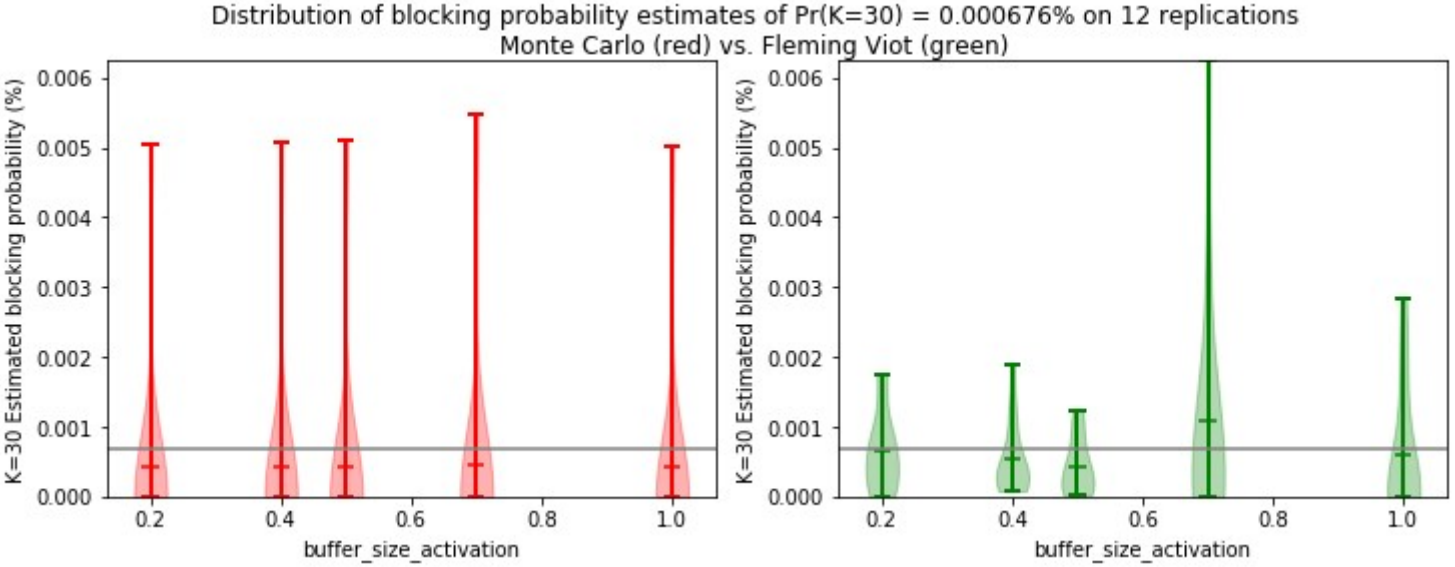
K=30, N=800, activation size=21, nmeantimes=50, rhos=[0.7], mean_lifetime=6735.0, multiplier=1.2, finalize=ABS, seed=1313

