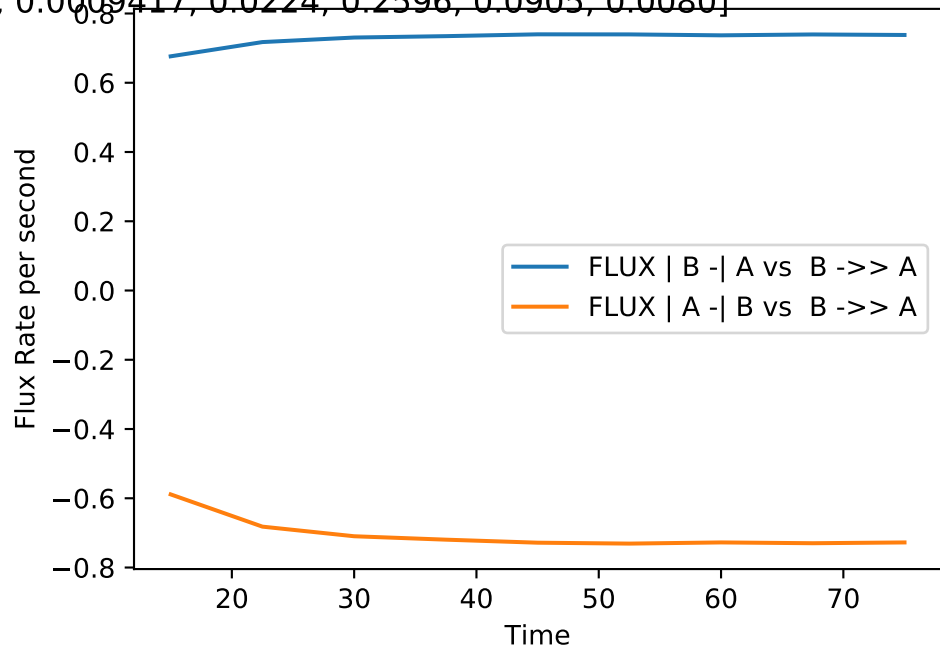
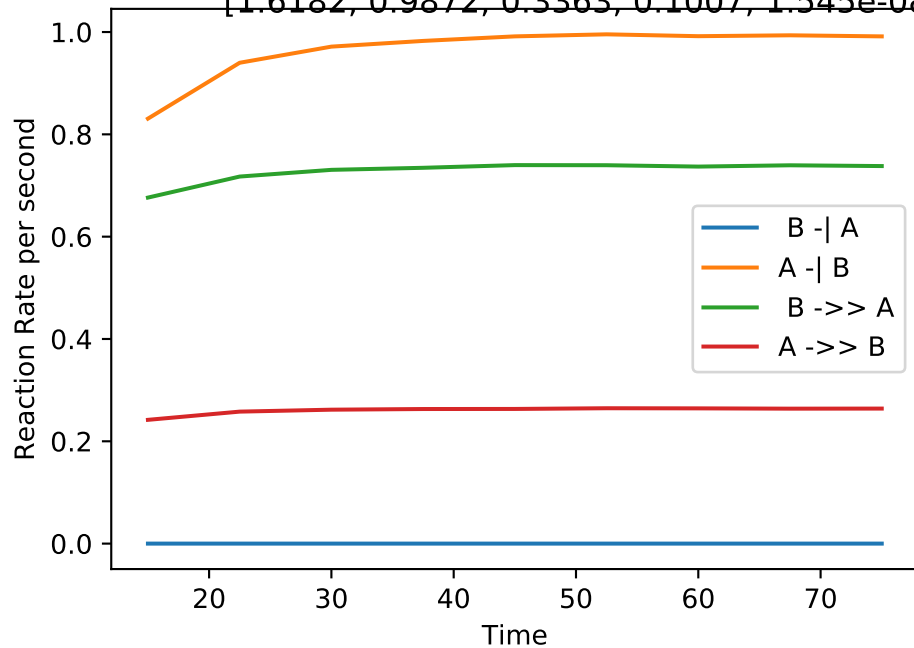


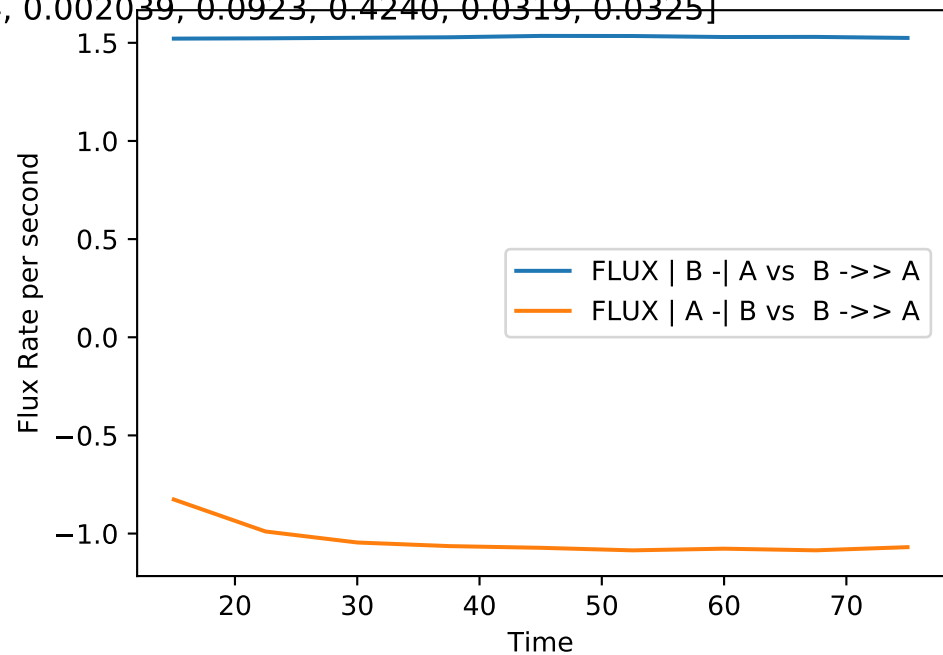
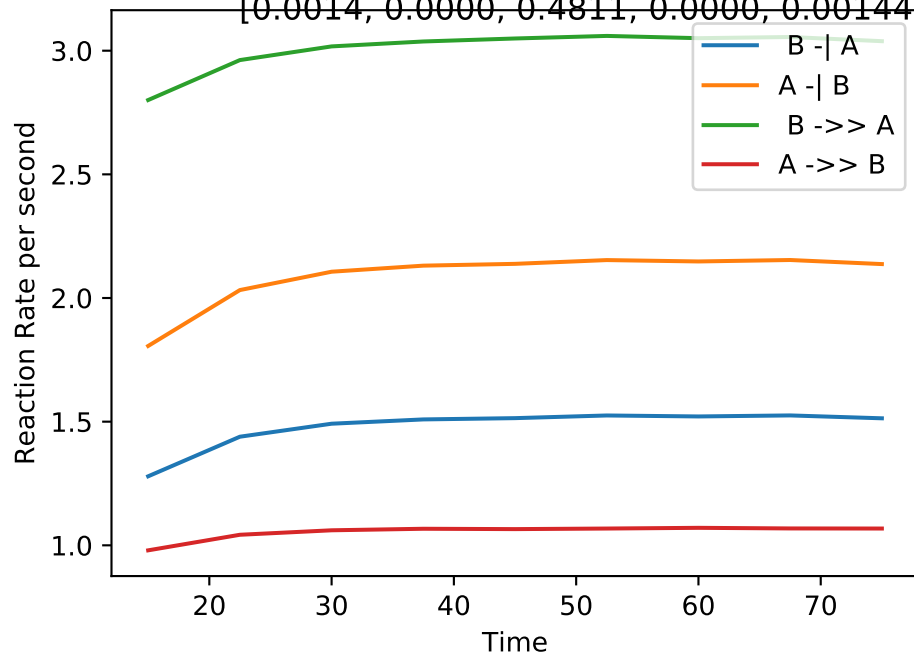
Double_up | MB-LLS Double_up(#0):

[1.6182, 0.9872, 0.3363, 0.1007, 1.545e-08, 0.0009417, 0.0224, 0.2596, 0.0905, 0.0080]



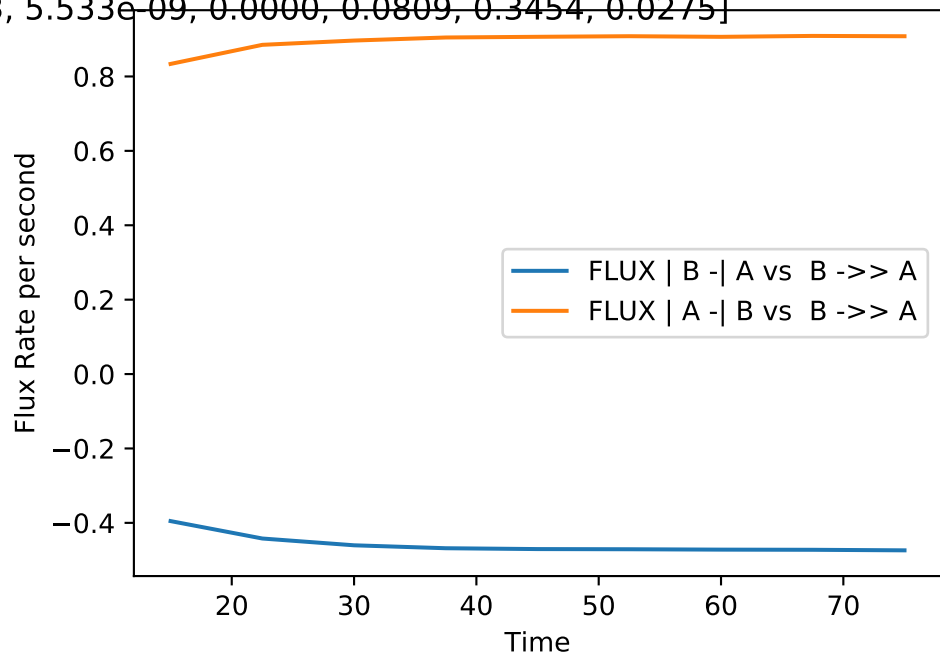
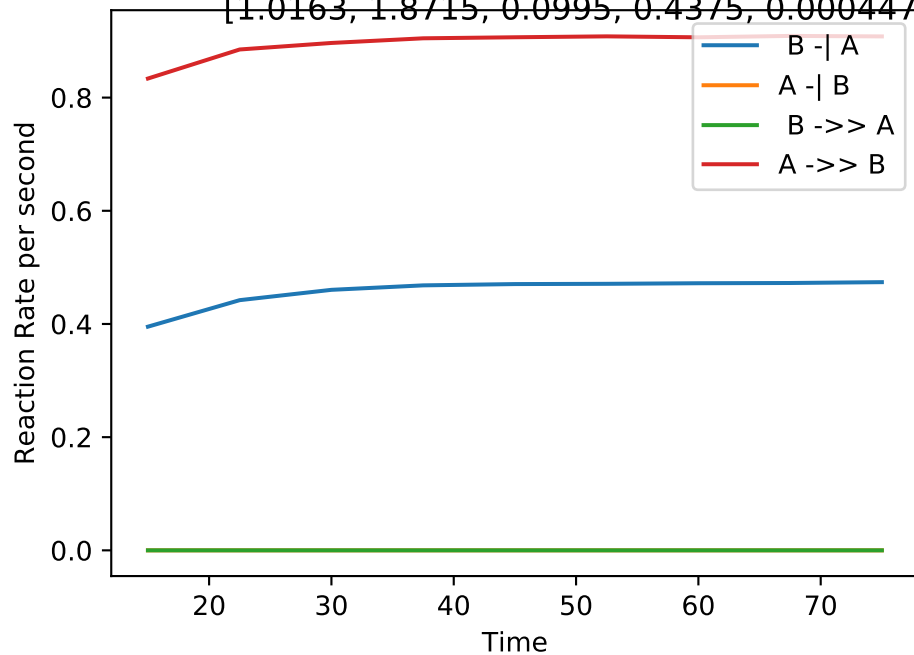
Double_up | MB-LLS Double_up(#1):

[0.0014, 0.0000, 0.4811, 0.0000, 0.001444, 0.002039, 0.0923, 0.4240, 0.0319, 0.0325]



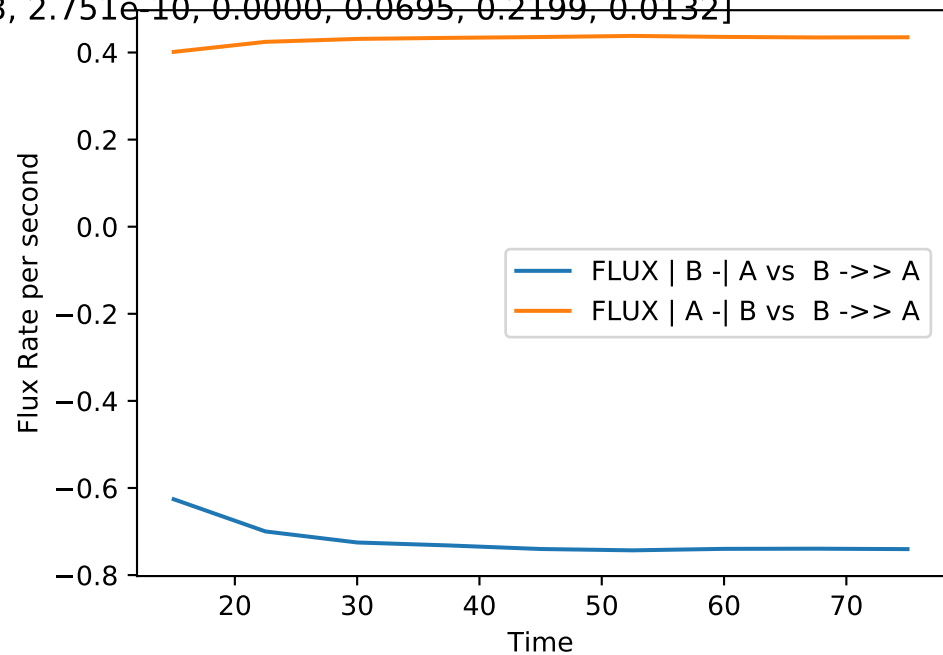
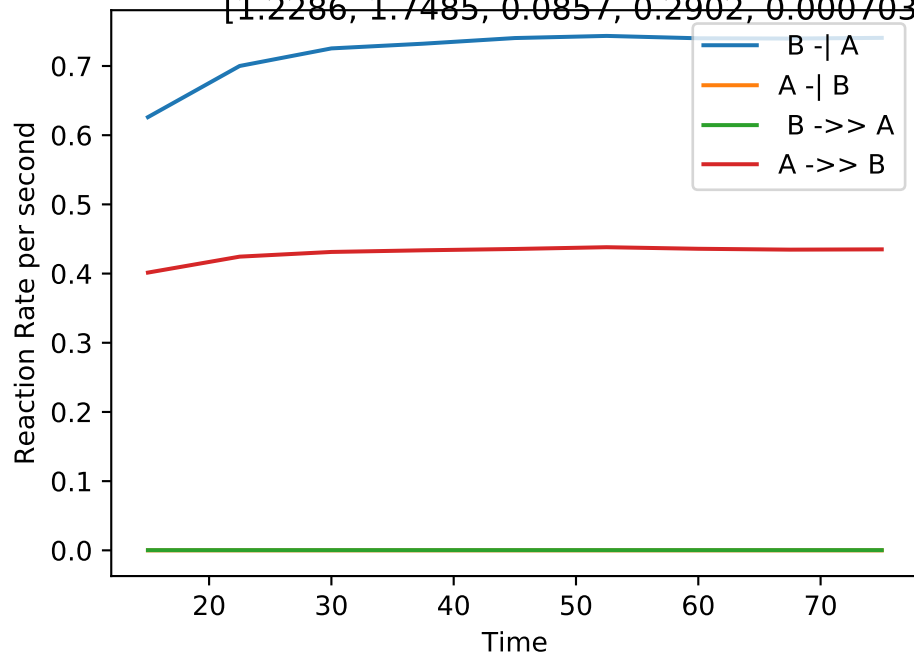
Double_up | MB-LLS Double_up(#2):

[1.0163, 1.8715, 0.0995, 0.4375, 0.0004473, 5.533e-09, 0.0000, 0.0809, 0.3454, 0.0275]



Double_up | MB-LLS Double_up(#3):

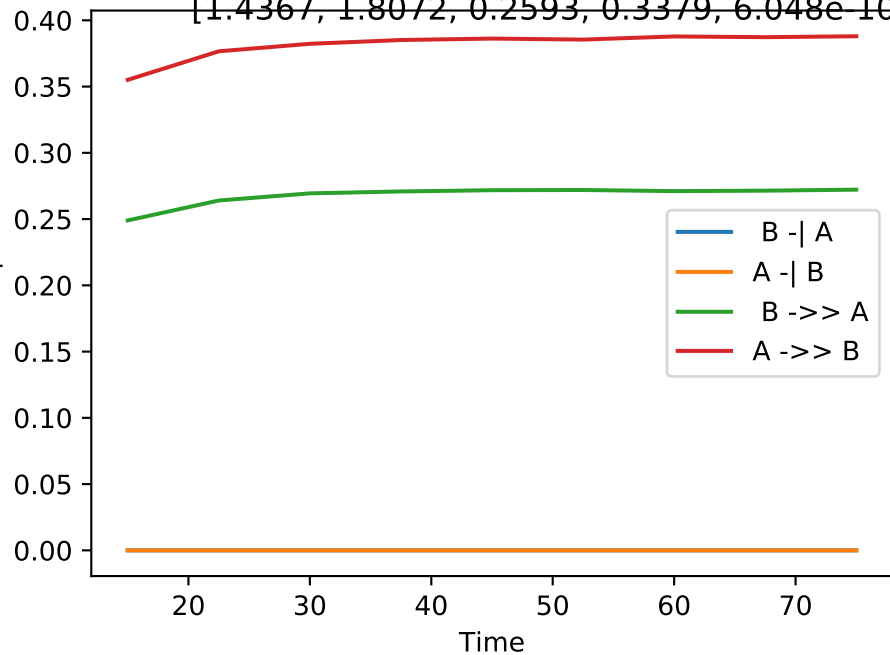
[1.2286, 1.7485, 0.0857, 0.2902, 0.0007033, 2.751e-10, 0.0000, 0.0695, 0.2199, 0.0132]



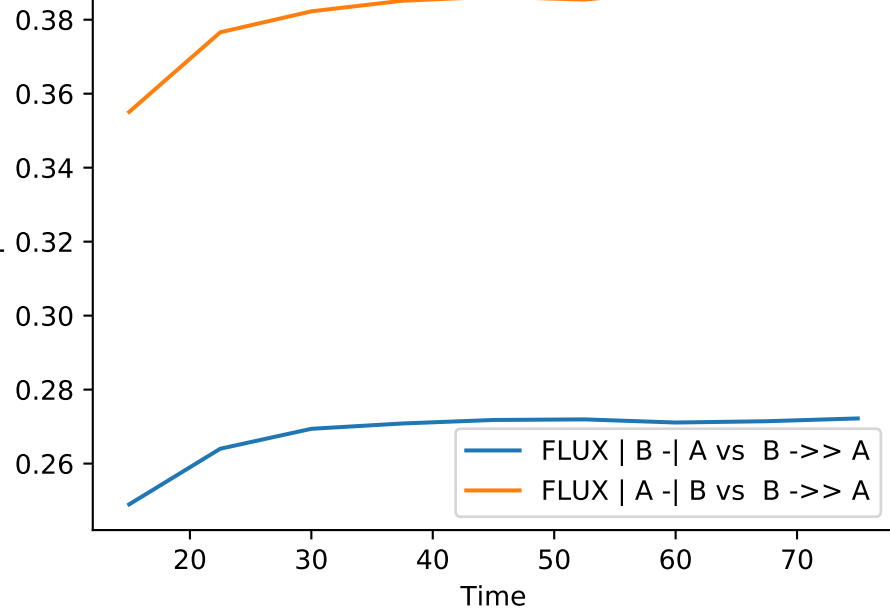
Double_up | MB-LLS Double_up(#4):

[1.4367, 1.8072, 0.2593, 0.3379, 6.048e-10, 1.402e-09, 0.0082, 0.2026, 0.2648, 0.0117]

Reaction Rate per second

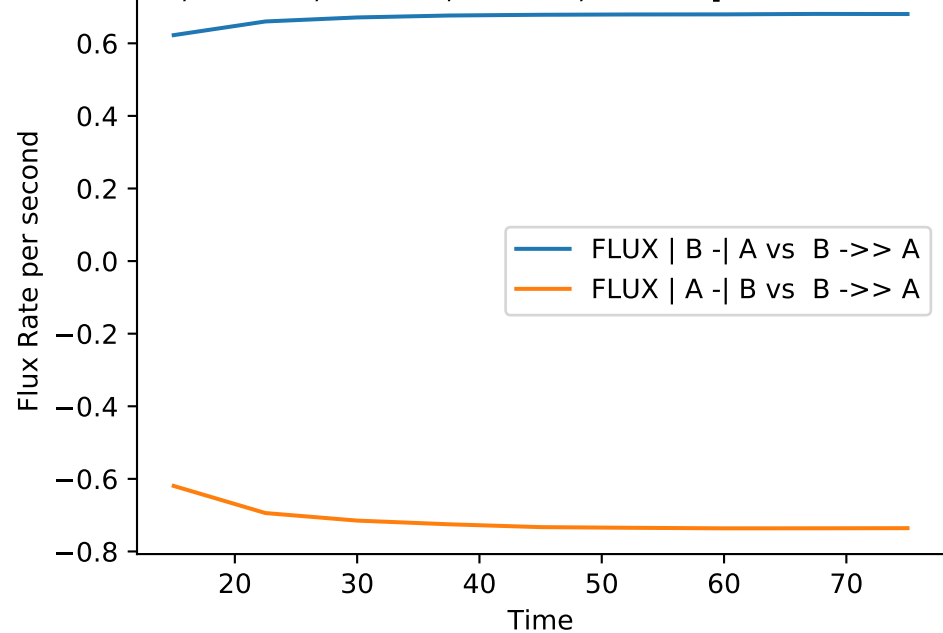
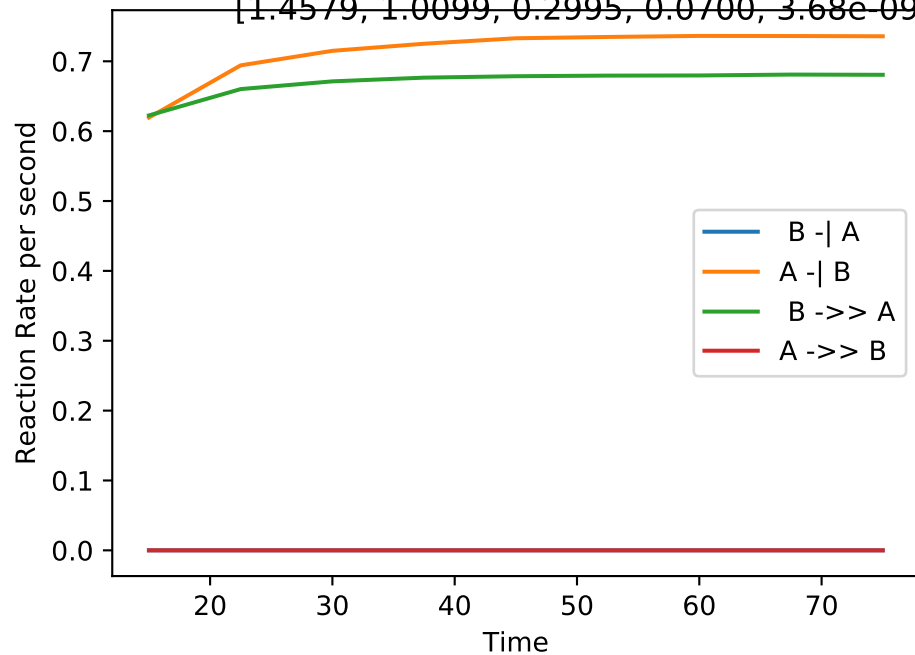


Flux Rate per second



Double_up | MB-LLS Double_up(#5):

[1.4579, 1.0099, 0.2995, 0.0700, 3.68e-09, 0.0006962, 0.0206, 0.2302, 0.0602, 0.0000]



Double_up | MB-LLS Double_up(#6):

[1.3799, 1.6796, 0.3128, 0.1796, 7.028e-09, 0.0004318, 0.0191, 0.2463, 0.1393, 0.0000]

Reaction Rate per second

0.6
0.5
0.4
0.3
0.2
0.1
0.0

20

30

40

50

60

70

Time



Flux Rate per second

0.6
0.4
0.2
0.0
-0.2
-0.4

20

30

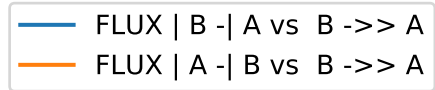
40

50

60

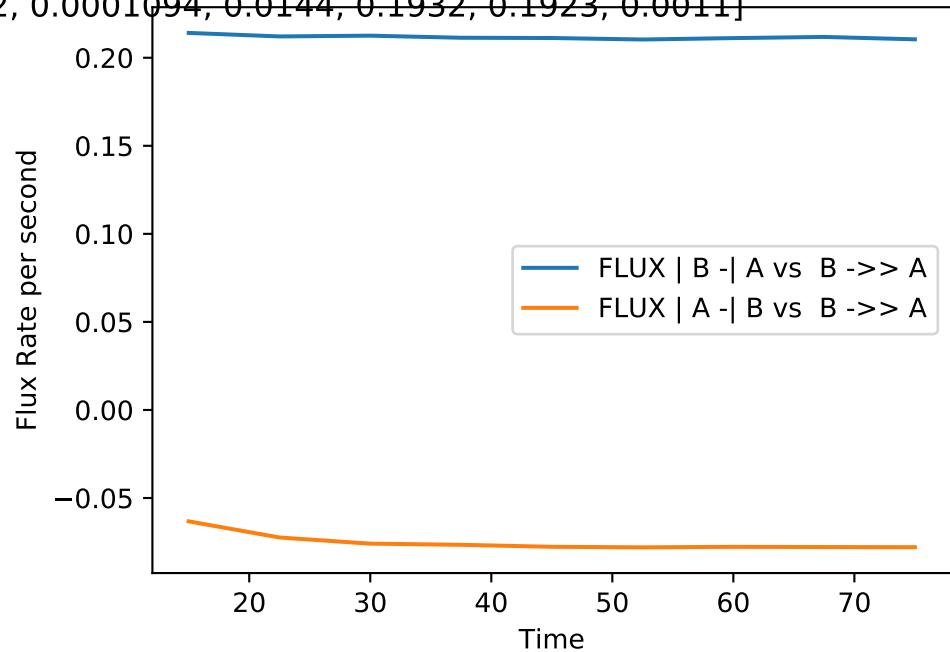
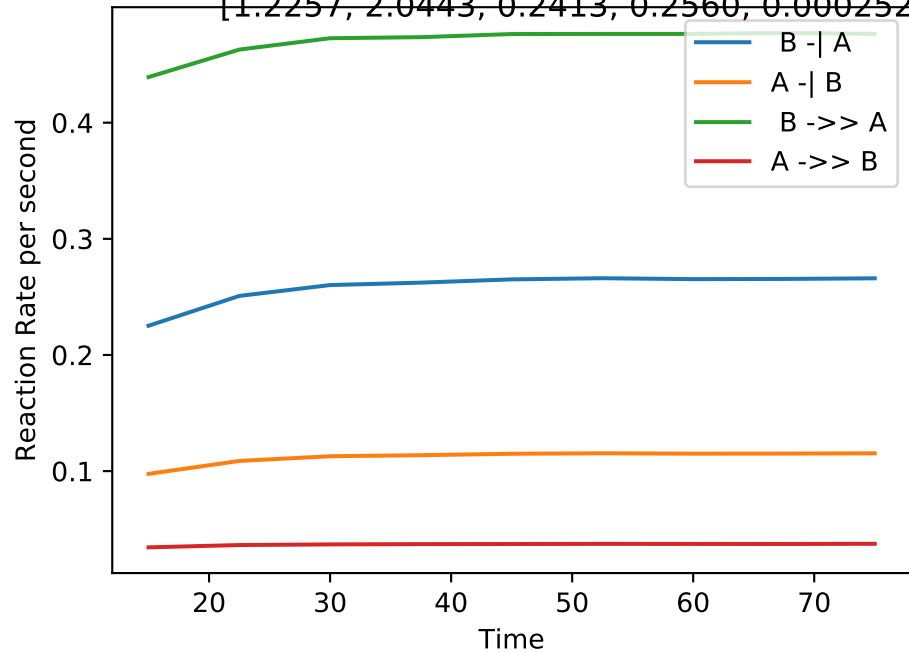
70

Time



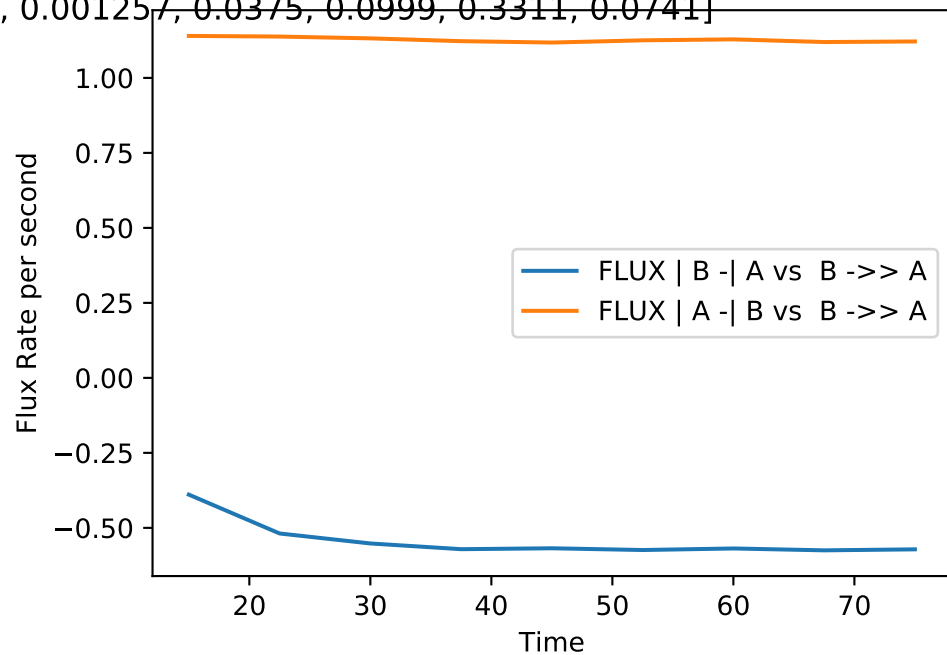
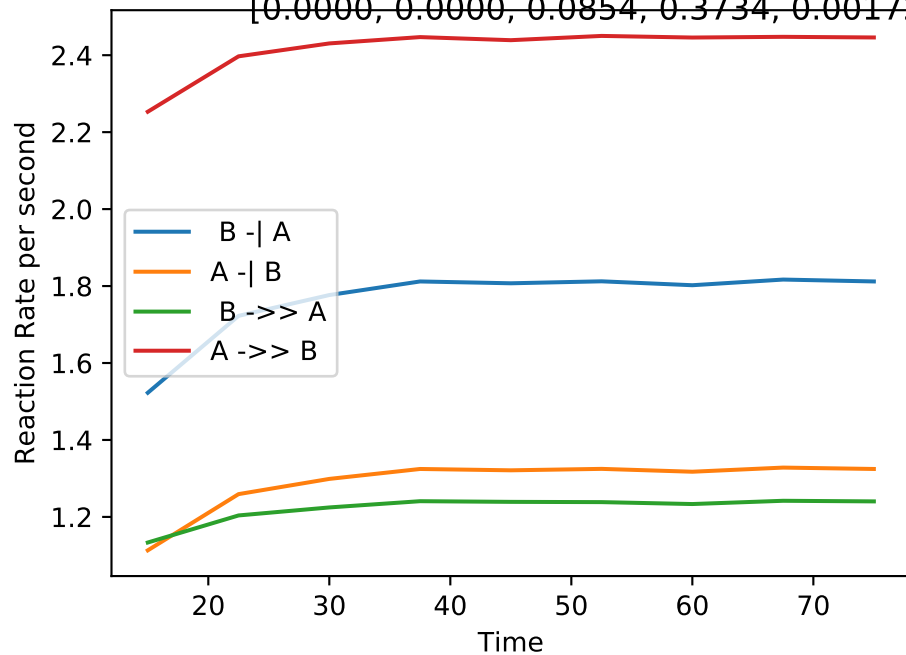
Double_up | MB-LLS Double_up(#7):

[1.2257, 2.0443, 0.2413, 0.2560, 0.0002522, 0.0001094, 0.0144, 0.1932, 0.1923, 0.0011]



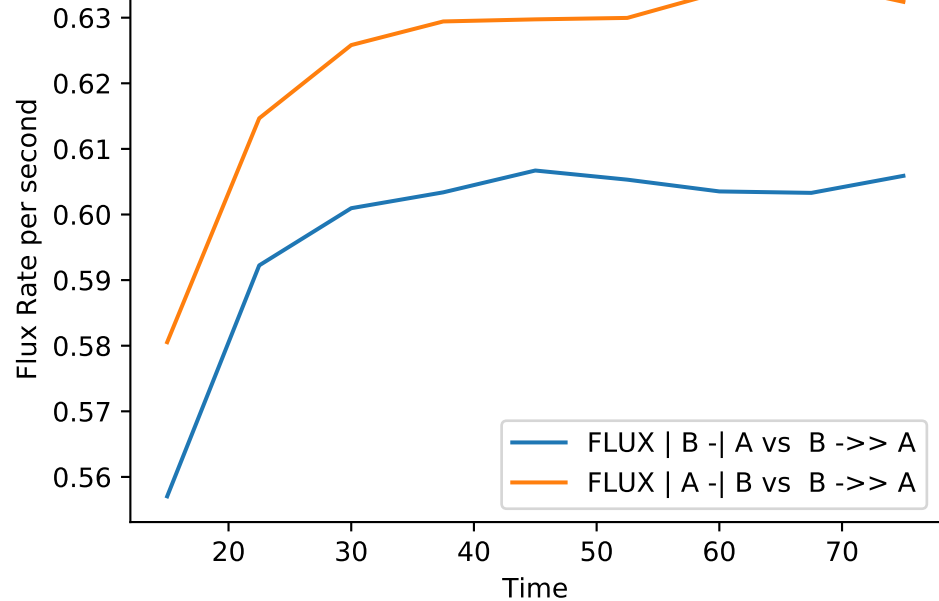
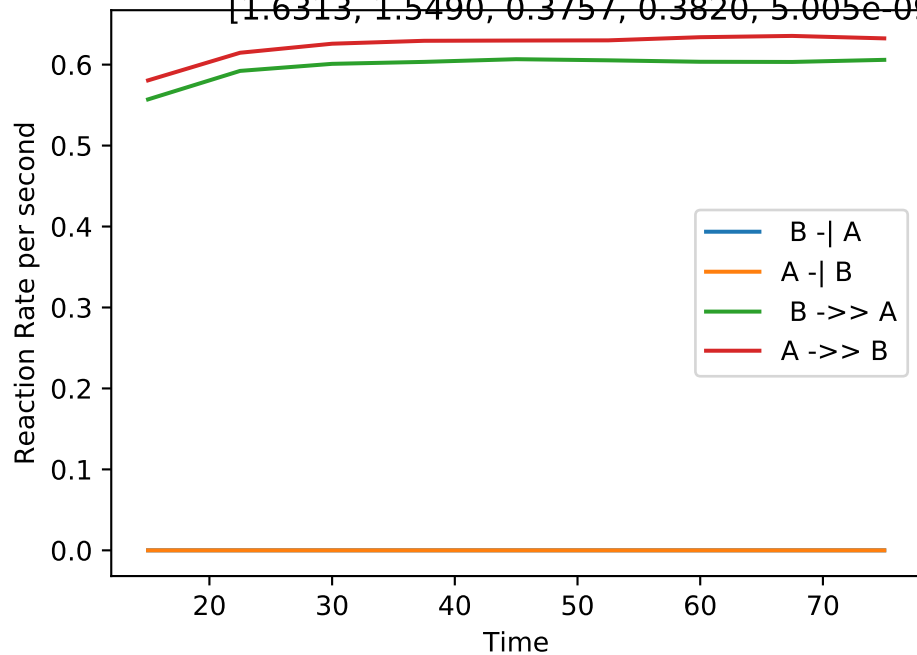
Double_up | MB-LLS Double_up(#8):

[0.0000, 0.0000, 0.0854, 0.3734, 0.00172, 0.001257, 0.0375, 0.0999, 0.3311, 0.0741]



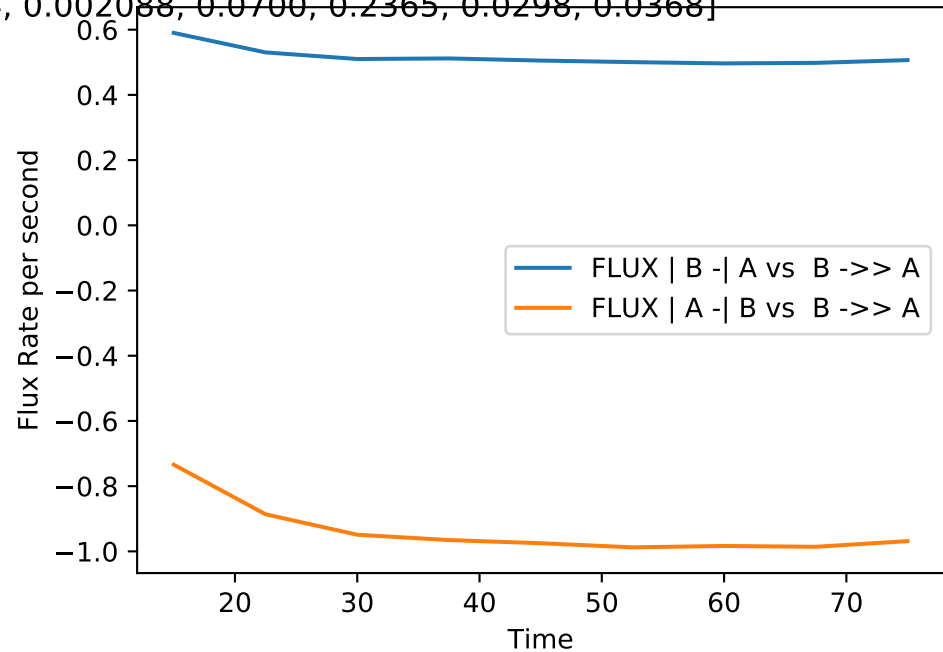
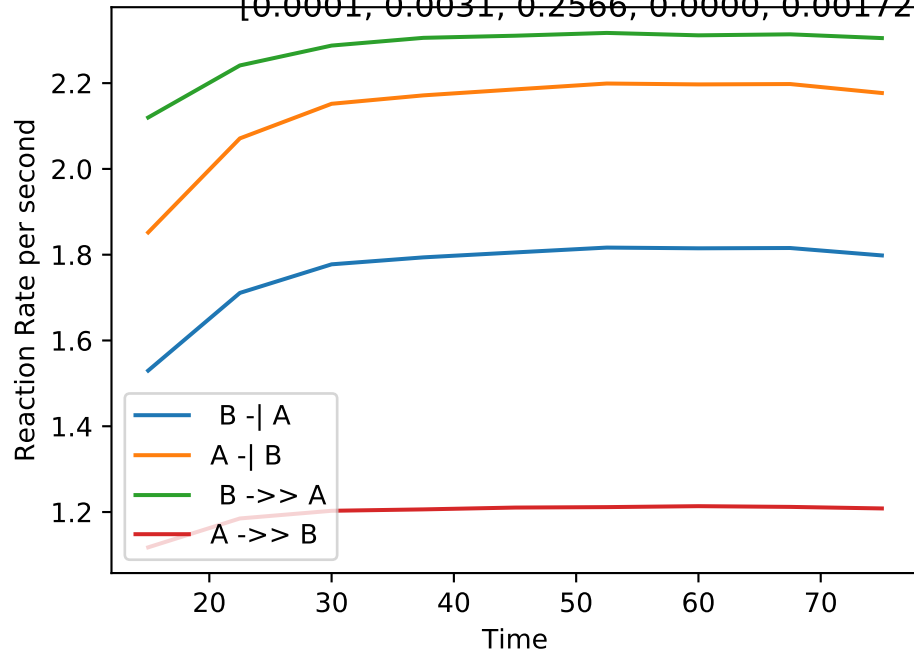
Double_up | MB-LLS Double_up(#9):

[1.6313, 1.5490, 0.3757, 0.3820, 5.005e-09, 6.404e-09, 0.0184, 0.3001, 0.3074, 0.0191]



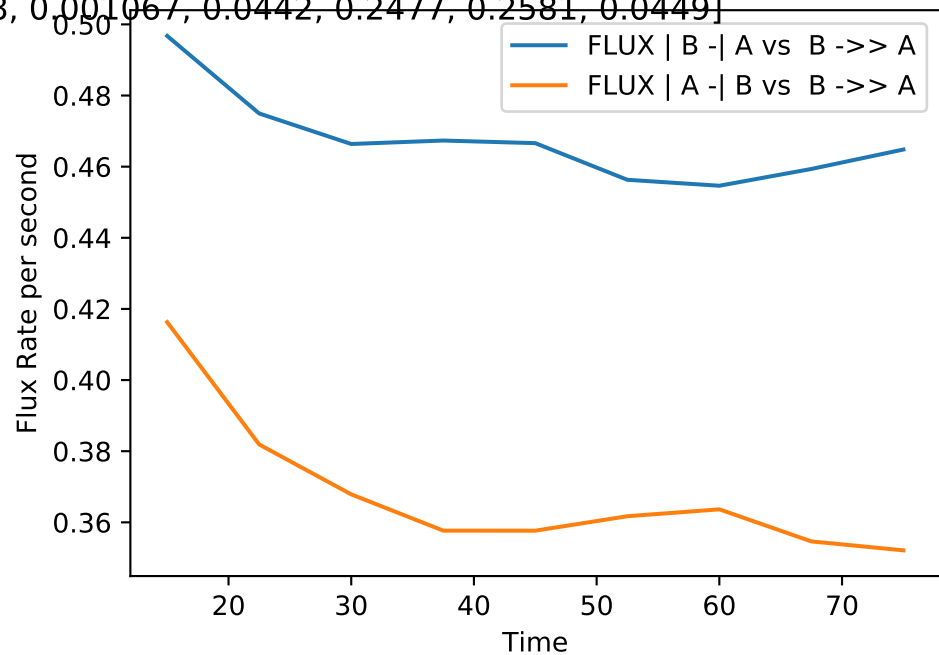
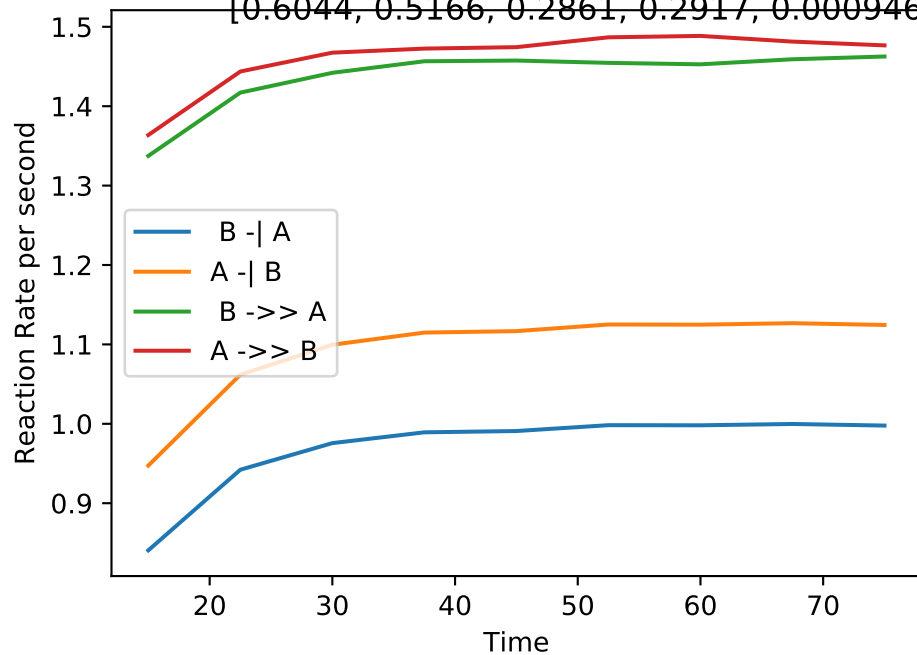
Double_up | MB-LLS Double_up(#10):

[0.0001, 0.0031, 0.2566, 0.0000, 0.001724, 0.002088, 0.0700, 0.2365, 0.0298, 0.0368]



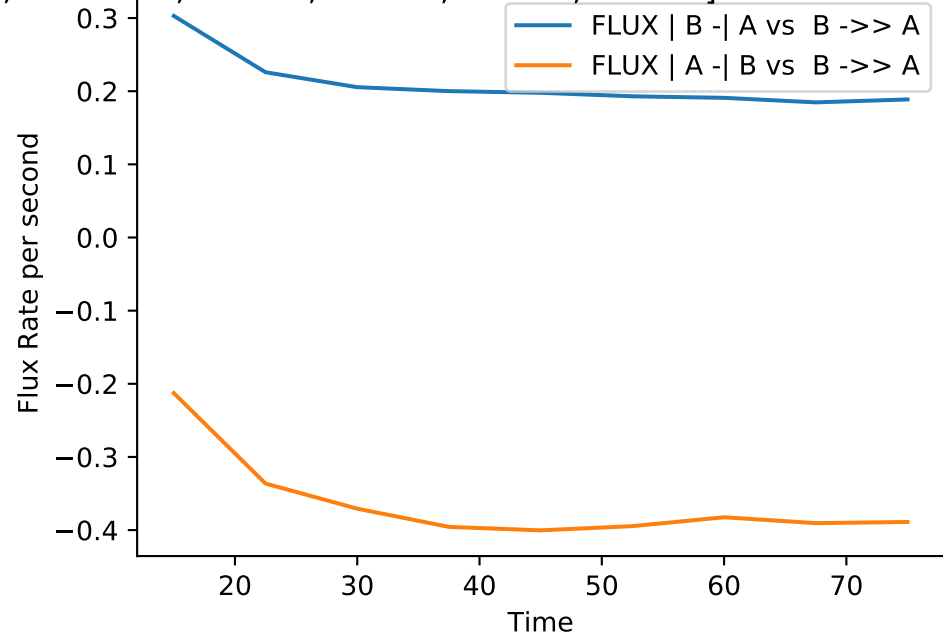
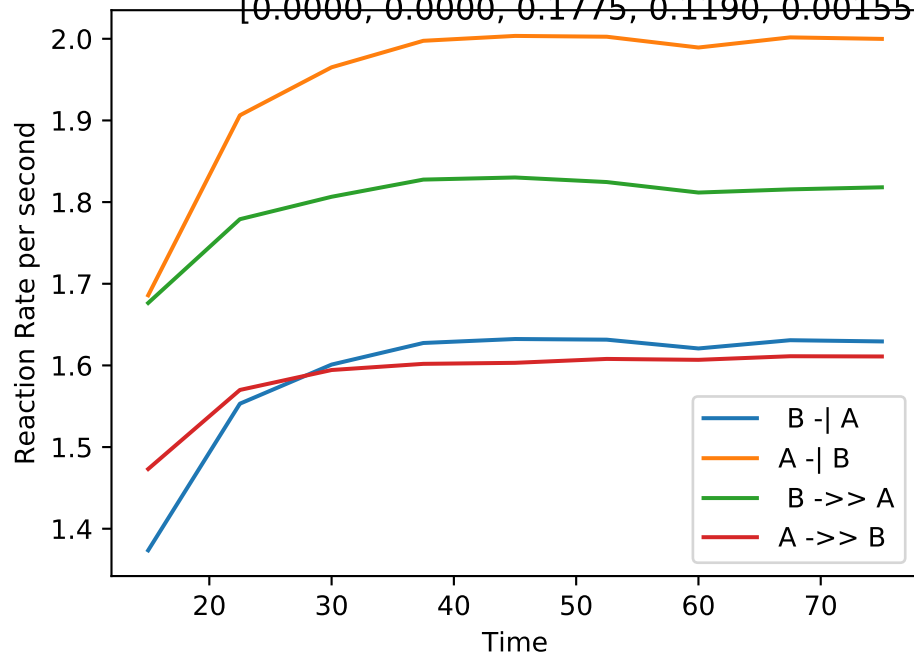
Double_up | MB-LLS Double_up(#11):

[0.6044, 0.5166, 0.2861, 0.2917, 0.0009468, 0.001067, 0.0442, 0.2477, 0.2581, 0.0449]



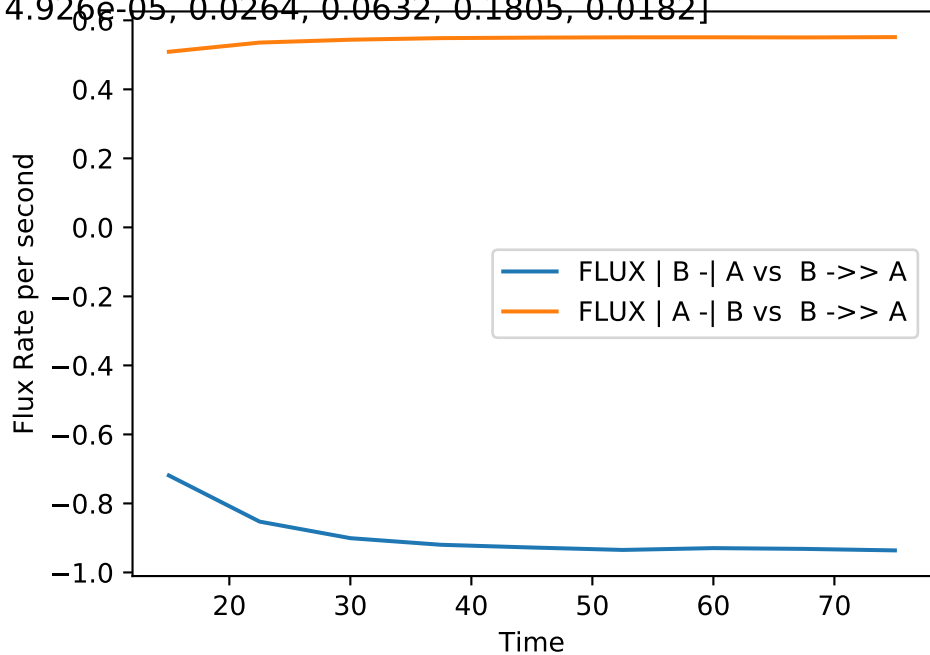
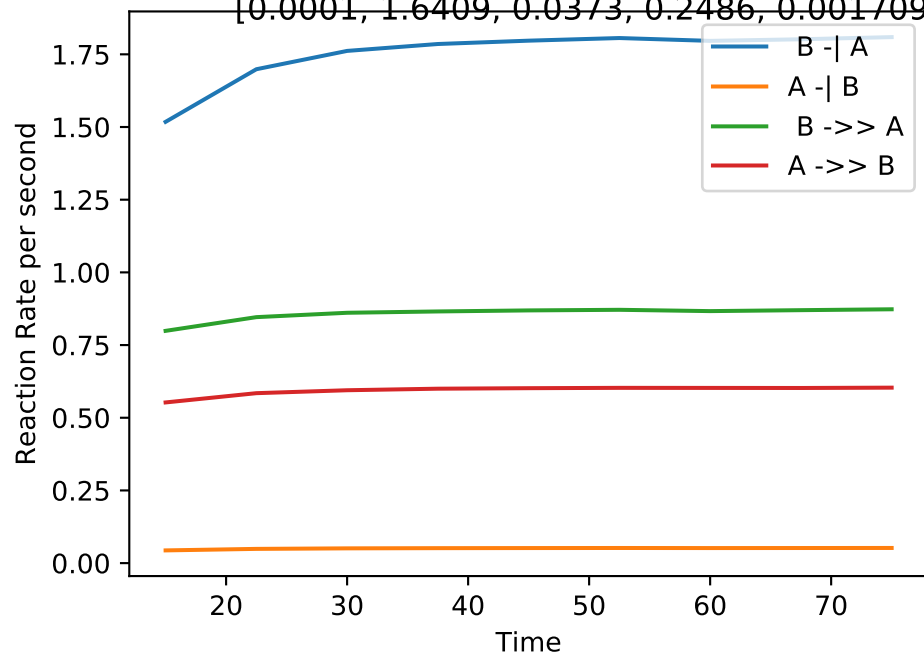
Double_up | MB-LLS Double_up(#12):

[0.0000, 0.0000, 0.1775, 0.1190, 0.001551, 0.001904, 0.0553, 0.1685, 0.1280, 0.0487]



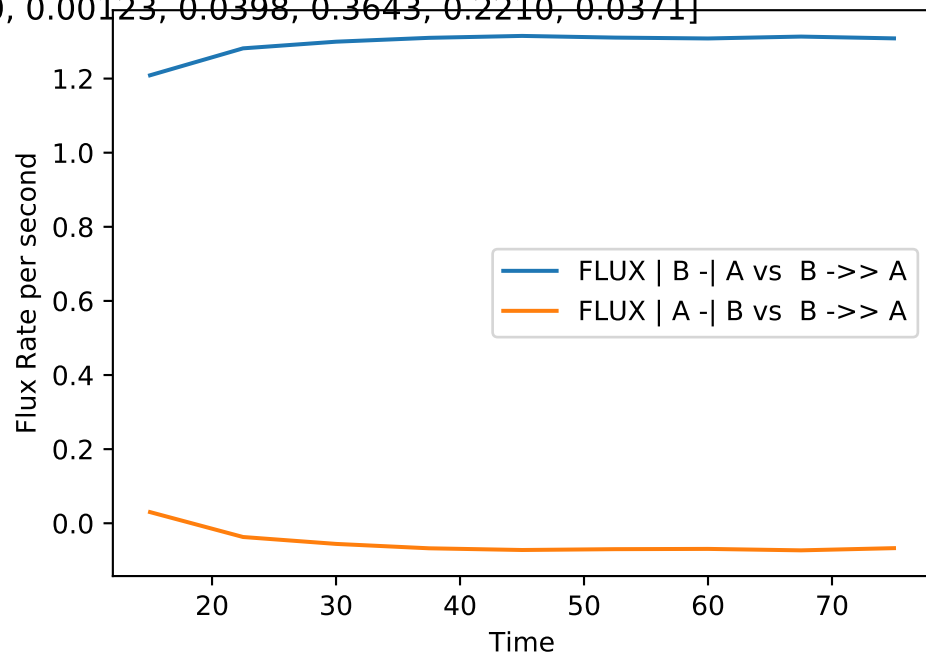
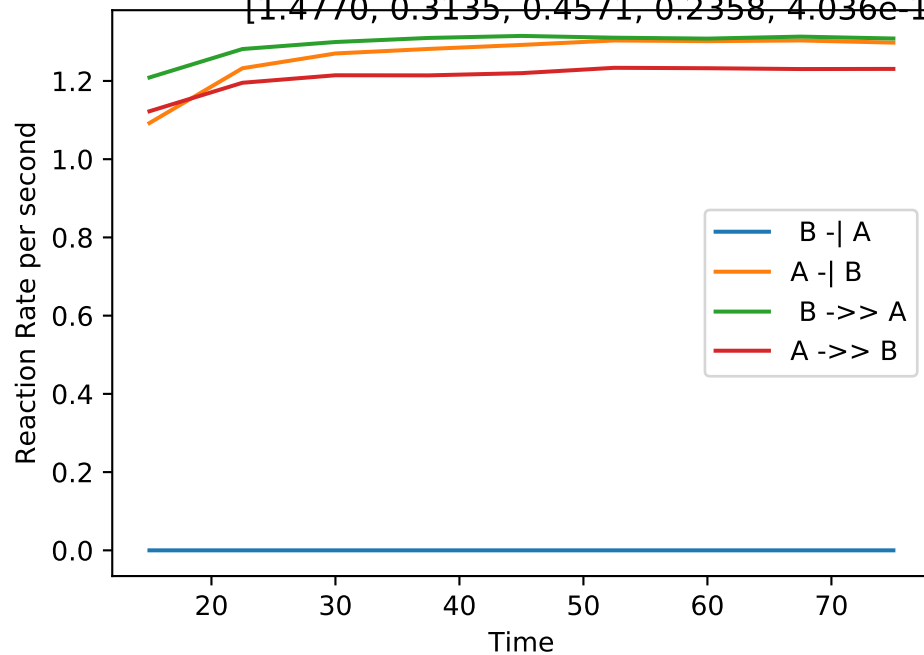
Double_up | MB-LLS Double_up(#13):

[0.0001, 1.6409, 0.0373, 0.2486, 0.001709, 4.926e-05, 0.0264, 0.0632, 0.1805, 0.0182]



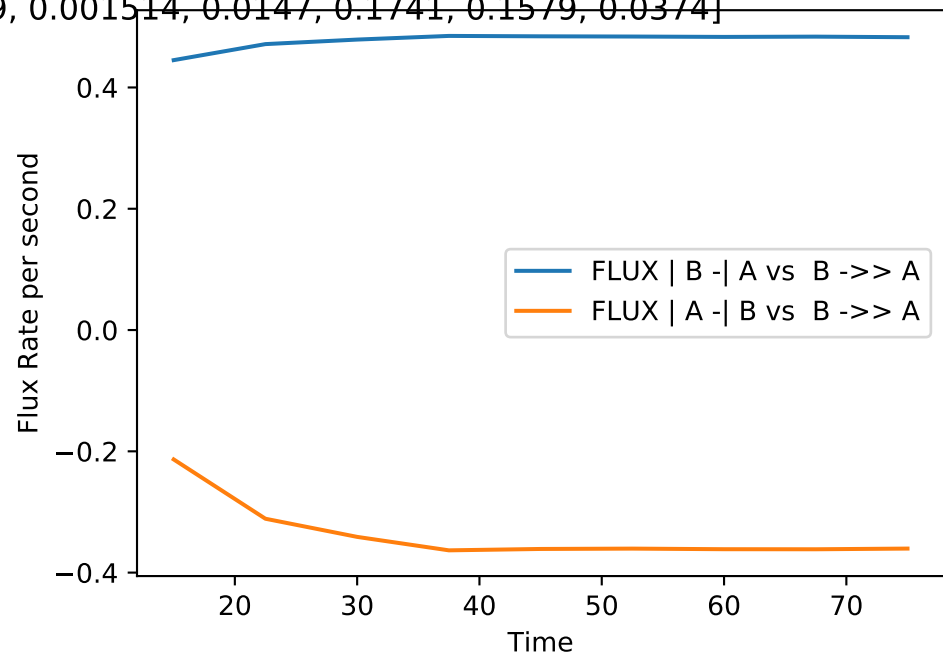
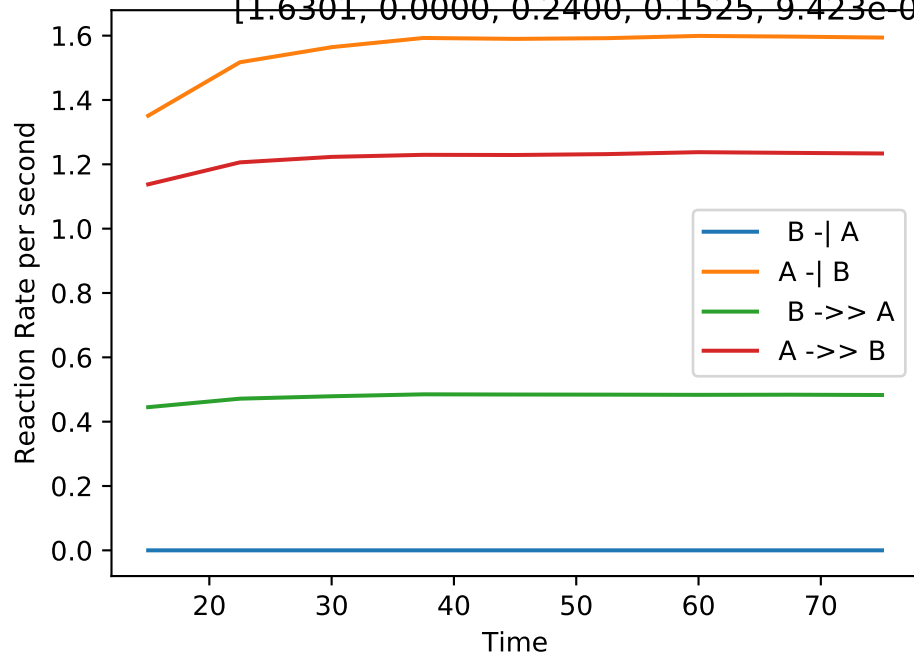
Double_up | MB-LLS Double_up(#14):

[1.4770, 0.3135, 0.4571, 0.2358, 4.036e-10, 0.00123, 0.0398, 0.3643, 0.2210, 0.0371]



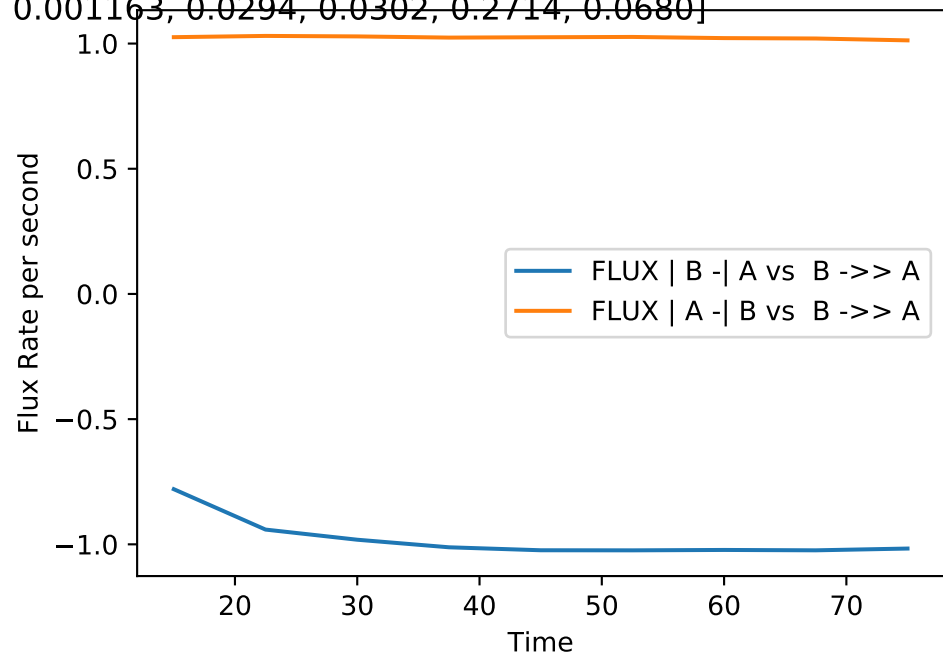
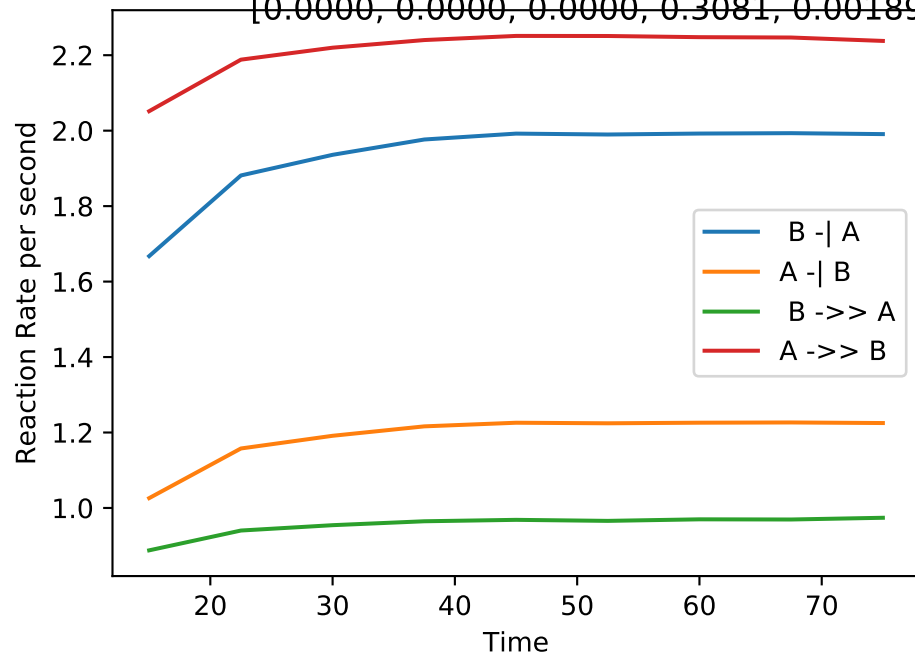
Double_up | MB-LLS Double_up(#15):

[1.6301, 0.0000, 0.2400, 0.1525, 9.423e-09, 0.001514, 0.0147, 0.1741, 0.1579, 0.0374]



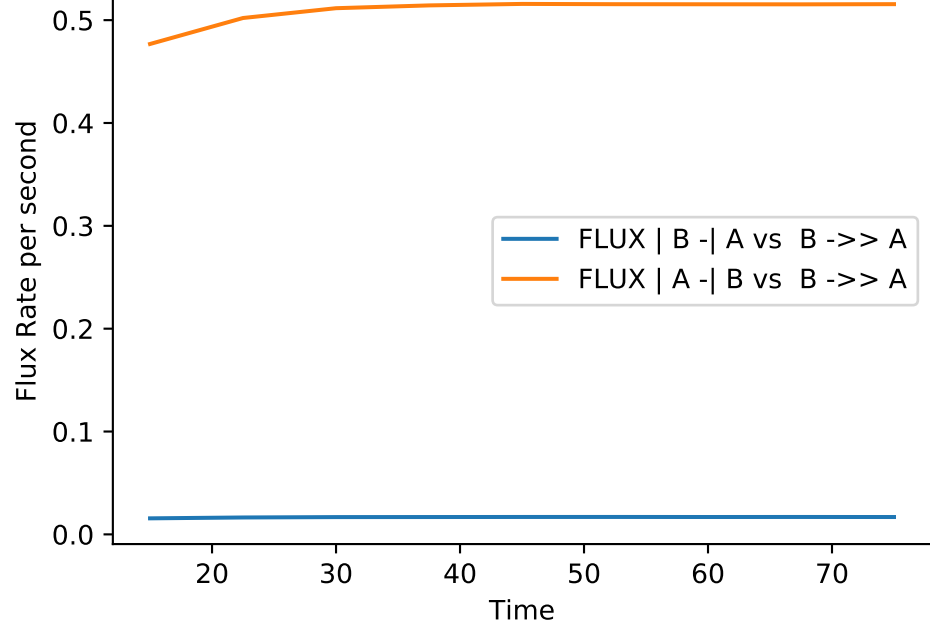
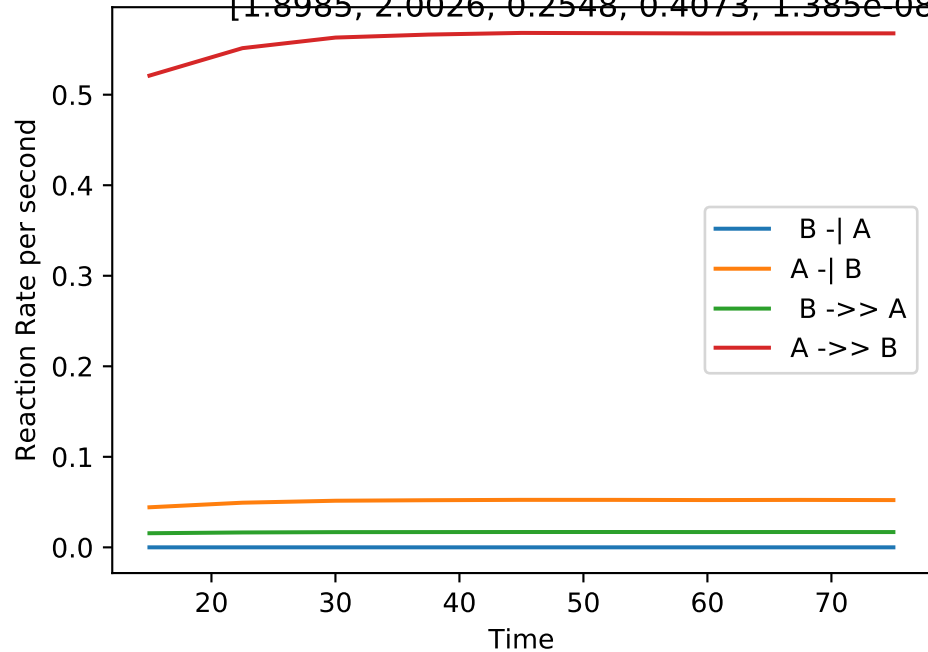
Double_up | MB-LLS Double_up(#16):

[0.0000, 0.0000, 0.0000, 0.3081, 0.00189, 0.001163, 0.0294, 0.0302, 0.2714, 0.0680]



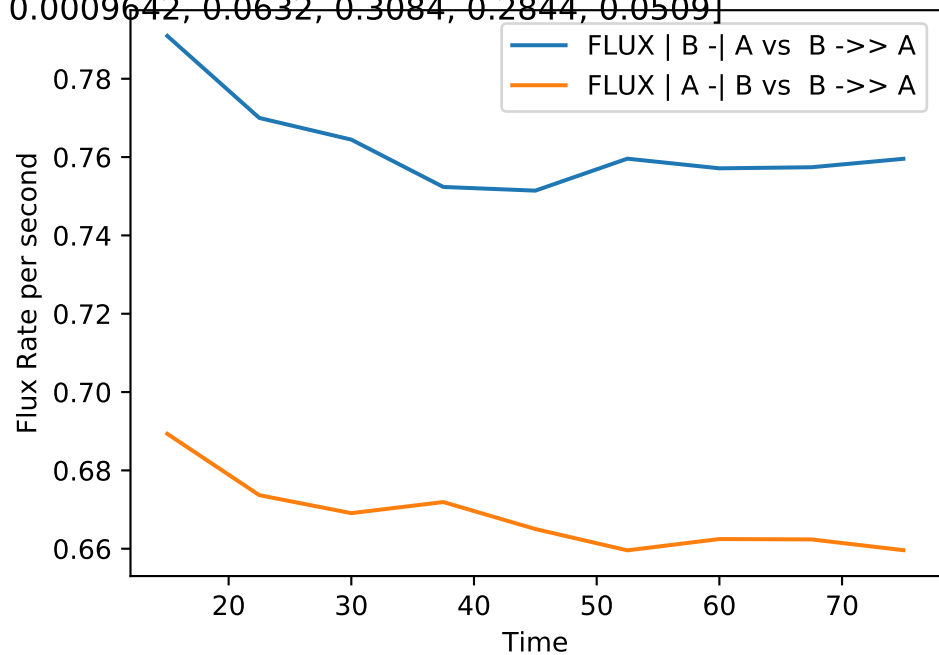
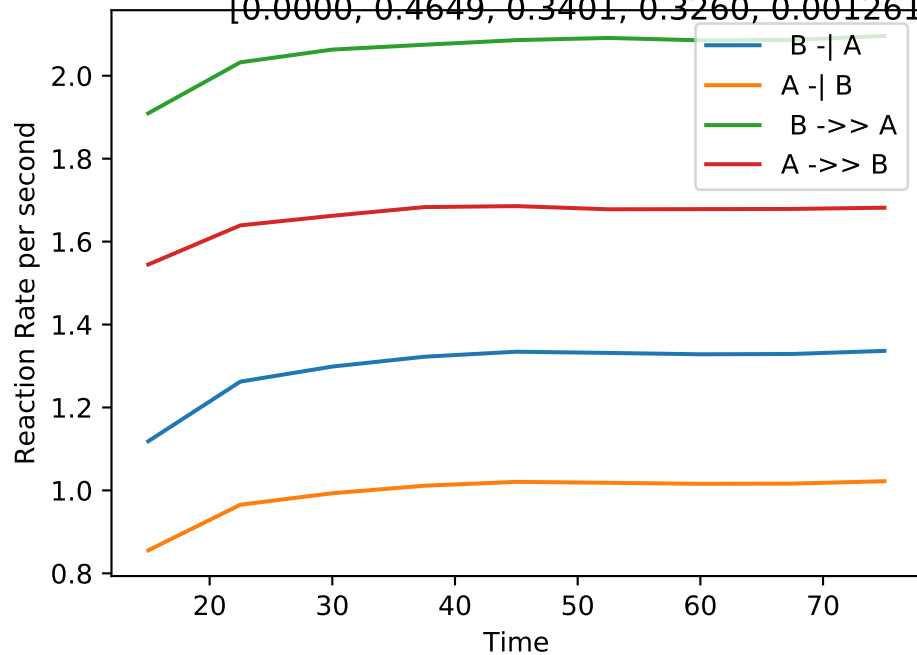
Double_up | MB-LLS Double_up(#17):

[1.8985, 2.0026, 0.2548, 0.4073, 1.385e-08, 4.964e-05, 0.0005, 0.1926, 0.3225, 0.0172]



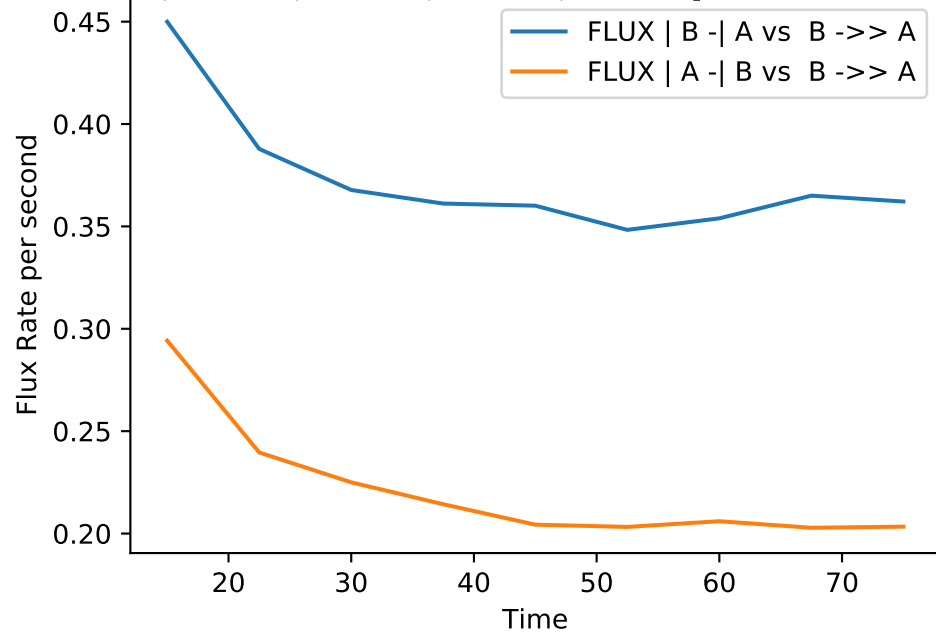
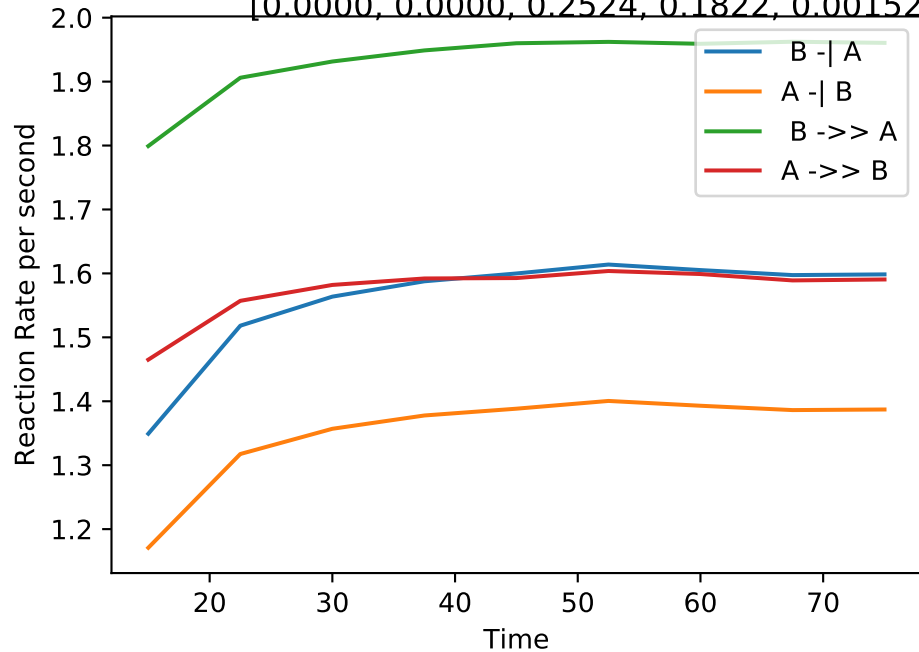
Double_up | MB-LLS Double_up(#18):

[0.0000, 0.4649, 0.3401, 0.3260, 0.001261, 0.0009642, 0.0632, 0.3084, 0.2844, 0.0509]



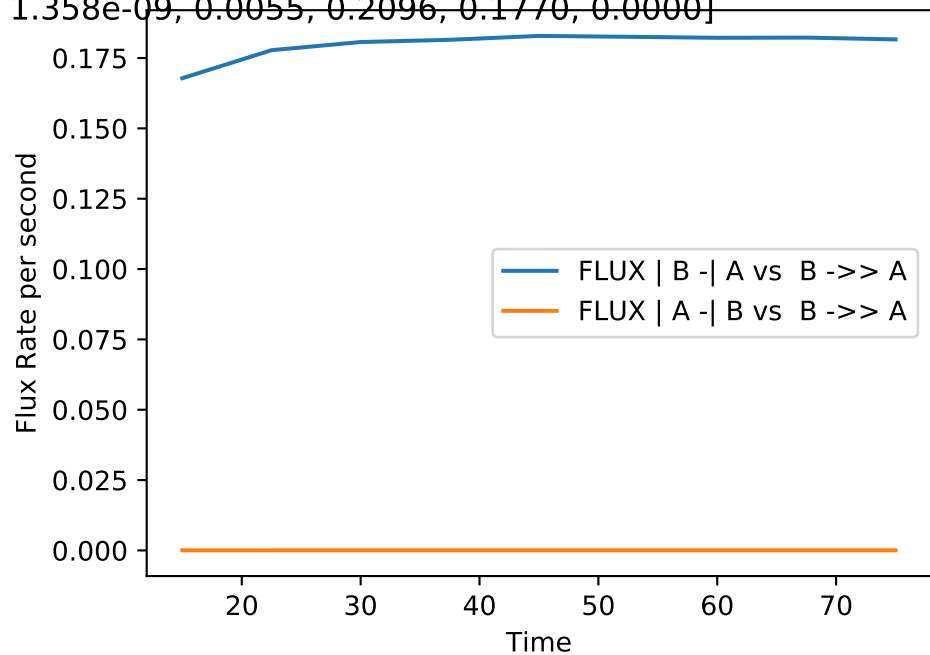
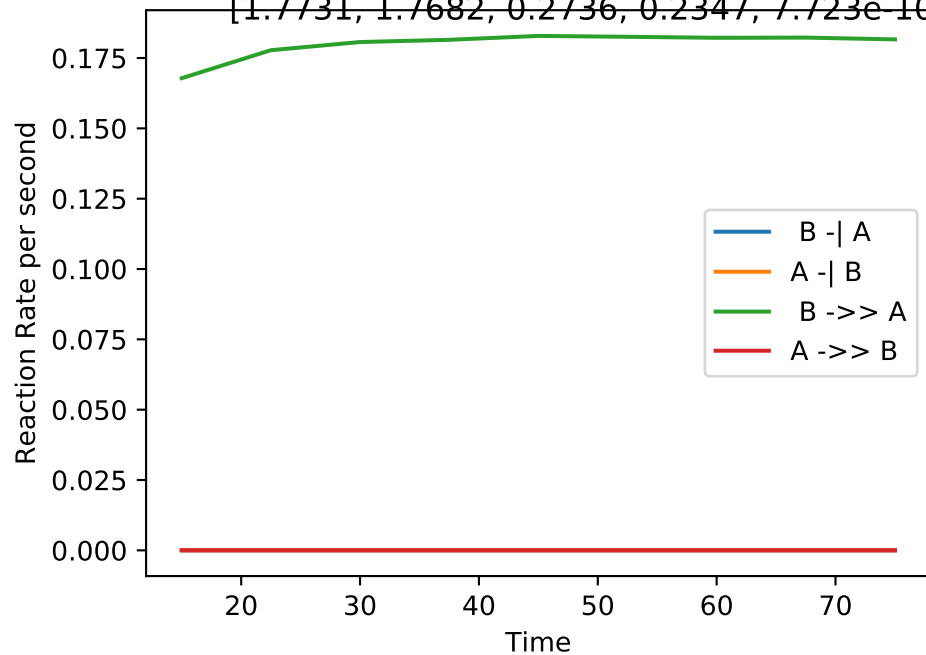
Double_up | MB-LLS Double_up(#19):

[0.0000, 0.0000, 0.2524, 0.1822, 0.00152, 0.001319, 0.0594, 0.2355, 0.1720, 0.0483]



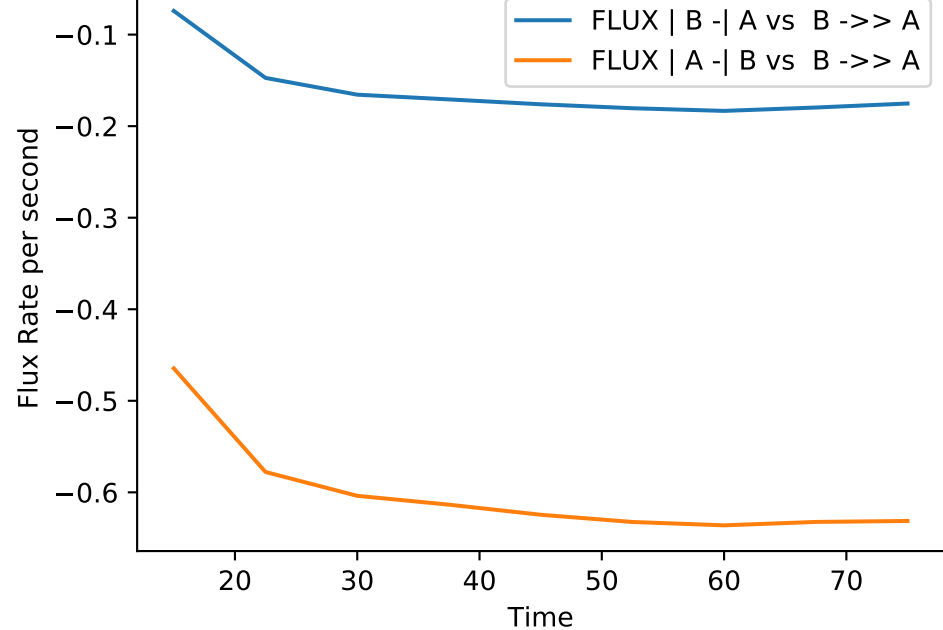
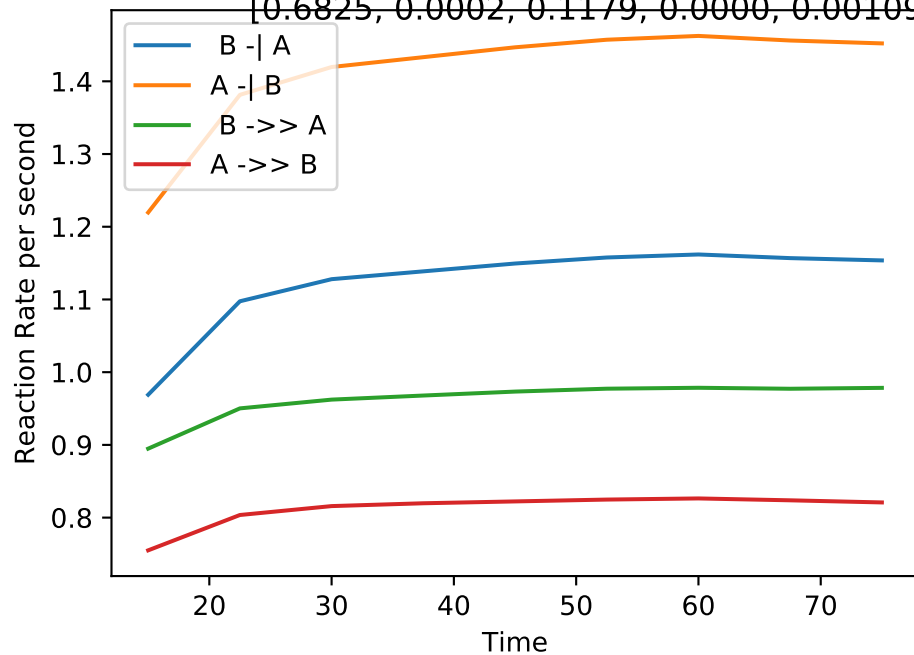
Double_up | MB-LLS Double_up(#20):

[1.7731, 1.7682, 0.2736, 0.2347, 7.723e-10, 1.358e-09, 0.0055, 0.2096, 0.1770, 0.0000]



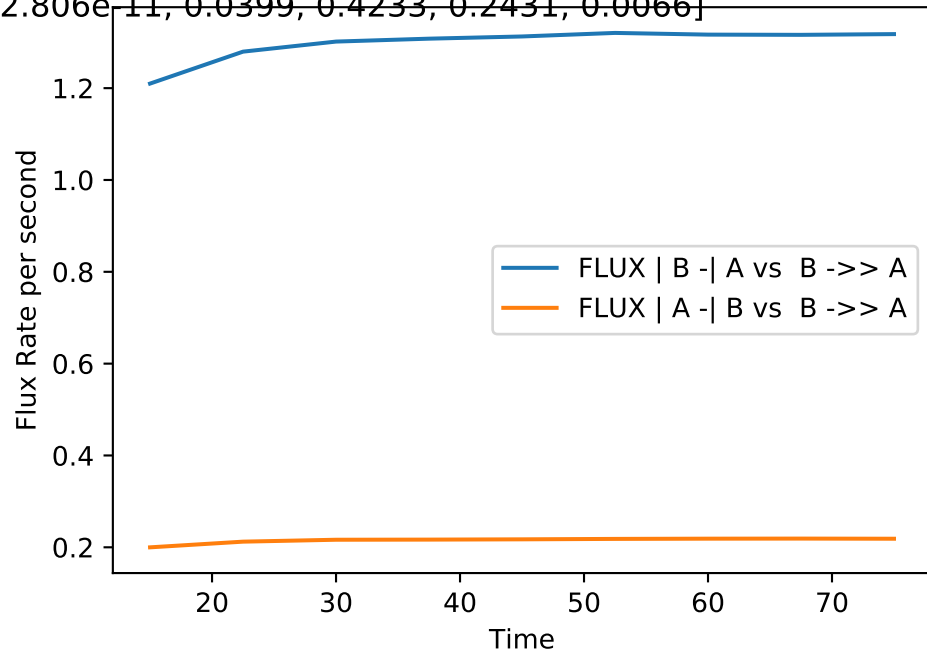
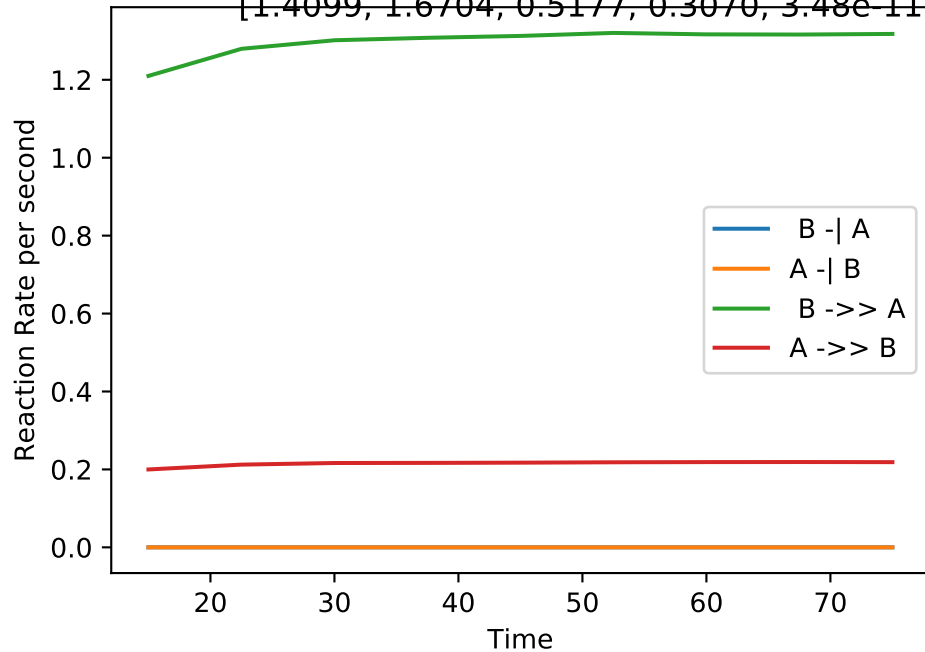
Double_up | MB-LLS Double_up(#21):

[0.6825, 0.0002, 0.1179, 0.0000, 0.001097, 0.00138, 0.0296, 0.1019, 0.0197, 0.0249]



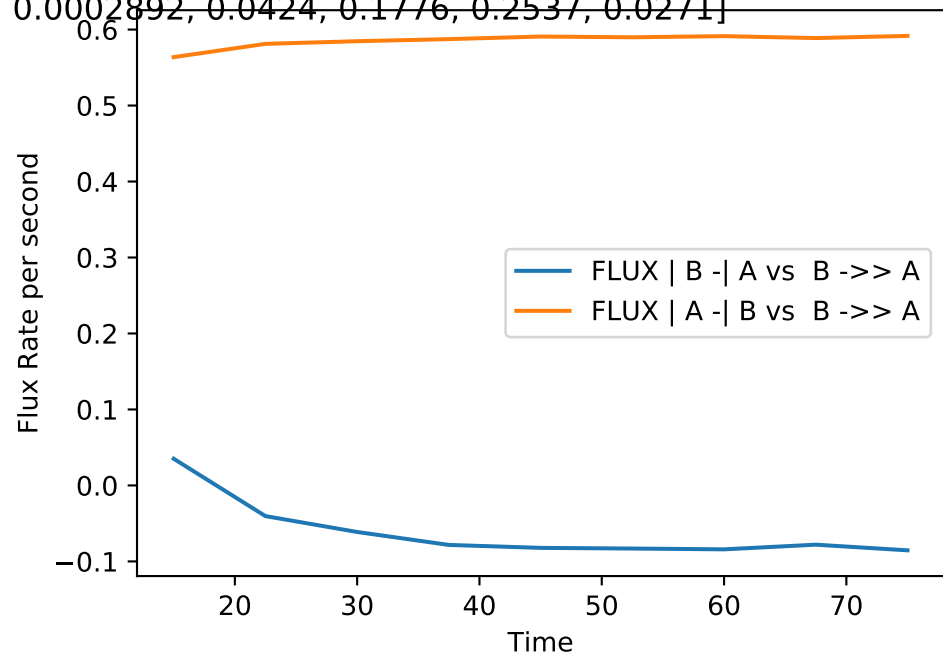
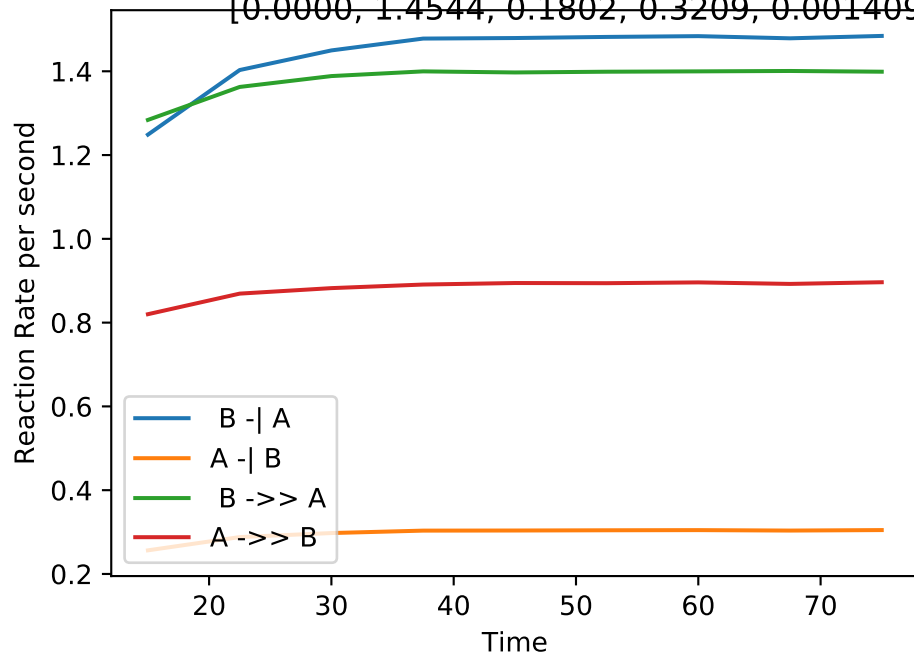
Double_up | MB-LLS Double_up(#22):

[1.4099, 1.6704, 0.5177, 0.3070, 3.48e-11, 2.806e-11, 0.0399, 0.4233, 0.2431, 0.0066]



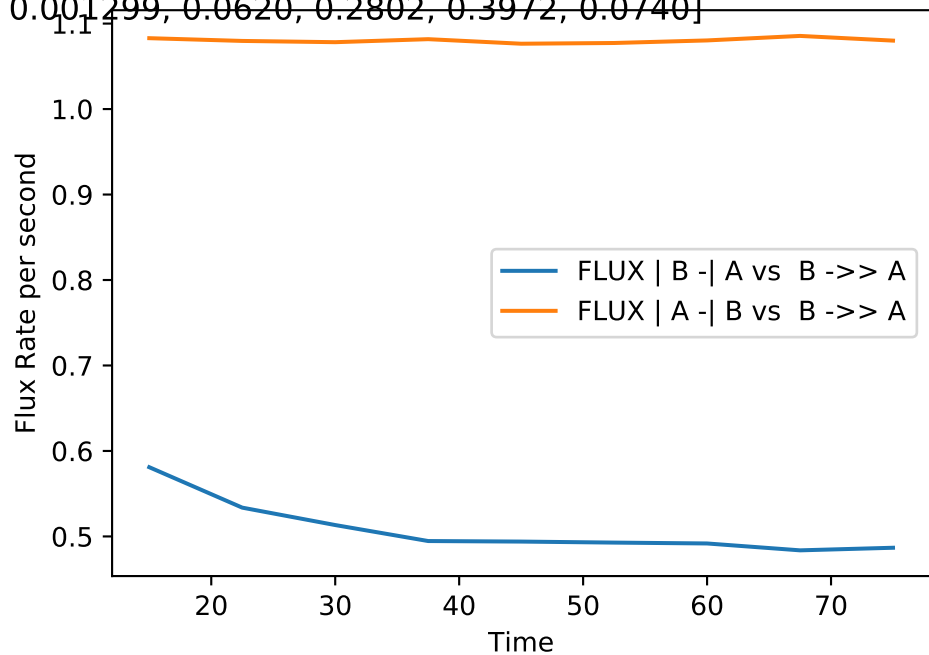
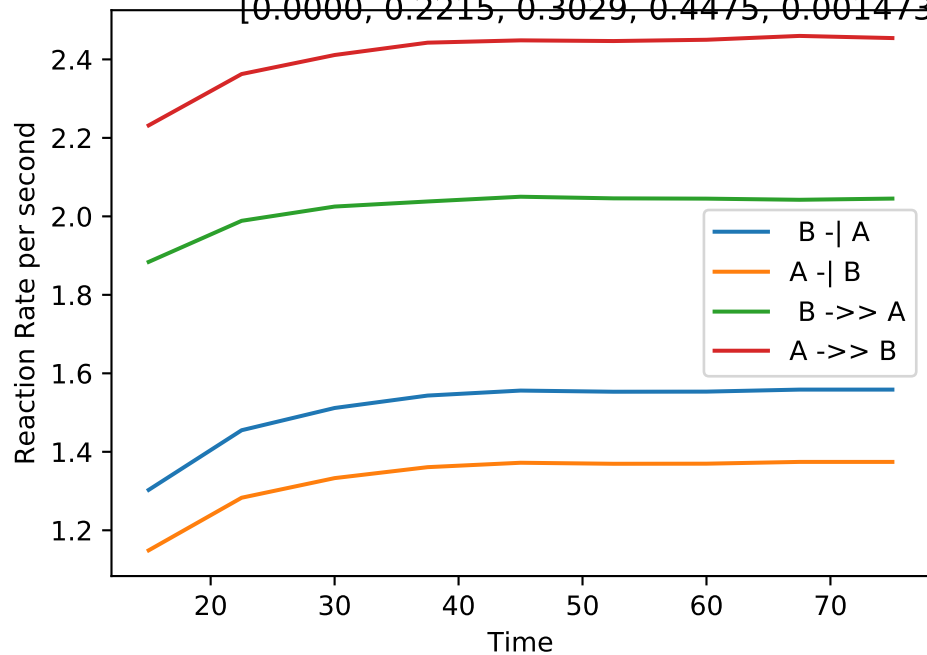
Double_up | MB-LLS Double_up(#23):

[0.0000, 1.4544, 0.1802, 0.3209, 0.001409, 0.0002892, 0.0424, 0.1776, 0.2537, 0.0271]



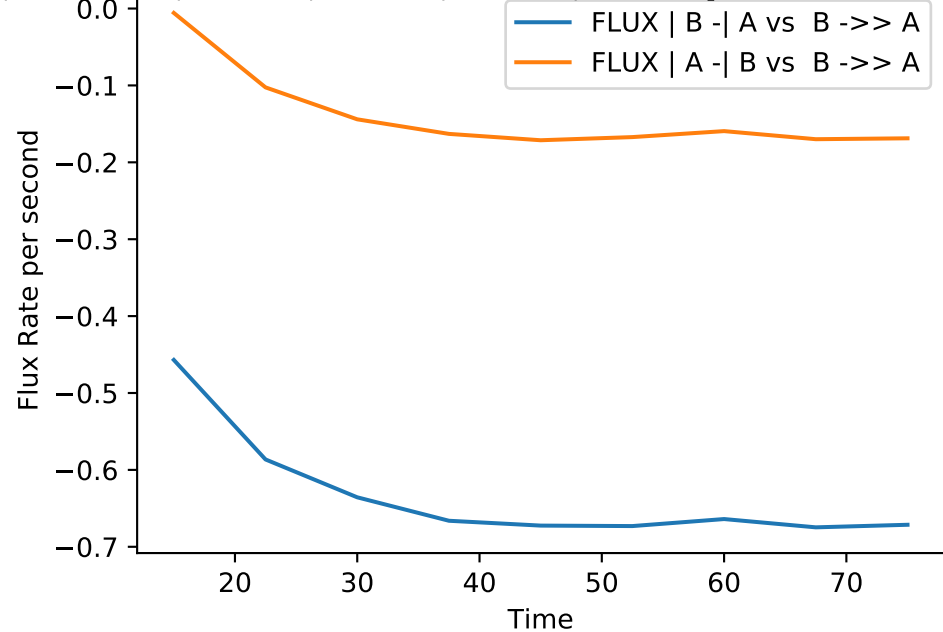
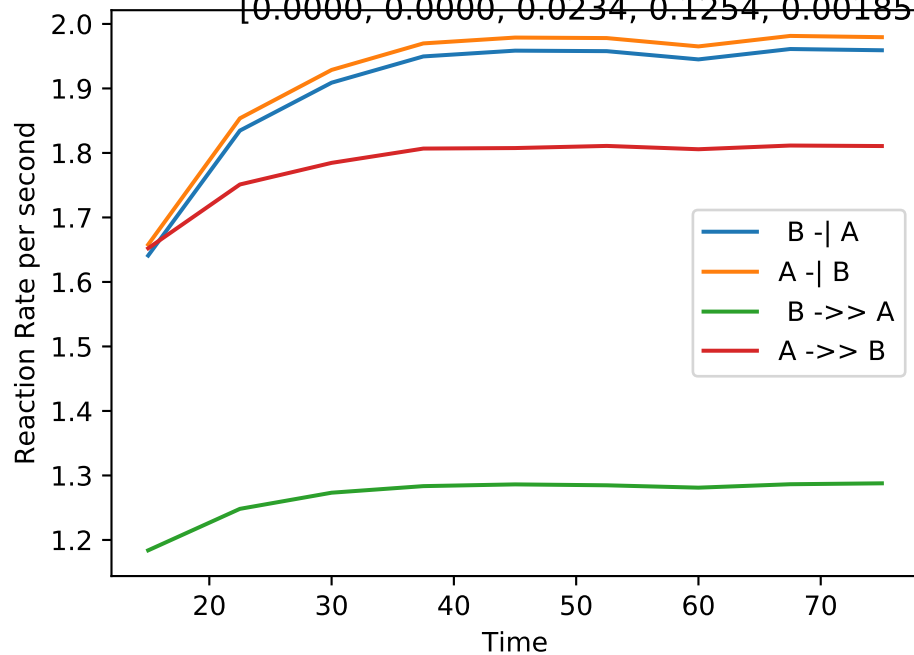
Double_up | MB-LLS Double_up(#24):

[0.0000, 0.2215, 0.3029, 0.4475, 0.001473, 0.001299, 0.0620, 0.2802, 0.3972, 0.0740]



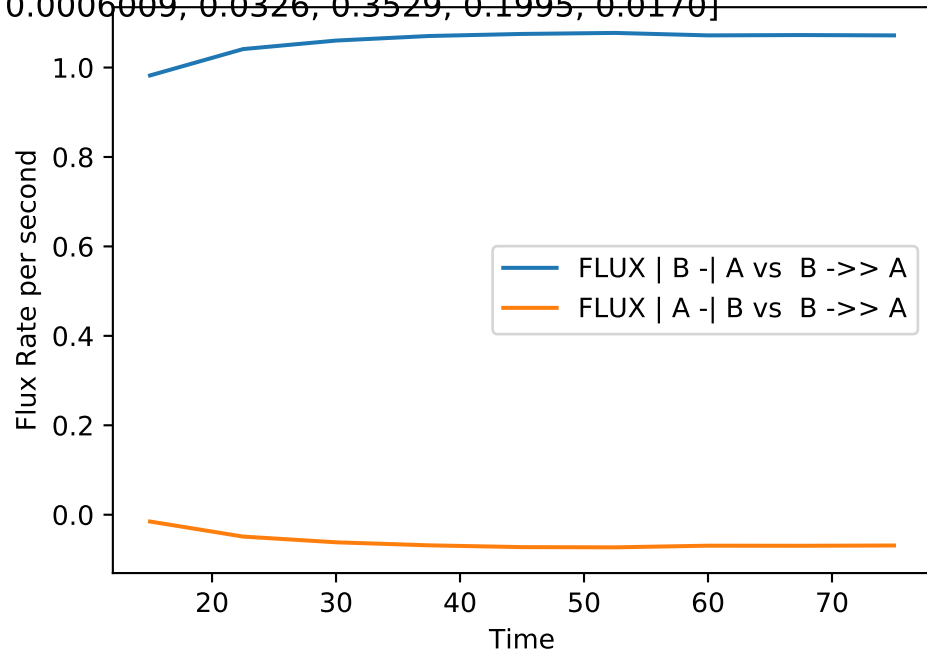
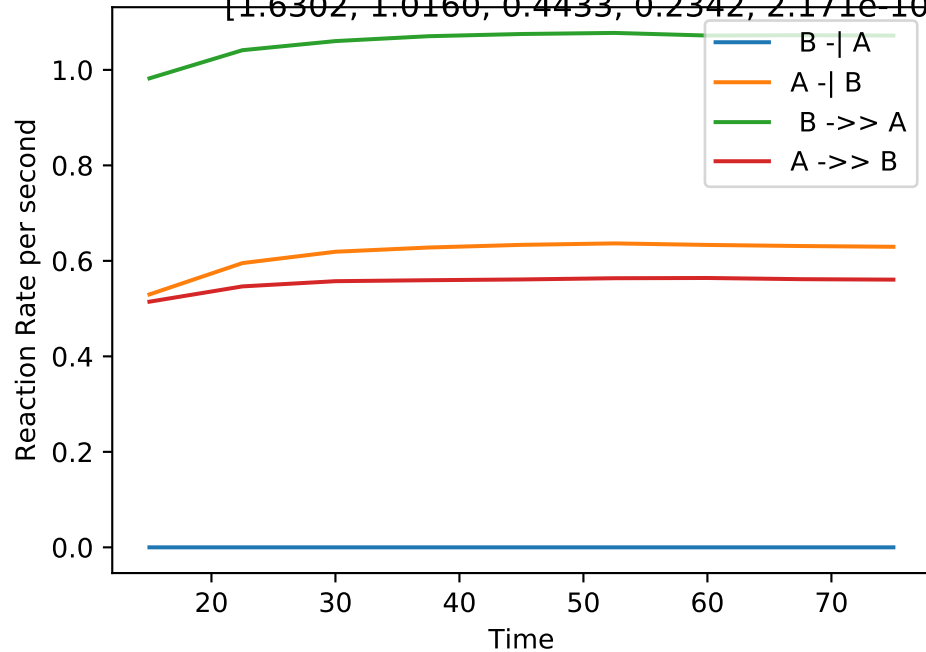
Double_up | MB-LLS Double_up(#25):

[0.0000, 0.0000, 0.0234, 0.1254, 0.001856, 0.001875, 0.0390, 0.0439, 0.1285, 0.0547]



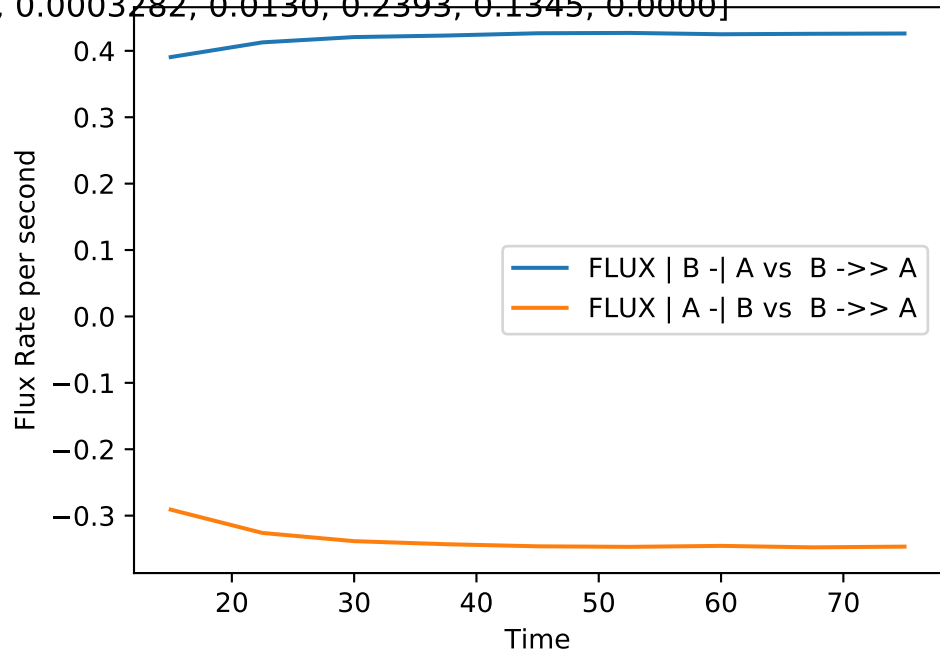
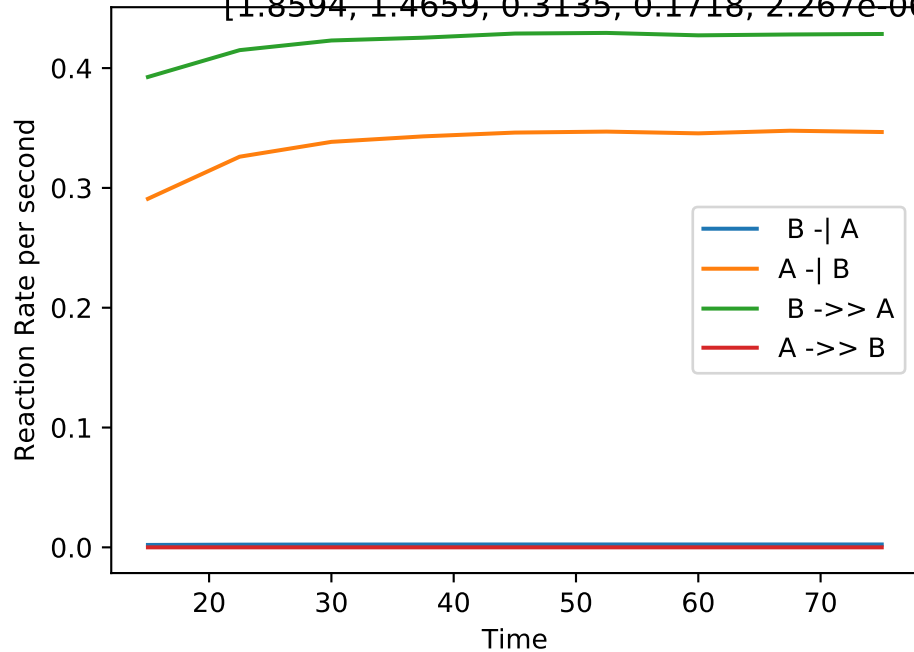
Double_up | MB-LLS Double_up(#26):

[1.6302, 1.0160, 0.4433, 0.2342, 2.171e-10, 0.0006009, 0.0326, 0.3529, 0.1995, 0.0170]



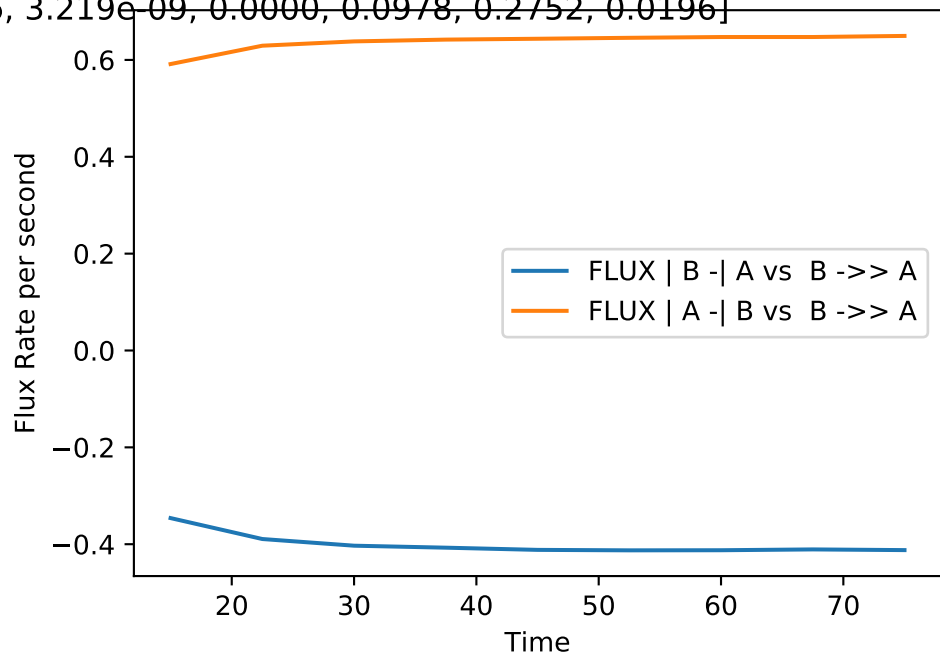
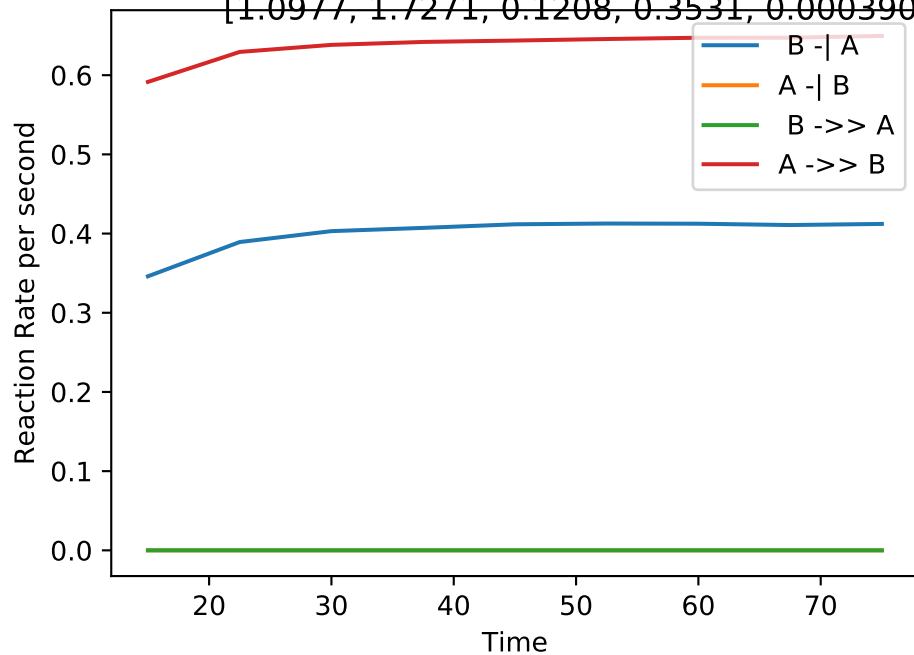
Double_up | MB-LLS Double_up(#27):

[1.8594, 1.4659, 0.3135, 0.1718, 2.267e-06, 0.0003282, 0.0130, 0.2393, 0.1345, 0.0000]



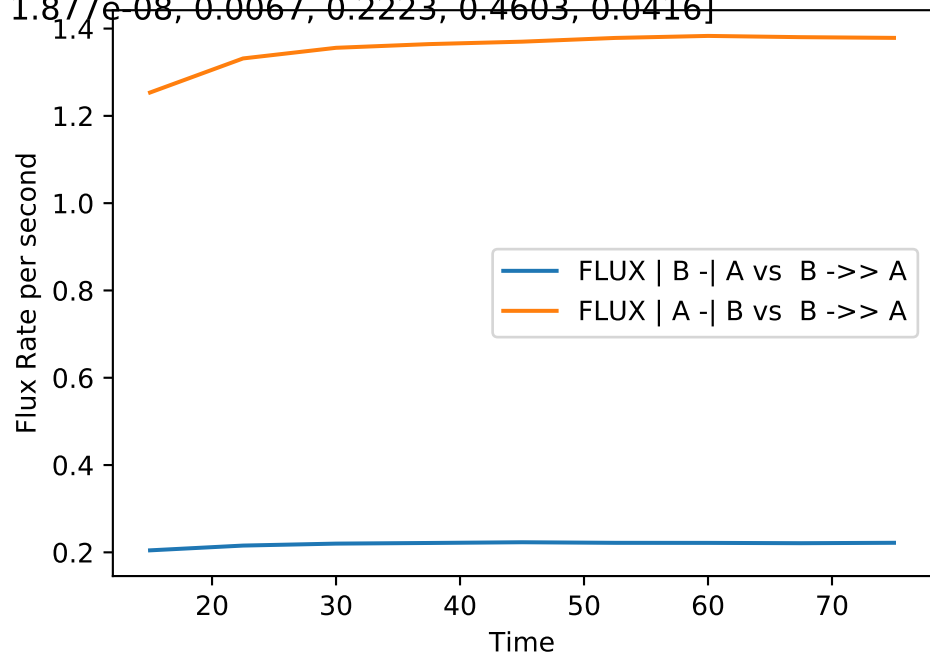
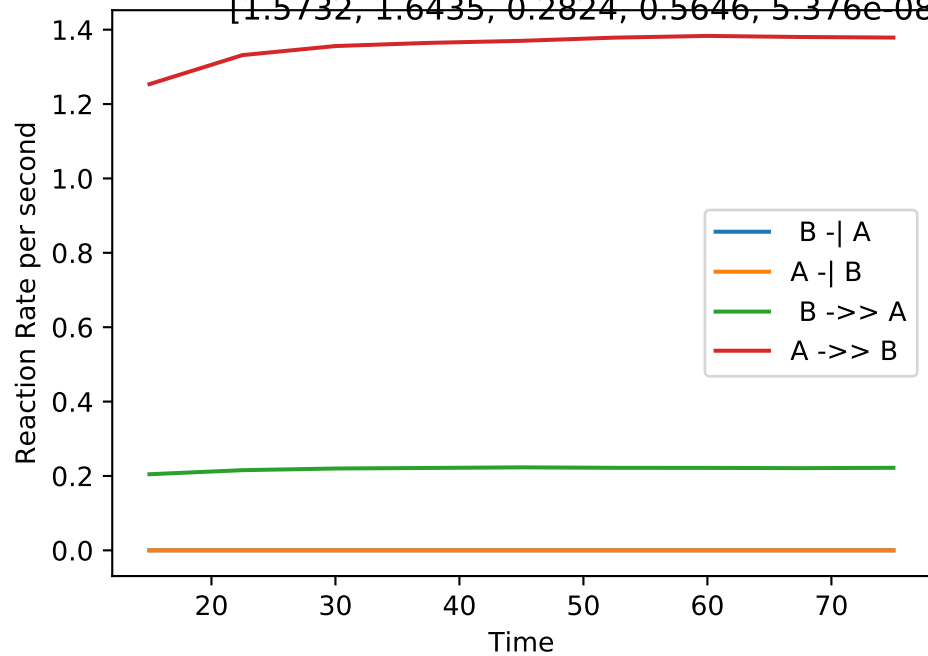
Double_up | MB-LLS Double_up(#28):

[1.0977, 1.7271, 0.1208, 0.3531, 0.0003906, 3.219e-09, 0.0000, 0.0978, 0.2752, 0.0196]



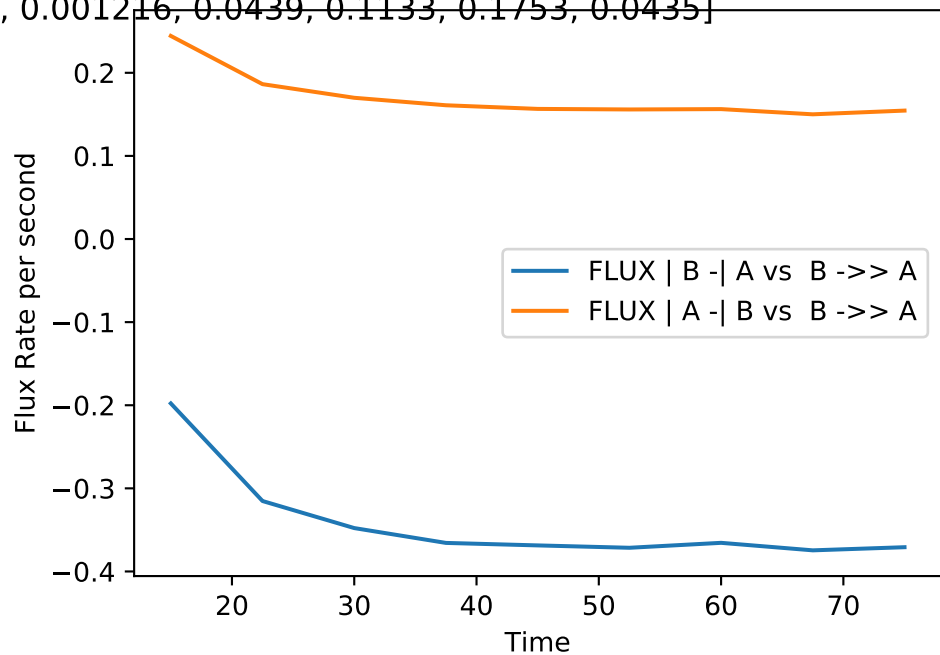
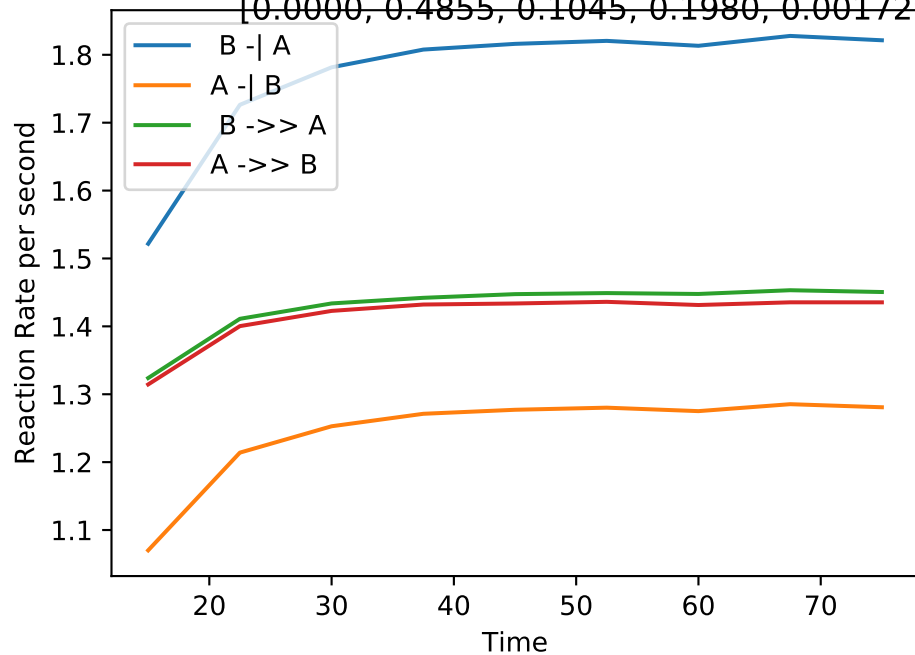
Double_up | MB-LLS Double_up(#29):

[1.5732, 1.6435, 0.2824, 0.5646, 5.376e-08, 1.877e-08, 0.0067, 0.2223, 0.4603, 0.0416]



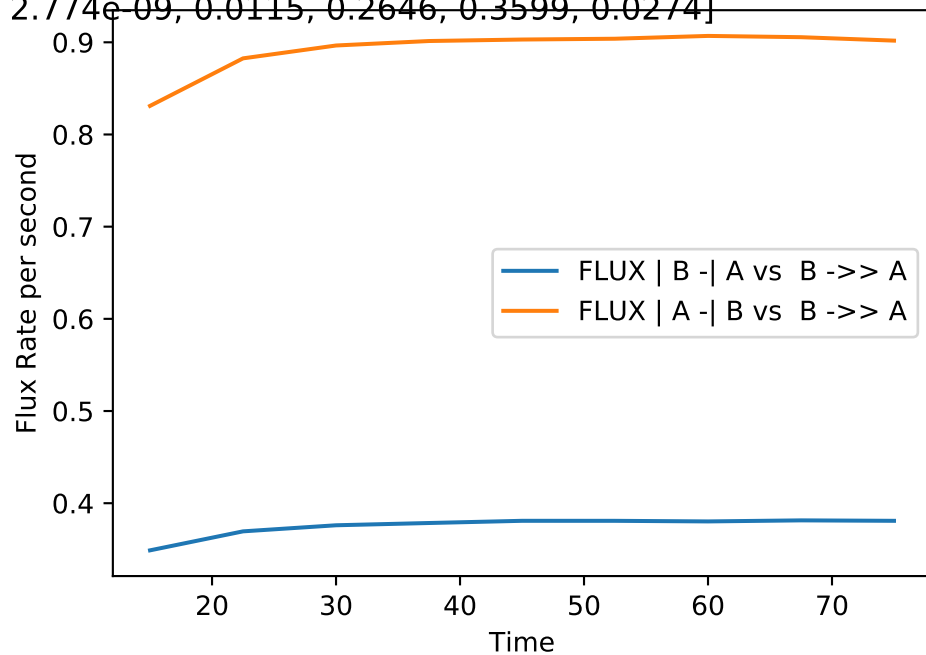
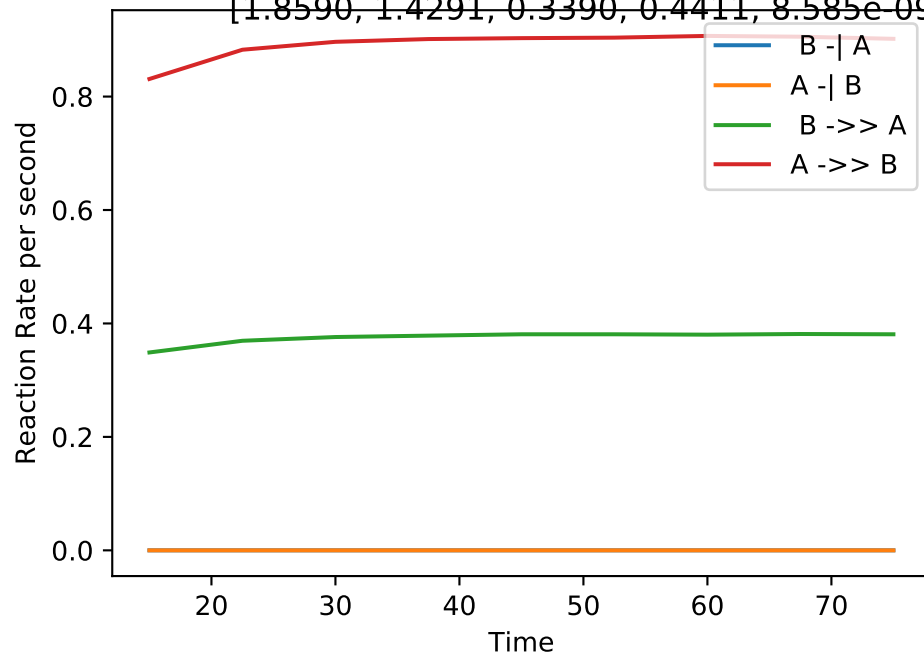
Double_up | MB-LLS Double_up(#30):

[0.0000, 0.4855, 0.1045, 0.1980, 0.001729, 0.001216, 0.0439, 0.1133, 0.1753, 0.0435]



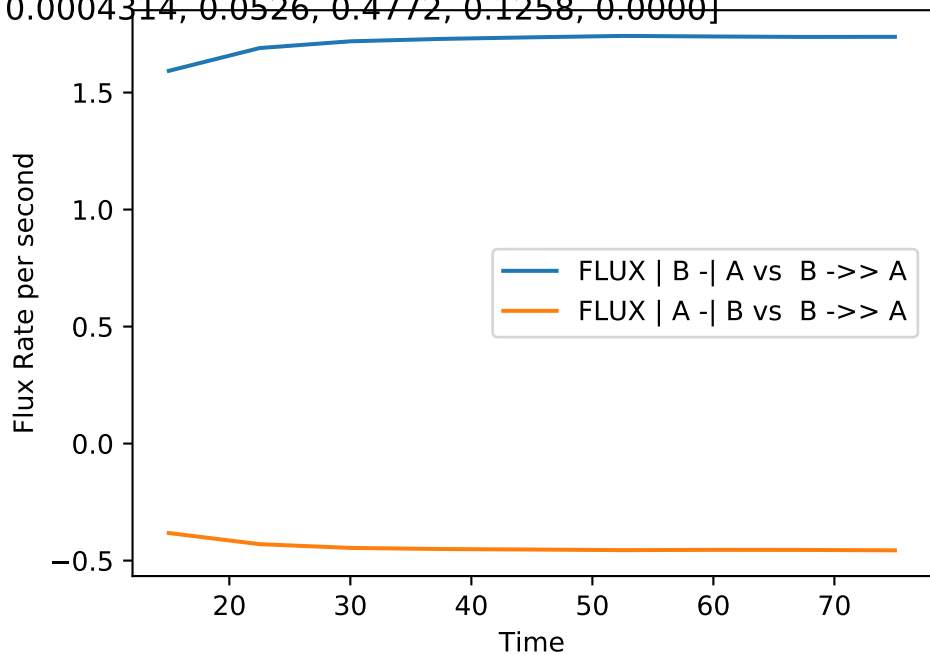
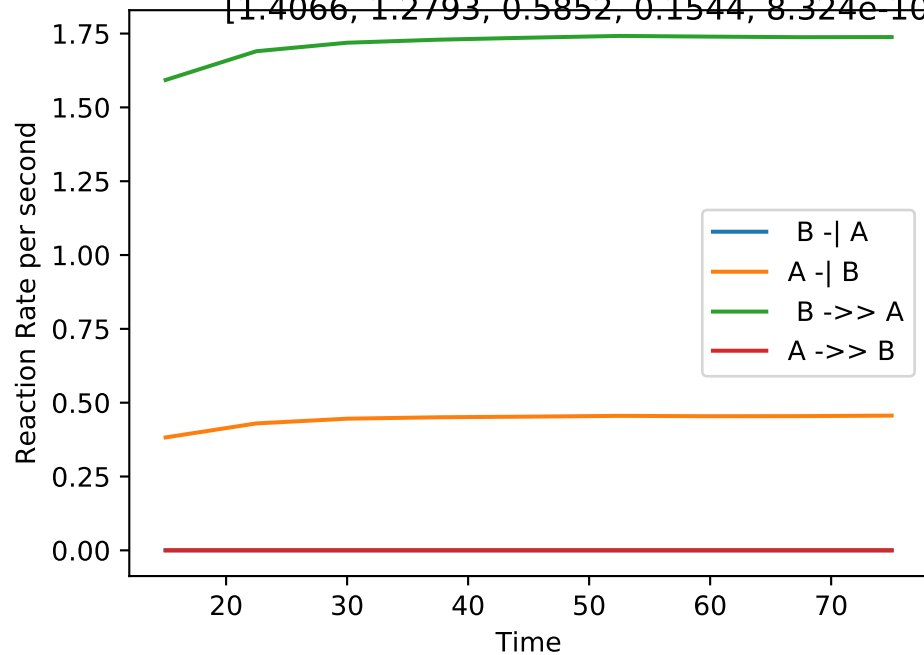
Double_up | MB-LLS Double_up(#31):

[1.8590, 1.4291, 0.3390, 0.4411, 8.585e-09, 2.774e-09, 0.0115, 0.2646, 0.3599, 0.0274]



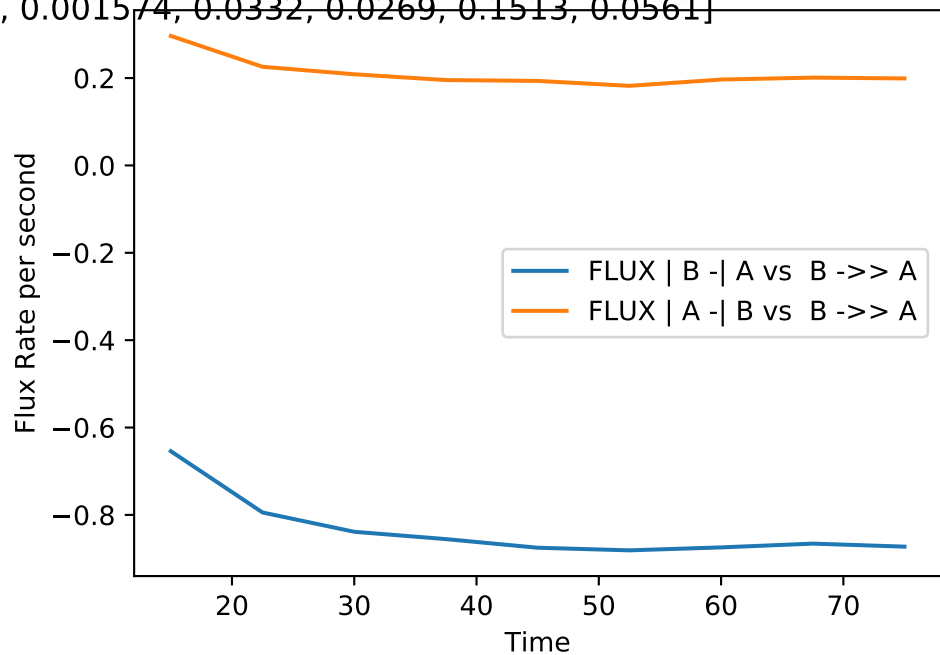
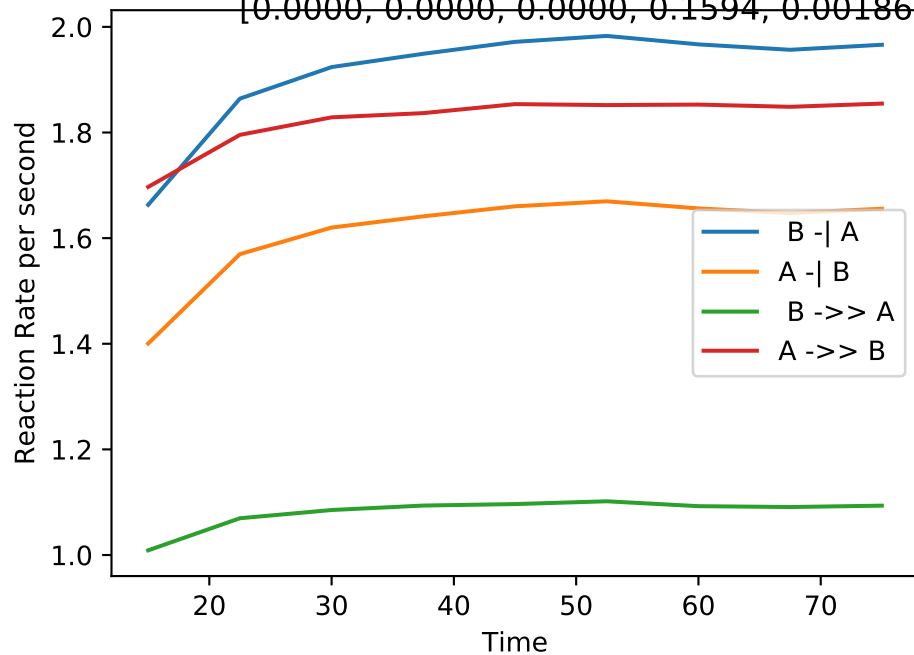
Double_up | MB-LLS Double_up(#32):

[1.4066, 1.2793, 0.5852, 0.1544, 8.324e-10, 0.0004314, 0.0526, 0.4772, 0.1258, 0.0000]



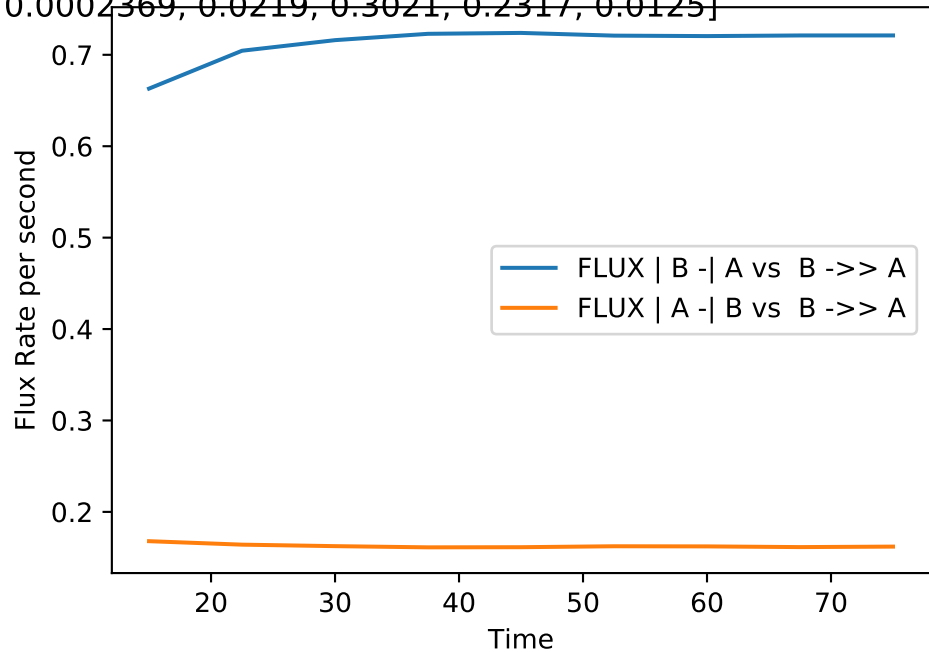
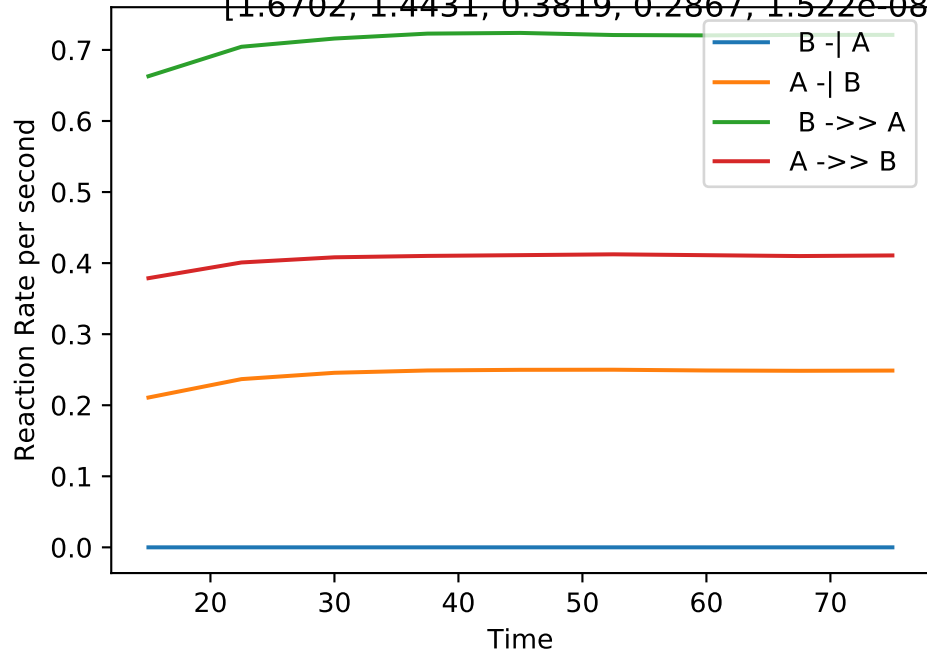
Double_up | MB-LLS Double_up(#33):

[0.0000, 0.0000, 0.0000, 0.1594, 0.001869, 0.001574, 0.0332, 0.0269, 0.1513, 0.0561]



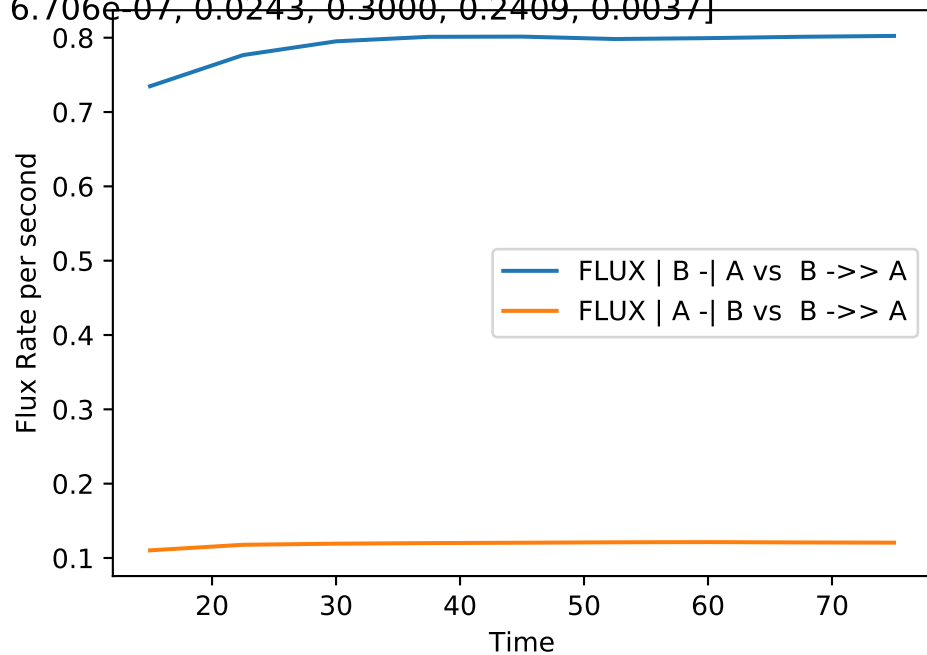
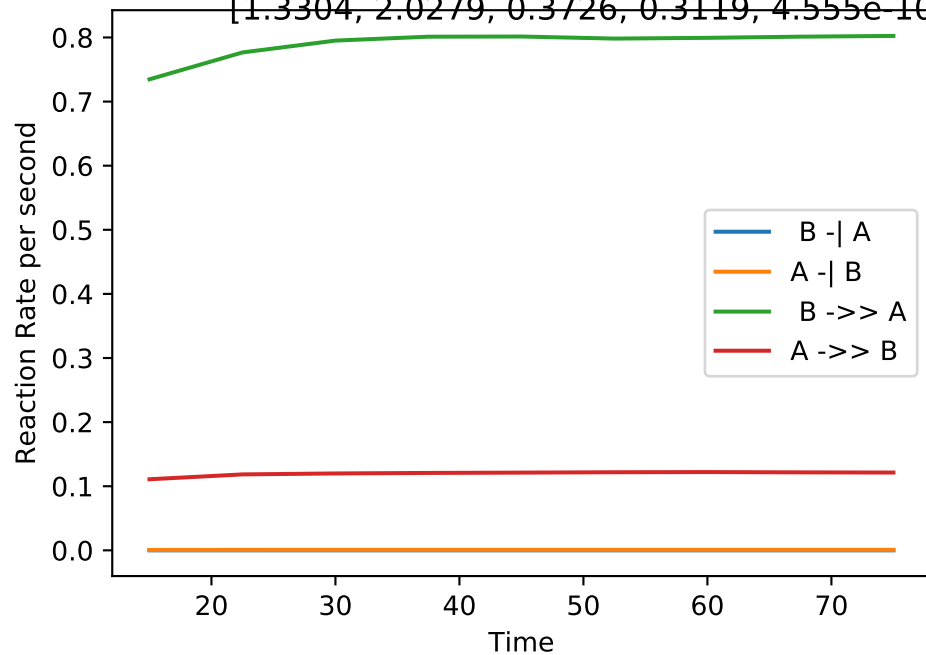
Double_up | MB-LLS Double_up(#34):

[1.6702, 1.4431, 0.3819, 0.2867, 1.522e-08, 0.0002369, 0.0219, 0.3021, 0.2317, 0.0125]



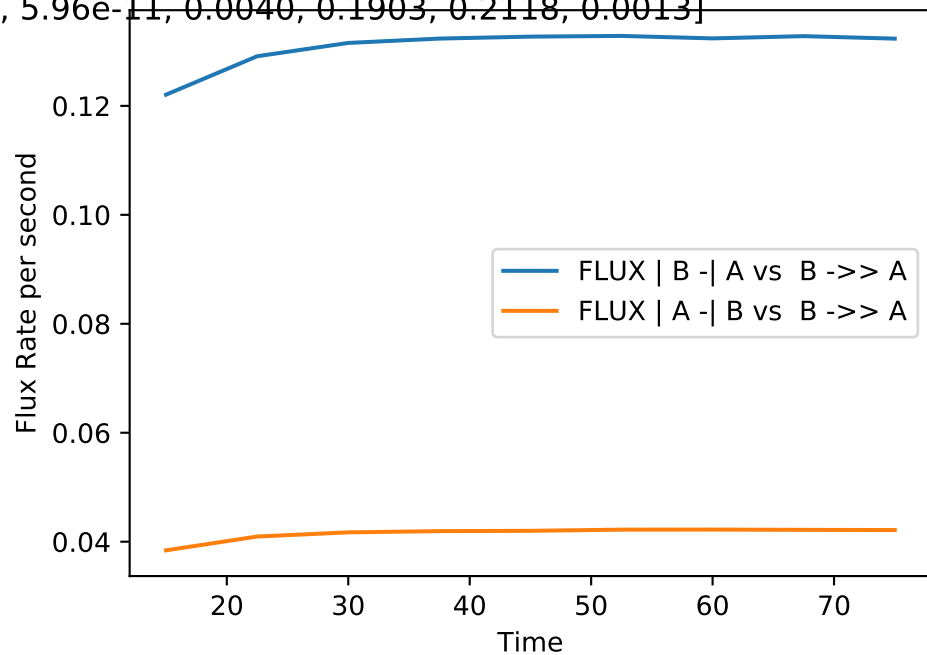
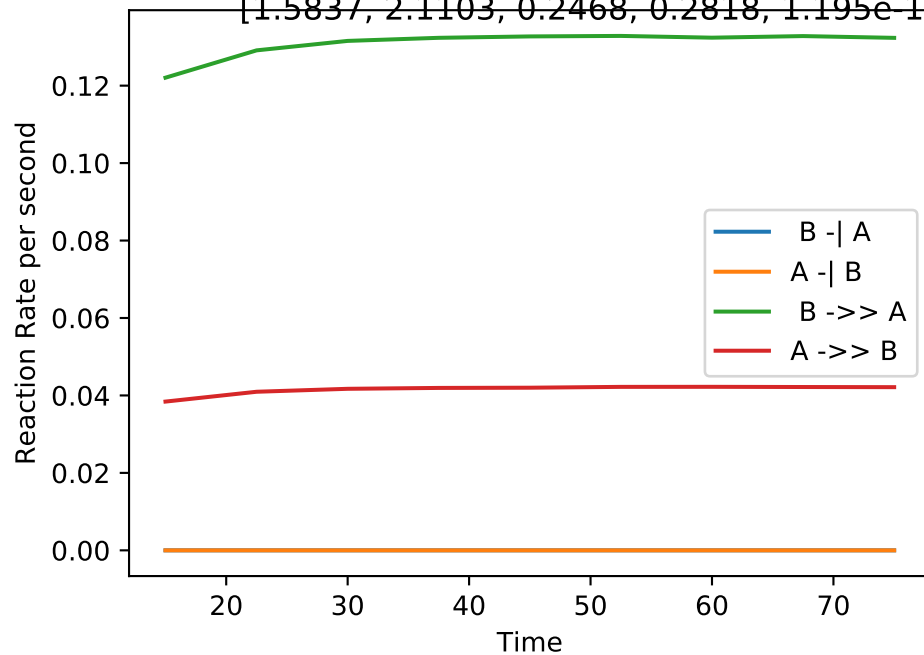
Double_up | MB-LLS Double_up(#35):

[1.3304, 2.0279, 0.3726, 0.3119, 4.555e-10, 6.706e-07, 0.0243, 0.3000, 0.2409, 0.0037]



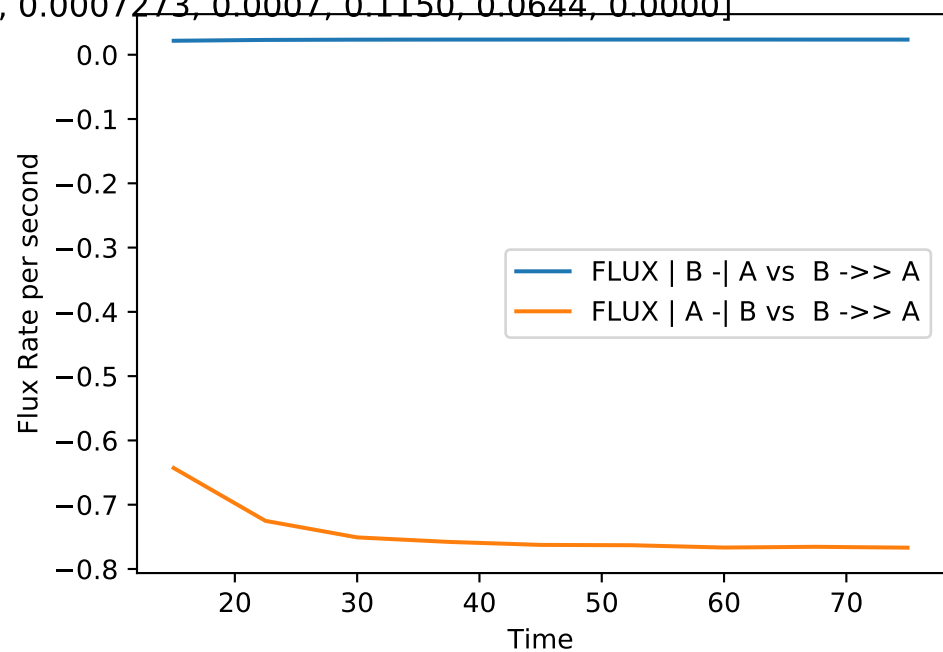
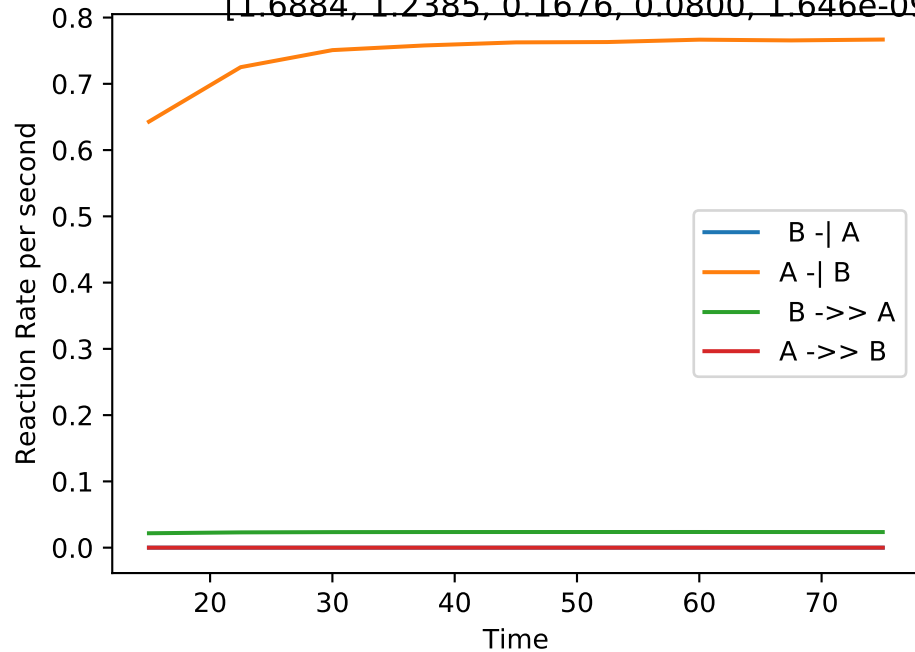
Double_up | MB-LLS Double_up(#36):

[1.5837, 2.1103, 0.2468, 0.2818, 1.195e-10, 5.96e-11, 0.0040, 0.1903, 0.2118, 0.0013]



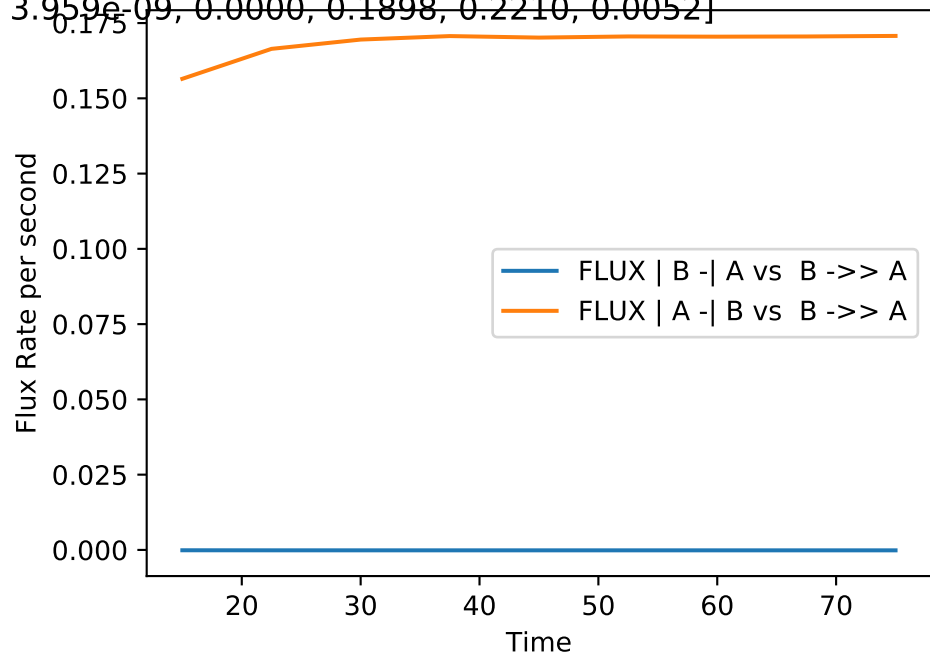
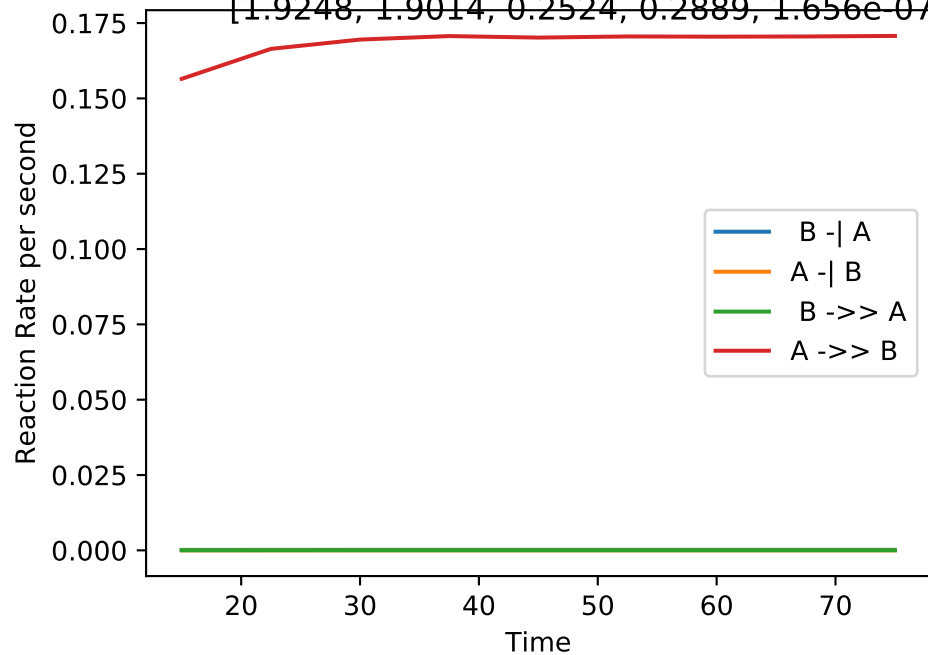
Double_up | MB-LLS Double_up(#37):

[1.6884, 1.2385, 0.1676, 0.0800, 1.646e-09, 0.0007273, 0.0007, 0.1150, 0.0644, 0.0000]



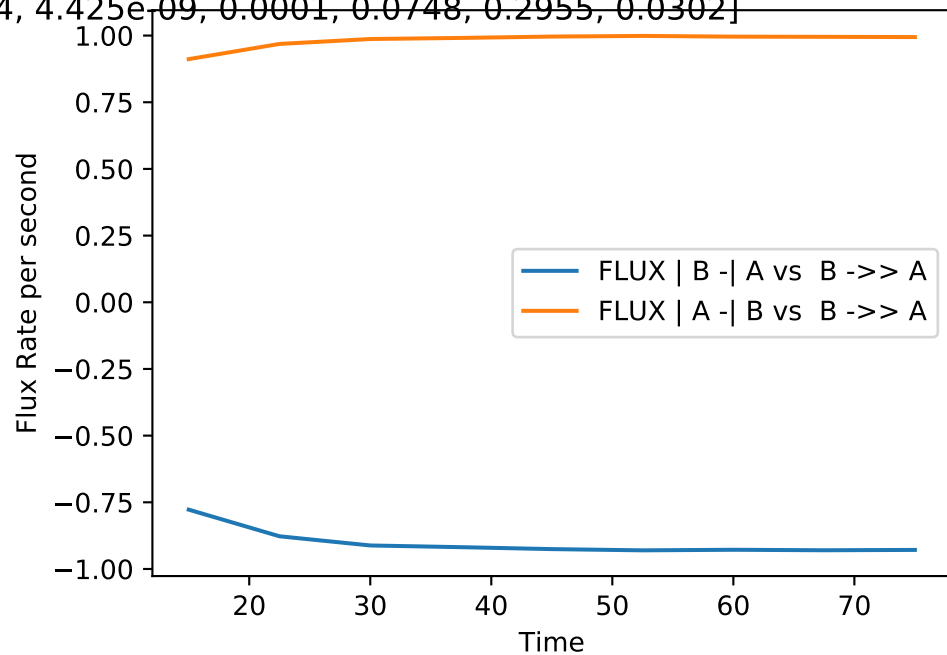
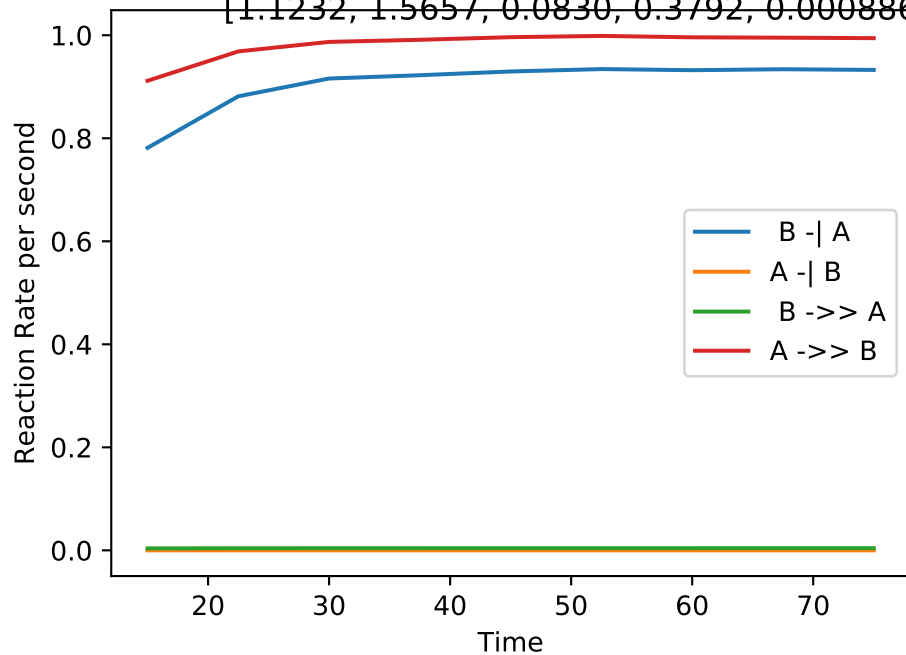
Double_up | MB-LLS Double_up(#38):

[1.9248, 1.9014, 0.2524, 0.2889, 1.656e-07, 3.959e-09, 0.0000, 0.1898, 0.2210, 0.0052]



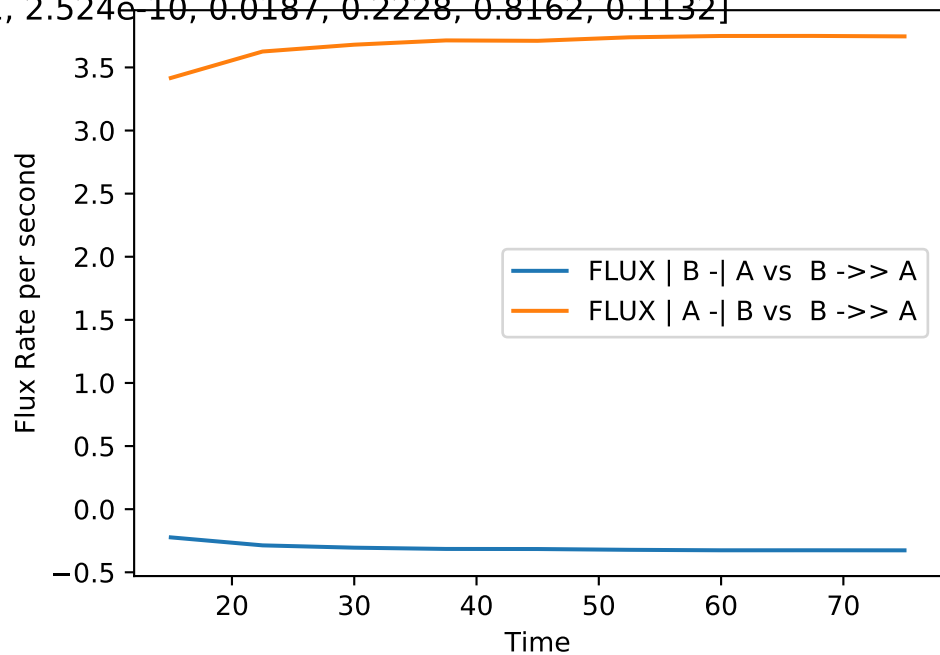
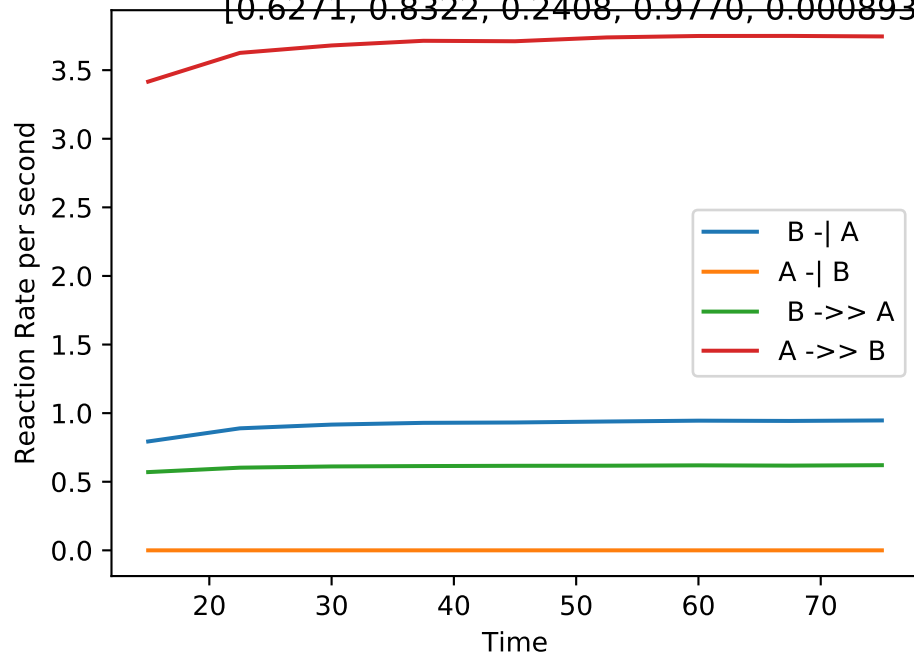
Double_up | MB-LLS Double_up(#39):

[1.1232, 1.5657, 0.0830, 0.3792, 0.0008864, 4.425e-09, 0.0001, 0.0748, 0.2955, 0.0302]



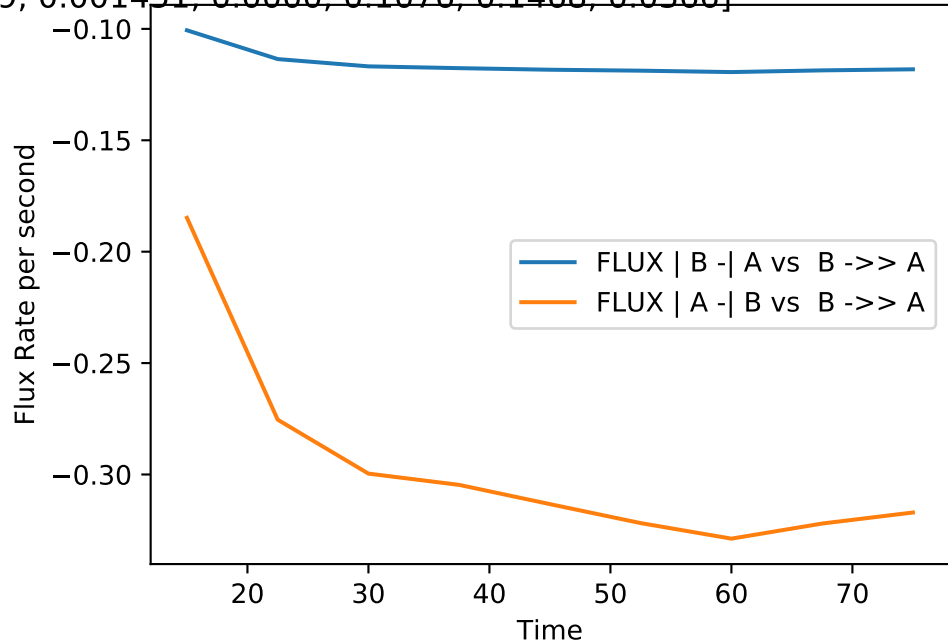
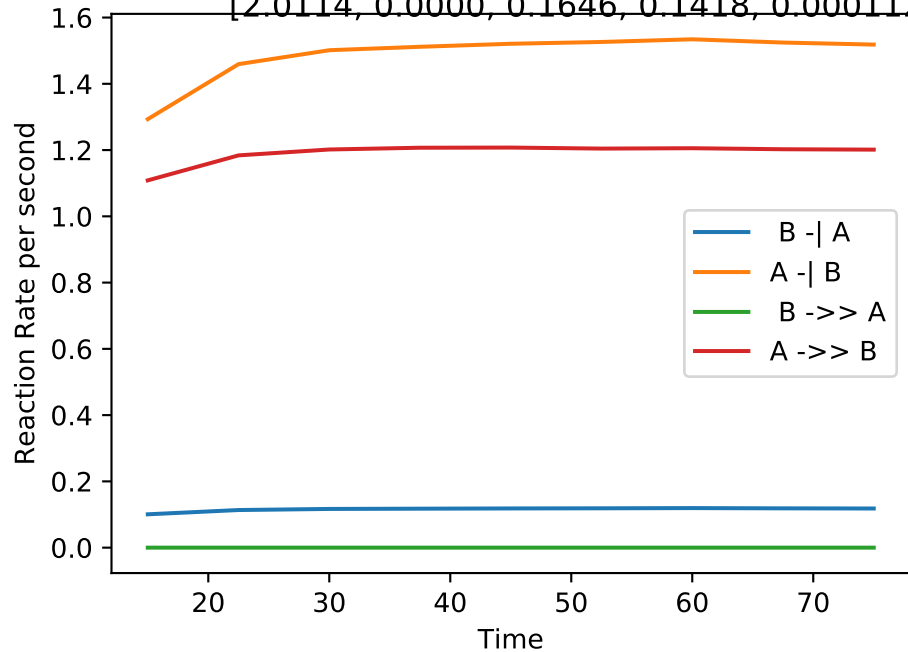
Double_up | MB-LLS Double_up(#40):

[0.6271, 0.8322, 0.2408, 0.9770, 0.0008931, 2.524e-10, 0.0187, 0.2228, 0.8162, 0.1132]



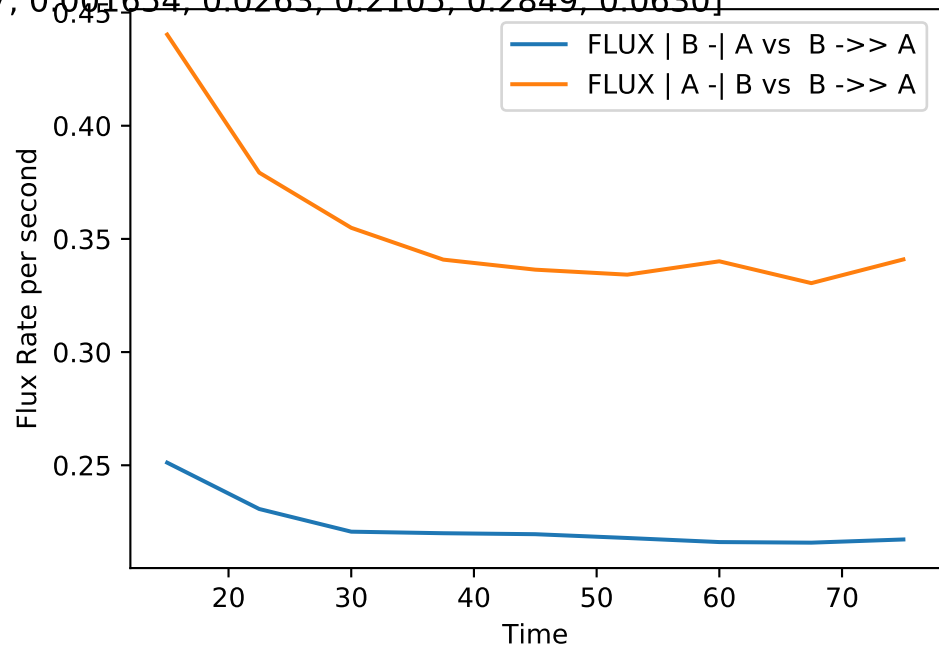
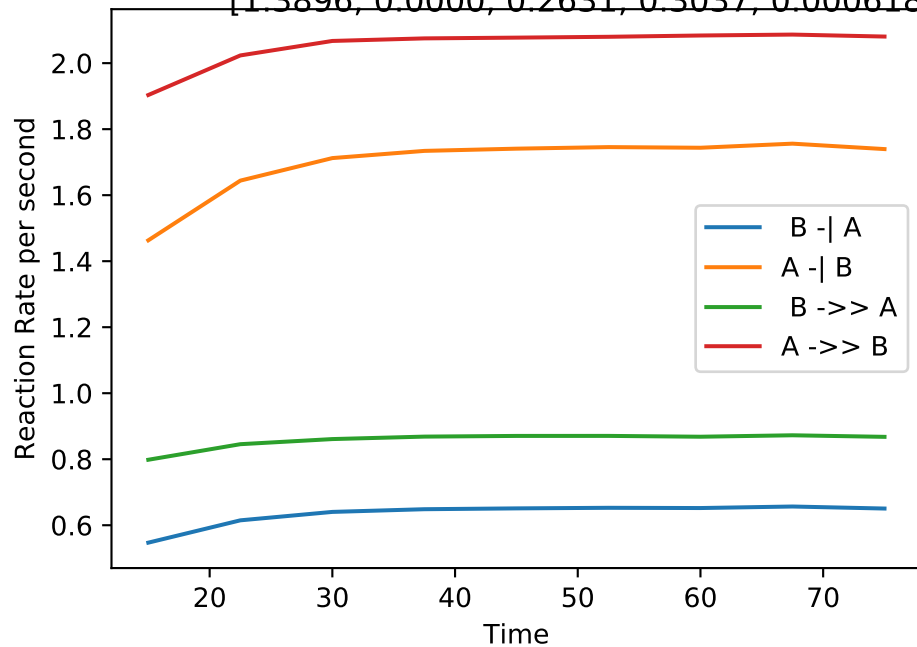
Double_up | MB-LLS Double_up(#41):

[2.0114, 0.0000, 0.1646, 0.1418, 0.0001129, 0.001451, 0.0000, 0.1076, 0.1468, 0.0366]



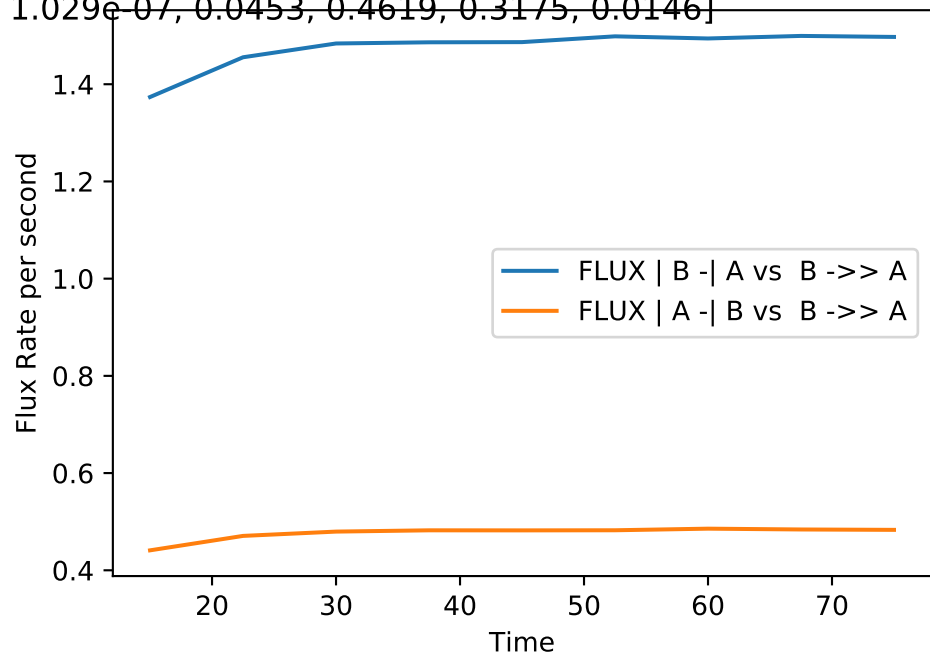
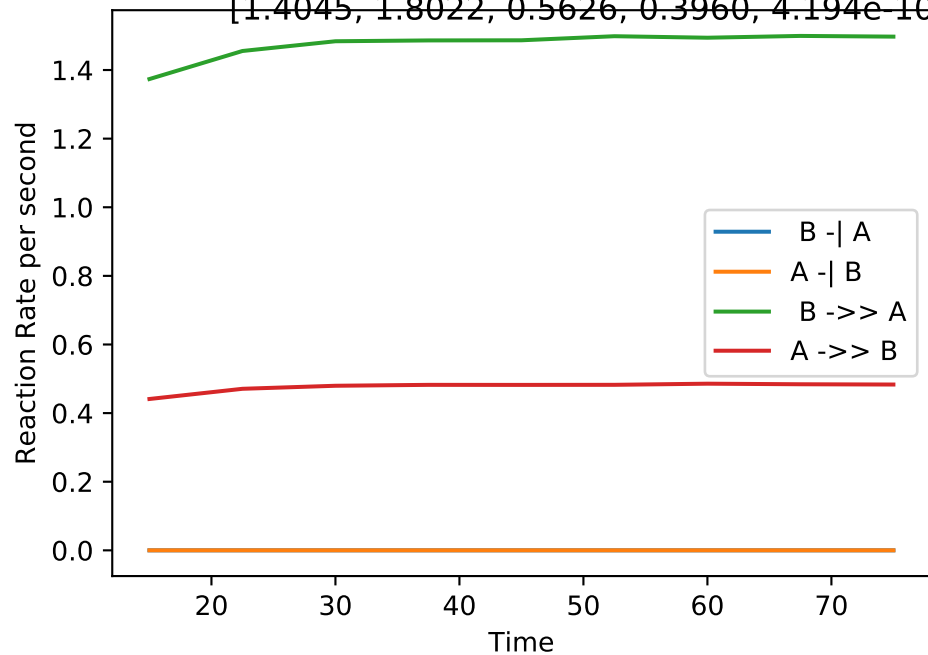
Double_up | MB-LLS Double_up(#42):

[1.3896, 0.0000, 0.2631, 0.3037, 0.0006187, 0.001654, 0.0263, 0.2105, 0.2849, 0.0630]



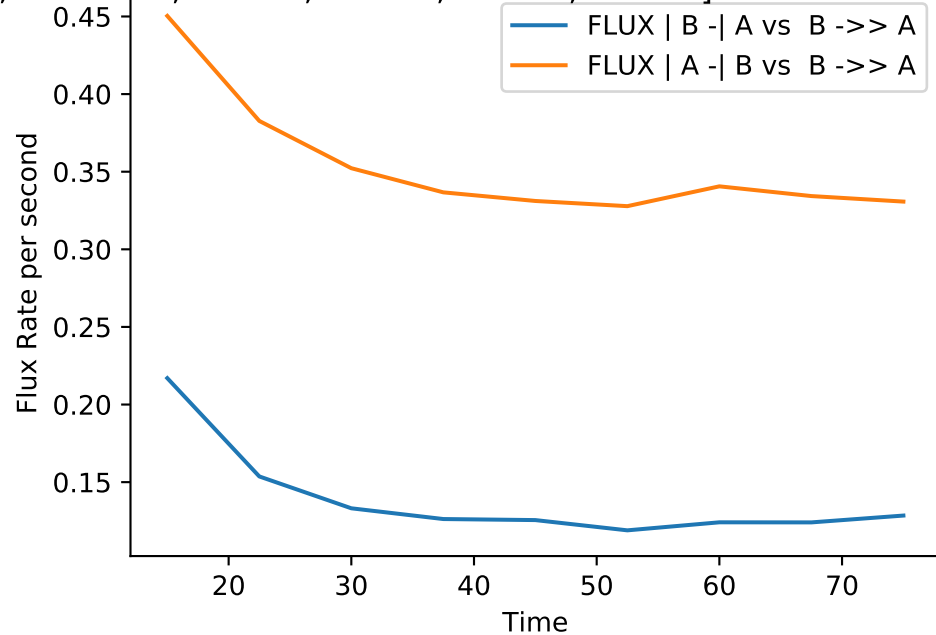
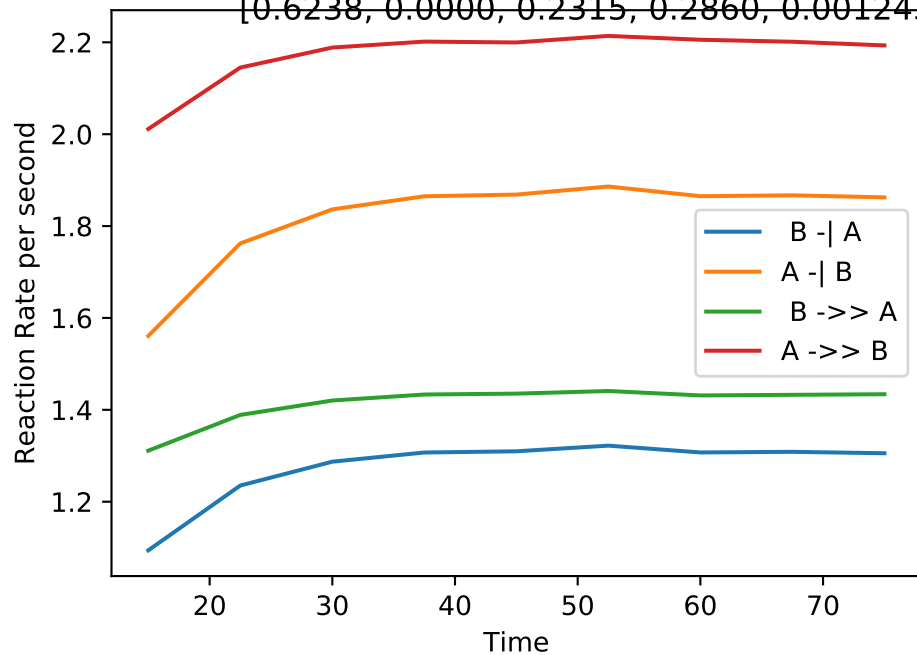
Double_up | MB-LLS Double_up(#43):

[1.4045, 1.8022, 0.5626, 0.3960, 4.194e-10, 1.029e-07, 0.0453, 0.4619, 0.3175, 0.0146]



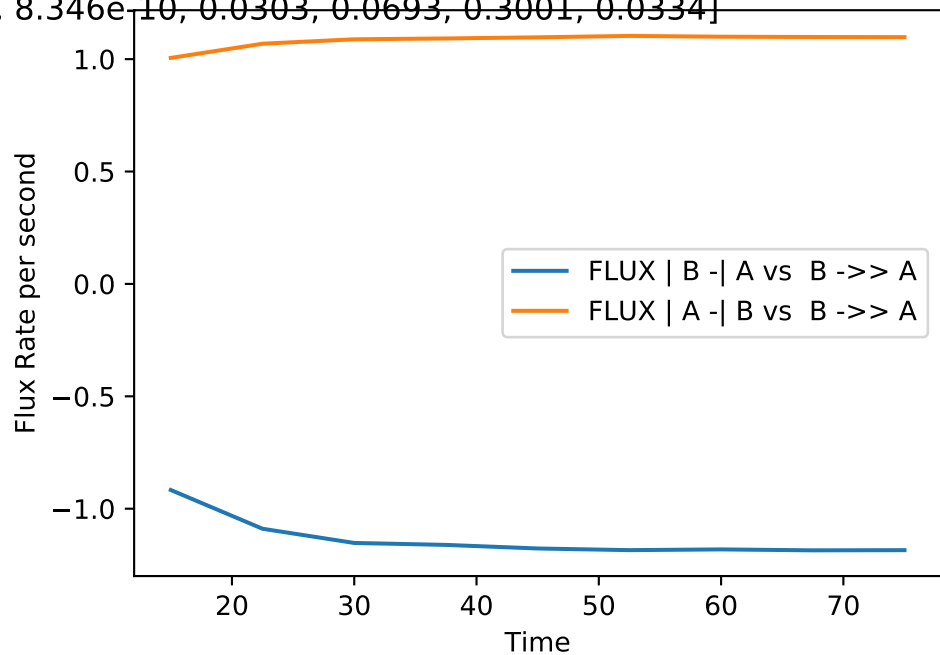
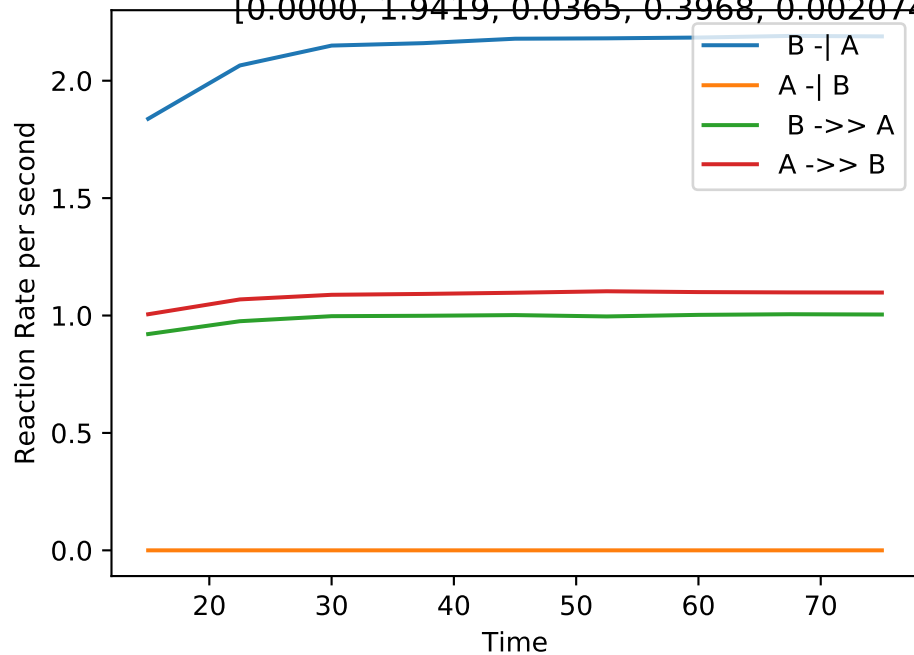
Double_up | MB-LLS Double_up(#44):

[0.6238, 0.0000, 0.2315, 0.2860, 0.001243, 0.001774, 0.0434, 0.2044, 0.2687, 0.0668]



Double_up | MB-LLS Double_up(#45):

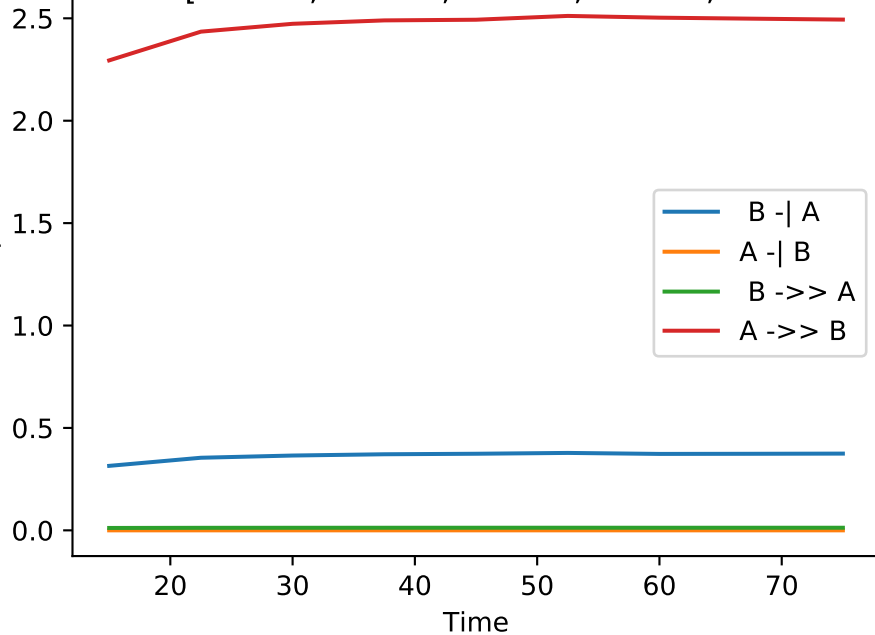
[0.0000, 1.9419, 0.0365, 0.3968, 0.002074, 8.346e-10, 0.0303, 0.0693, 0.3001, 0.0334]



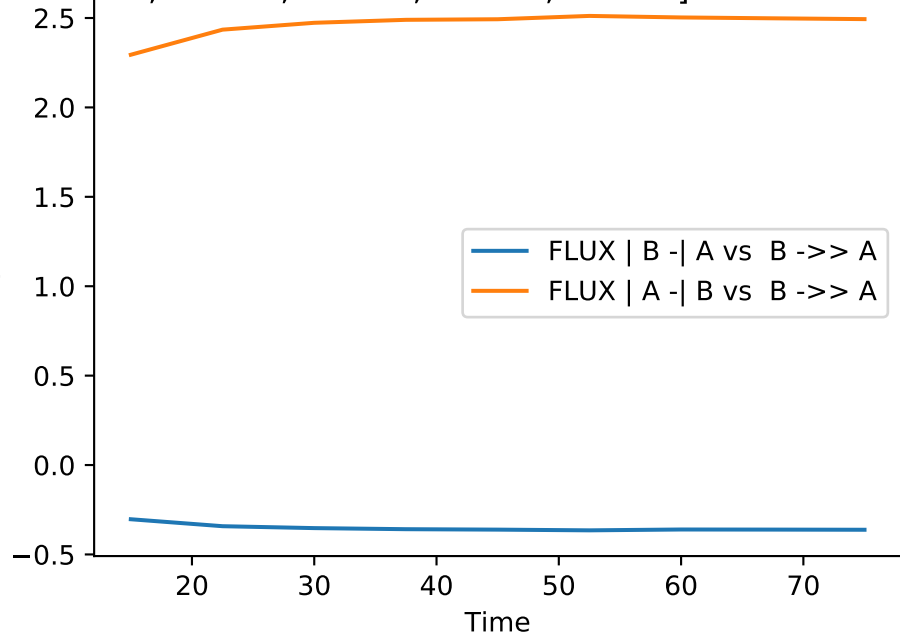
Double_up | MB-LLS Double_up(#46):

[1.4613, 0.8028, 0.1915, 0.7270, 0.0003553, 2.448e-09, 0.0004, 0.1538, 0.6092, 0.0758]

Reaction Rate per second

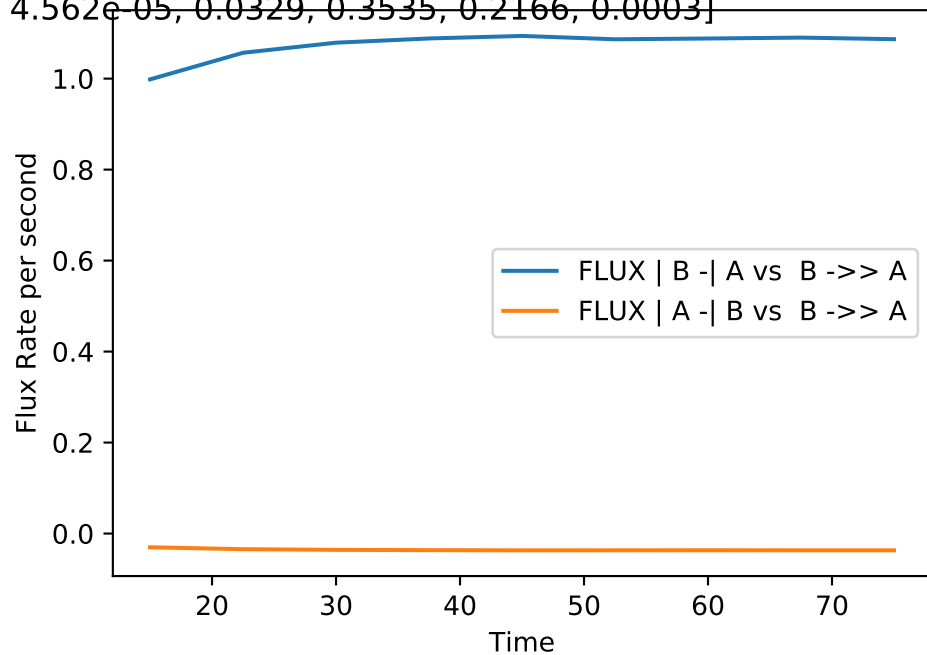
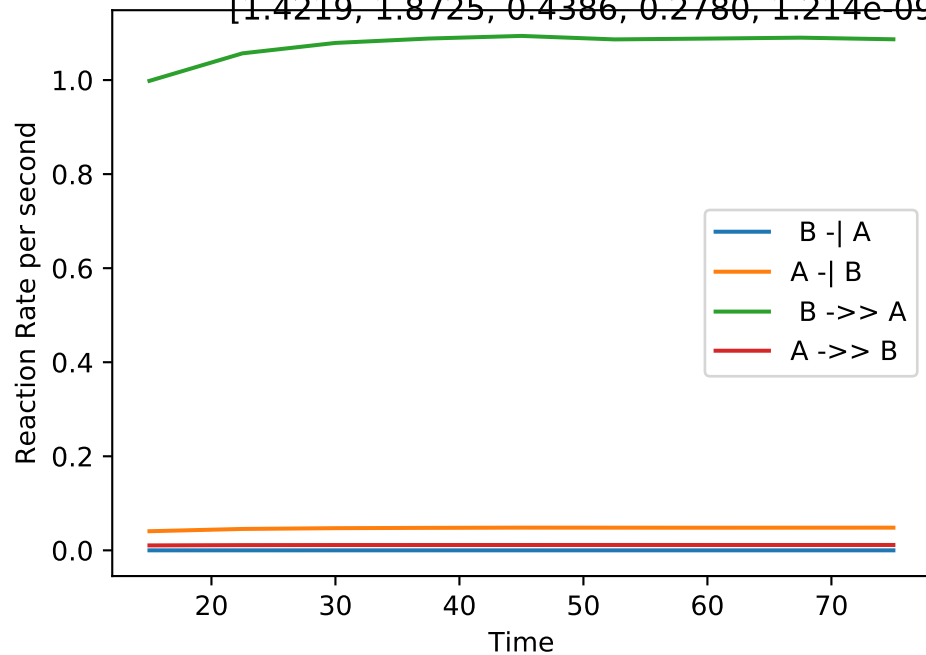


Flux Rate per second



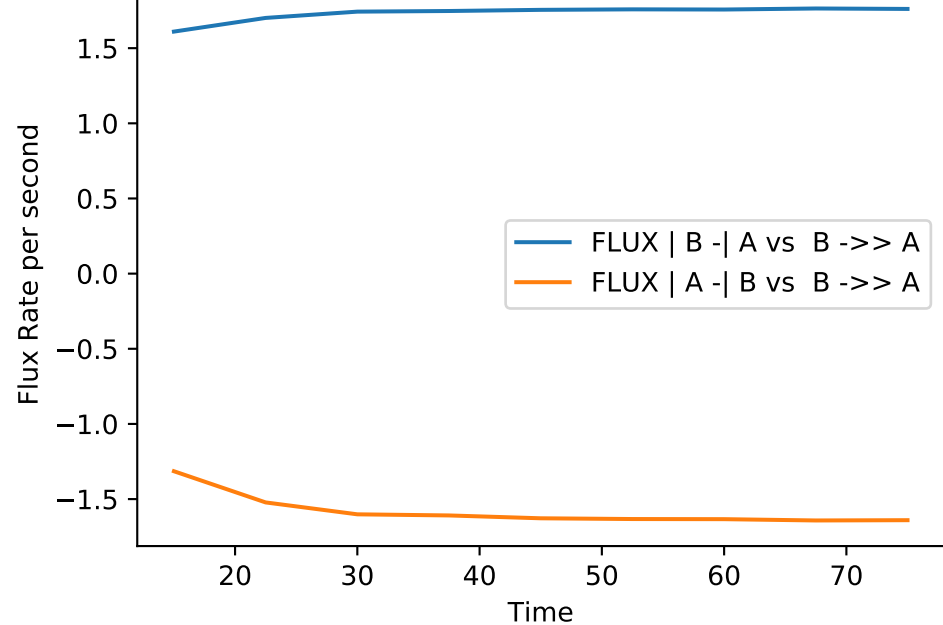
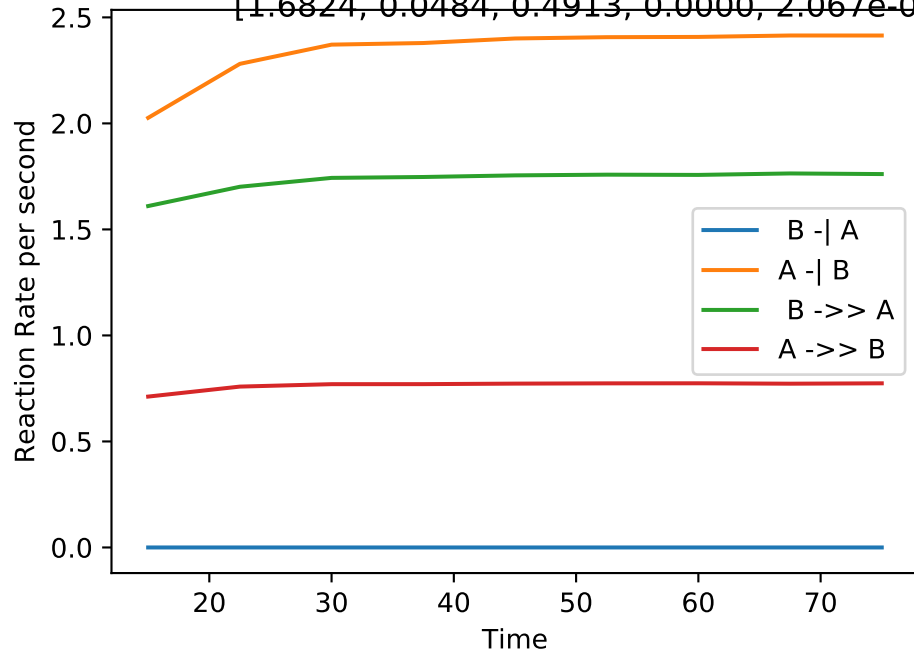
Double_up | MB-LLS Double_up(#47):

[1.4219, 1.8725, 0.4386, 0.2780, 1.214e-09, 4.562e-05, 0.0329, 0.3535, 0.2166, 0.0003]



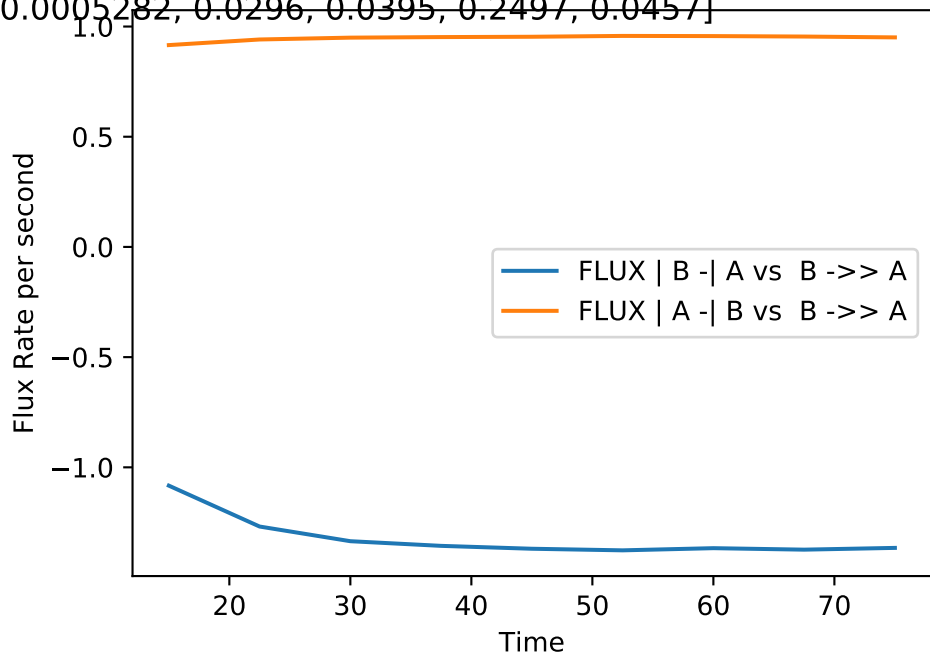
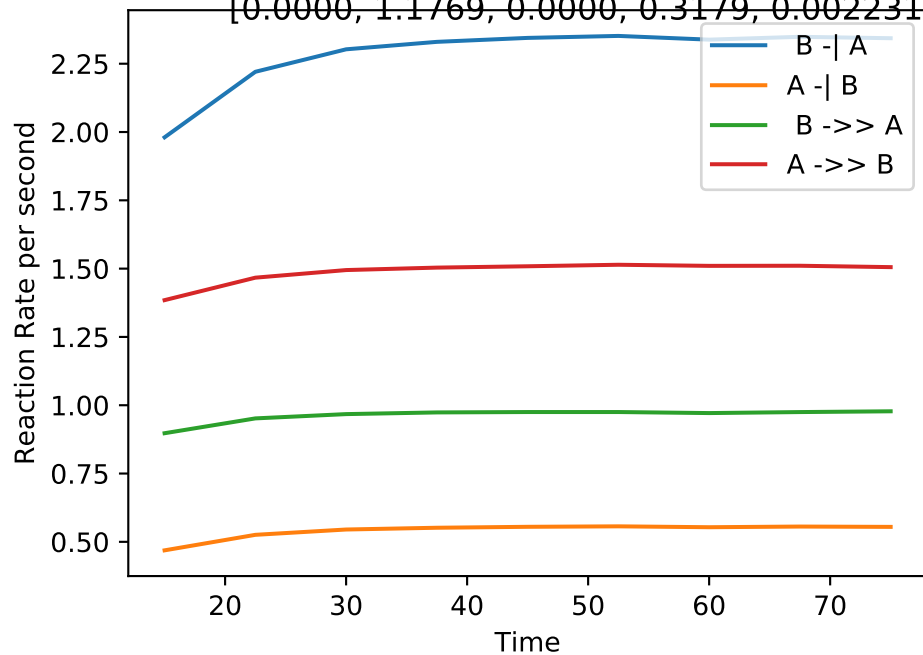
Double_up | MB-LLS Double_up(#48):

[1.6824, 0.0484, 0.4913, 0.0000, 2.067e-09, 0.002293, 0.0534, 0.3807, 0.0450, 0.0235]



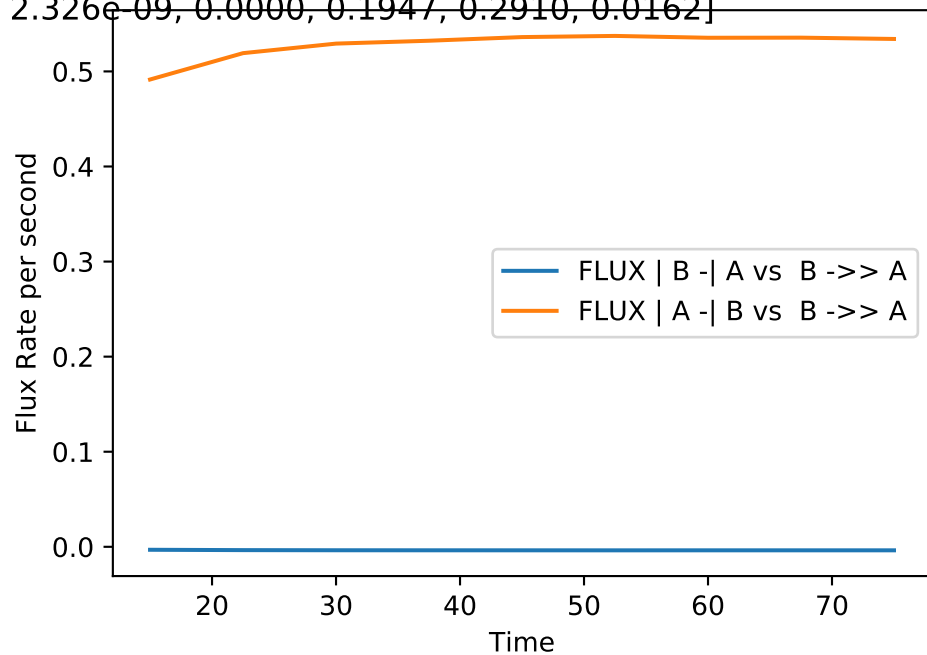
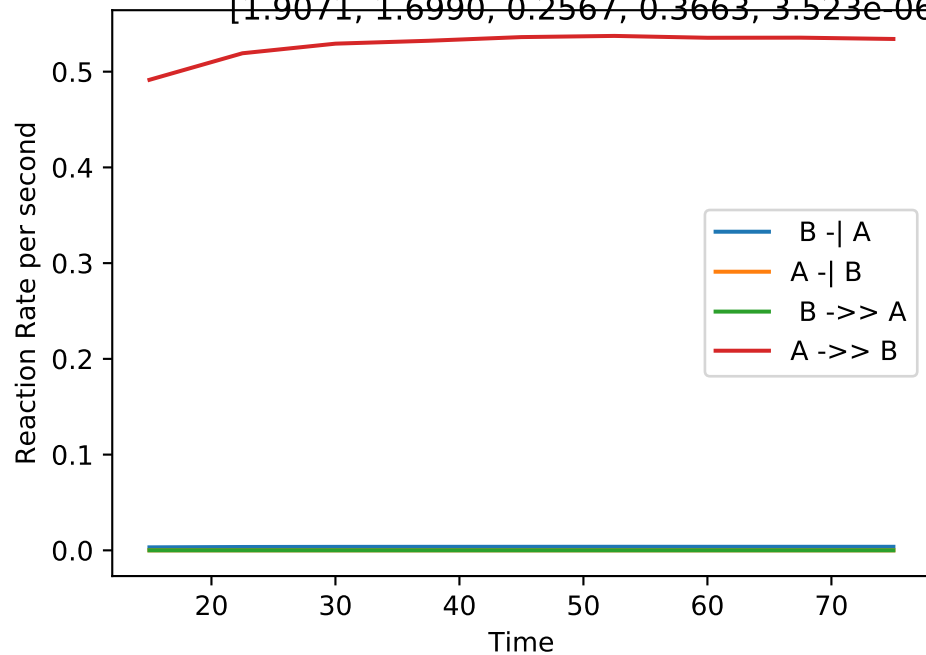
Double_up | MB-LLS Double_up(#49):

[0.0000, 1.1769, 0.0000, 0.3179, 0.002231, 0.0005282, 0.0296, 0.0395, 0.2497, 0.0457]



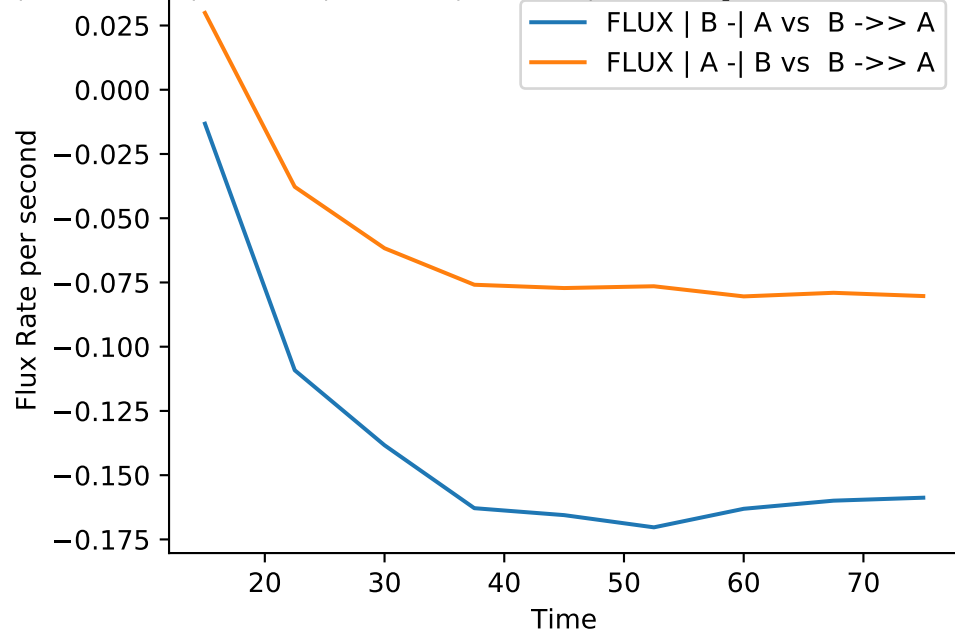
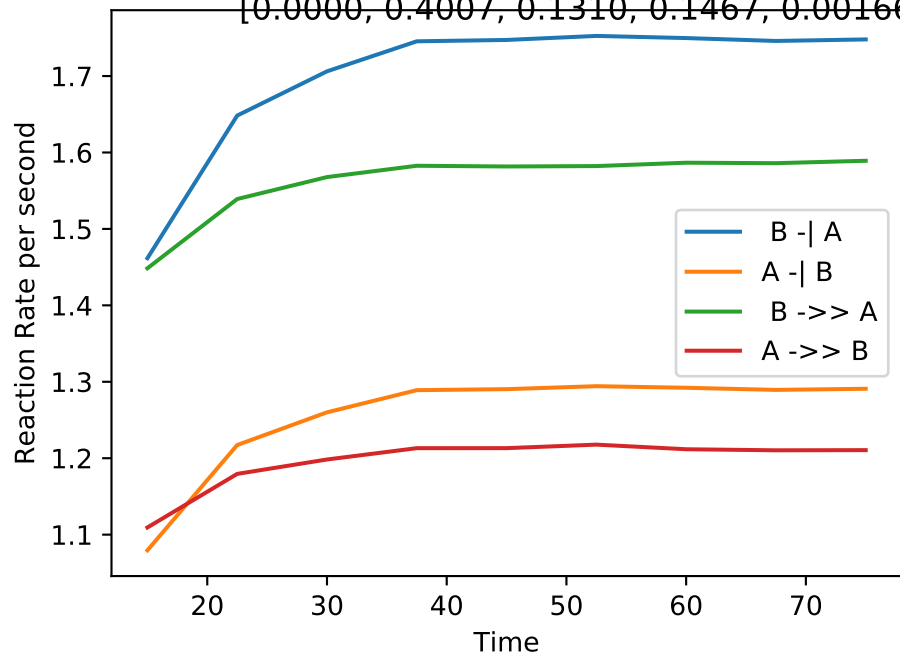
Double_up | MB-LLS Double_up(#50):

[1.9071, 1.6990, 0.2567, 0.3663, 3.523e-06, 2.326e-09, 0.0000, 0.1947, 0.2910, 0.0162]



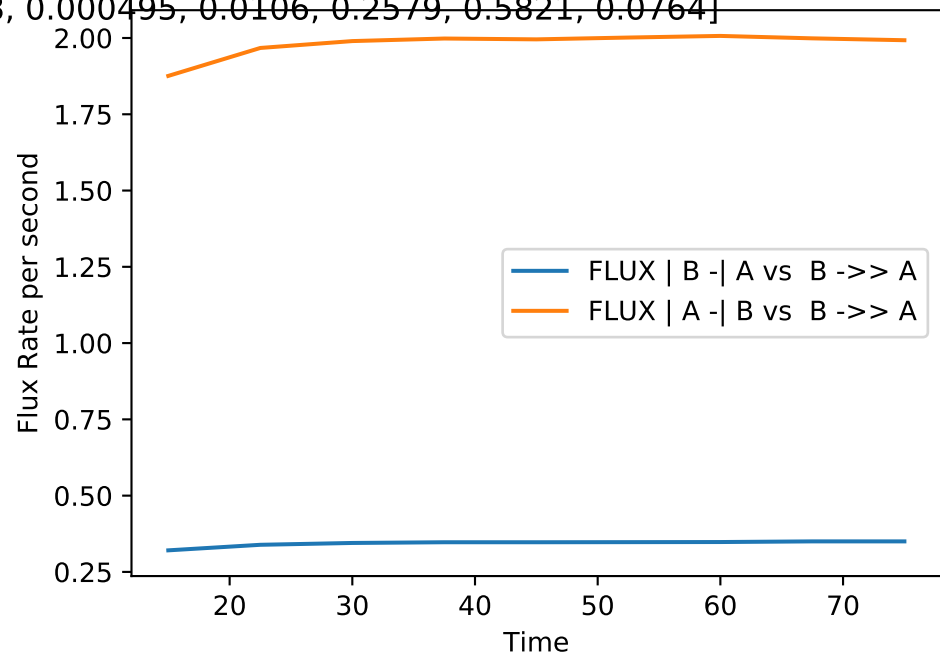
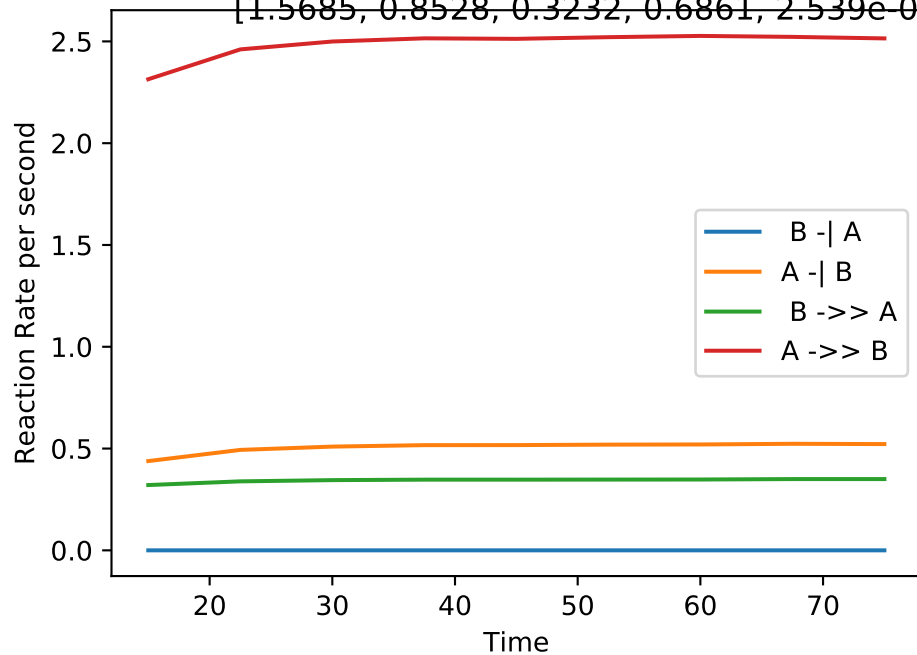
Double_up | MB-LLS Double_up(#51):

[0.0000, 0.4007, 0.1310, 0.1467, 0.001662, 0.001227, 0.0480, 0.1331, 0.1348, 0.0368]



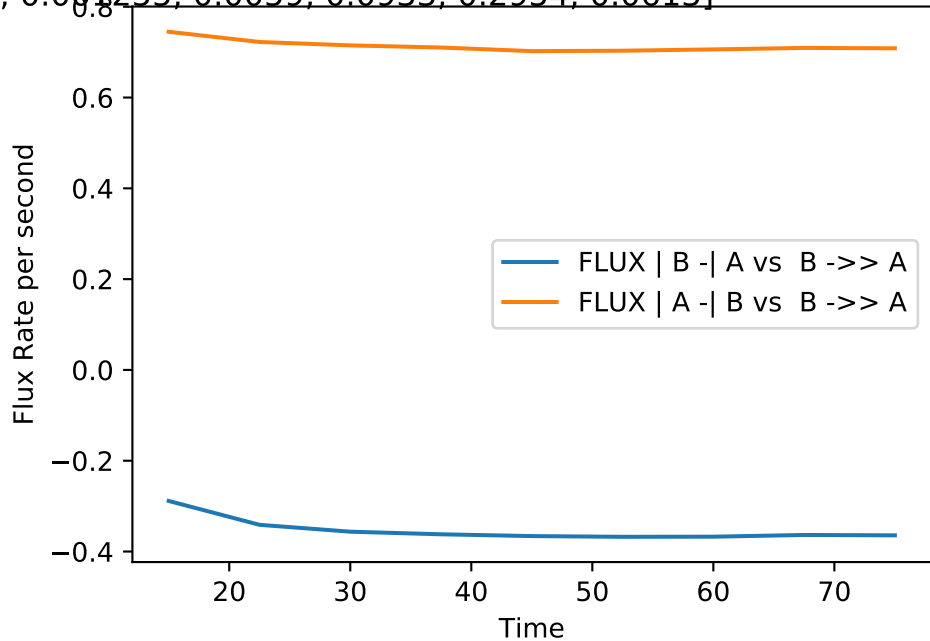
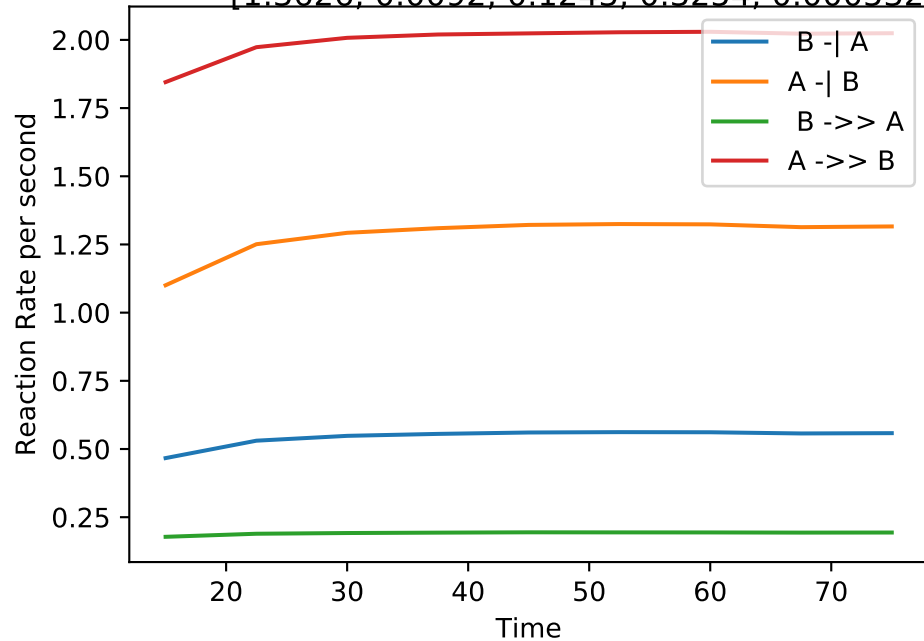
Double_up | MB-LLS Double_up(#52):

[1.5685, 0.8528, 0.3232, 0.6861, 2.539e-08, 0.000495, 0.0106, 0.2579, 0.5821, 0.0764]