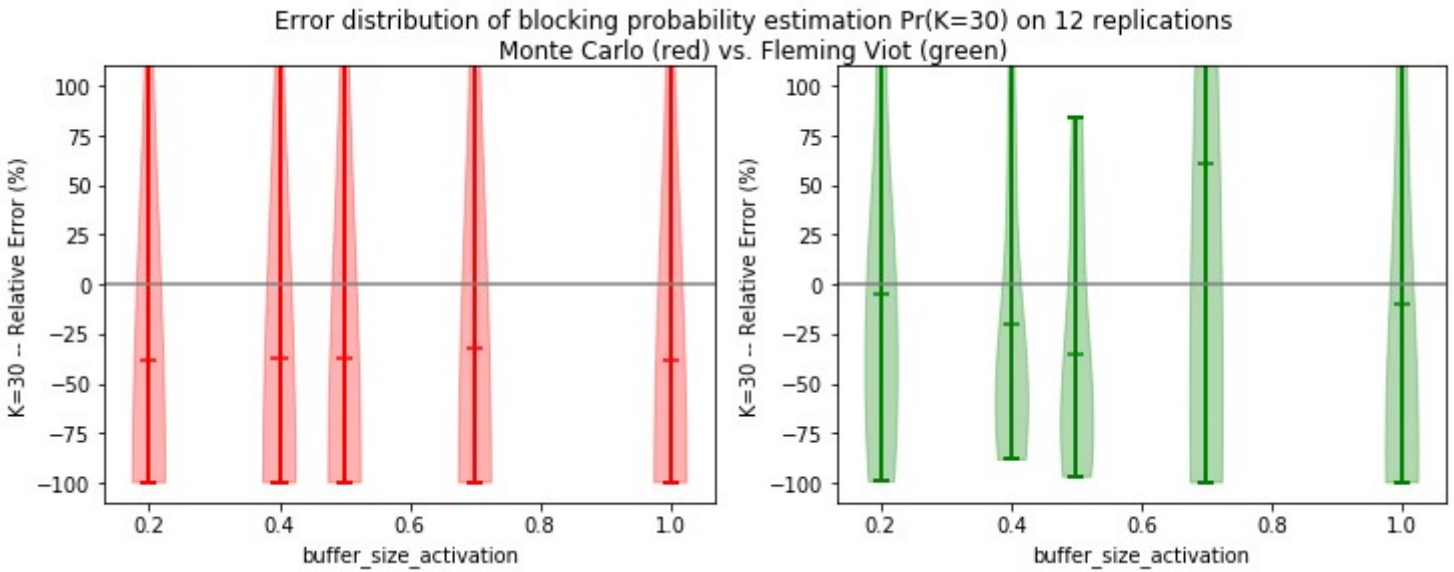


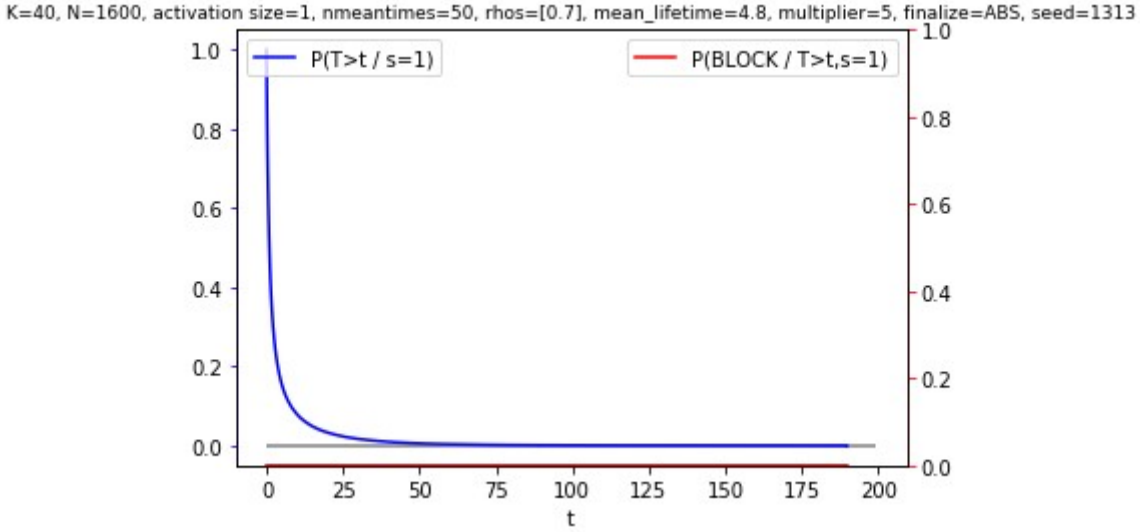
K=30, N=800, activation size=21, nmeantimes=50, rhos=[0.7], mean_lifetime=2092.9, multiplier=1.2, finalize=ABS, seed=1313

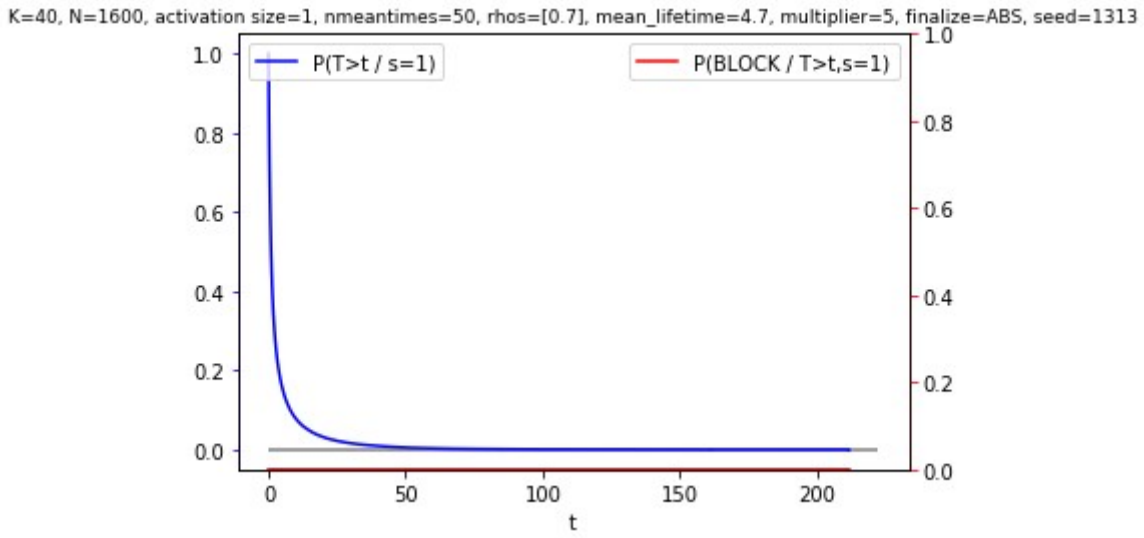



K=30, N=800, activation size=21, nmeantimes=50, rhos=[0.7], mean_lifetime=3402.3, multiplier=1.2, finalize=ABS, seed=1313
P(T>t / s=1)
P(BLOCK / T>t,s=1)
t


Distribution of blocking probability estimates of Pr(K=30) = 0.000676% on 12 replications
Monte Carlo (red) vs. Fleming Viot (green)
K=30 Estimated blocking probability (%)
buffer_size_activation
K=30 Estimated blocking probability (%)
buffer_size_activation


Error distribution of blocking probability estimation Pr(K=30) on 12 replications
Monte Carlo (red) vs. Fleming Viot (green)
K=30 -- Relative Error (%)
buffer_size_activation
K=30 -- Relative Error (%)
buffer_size_activation


K=40, N=1600, activation size=1, nmeantimes=50, rhos=[0.7], mean_lifetime=4.8, multiplier=5, finalize=ABS, seed=1313
P(T>t / s=1)
P(BLOCK / T>t,s=1)
t


K=40, N=1600, activation size=1, nmeantimes=50, rhos=[0.7], mean_lifetime=4.7, multiplier=5, finalize=ABS, seed=1313
P(T>t / s=1)
P(BLOCK / T>t,s=1)
1.0
0.8
0.6
0.4
0.2
0.0
0
50
100
150
200
t

In [2]:

In [2]: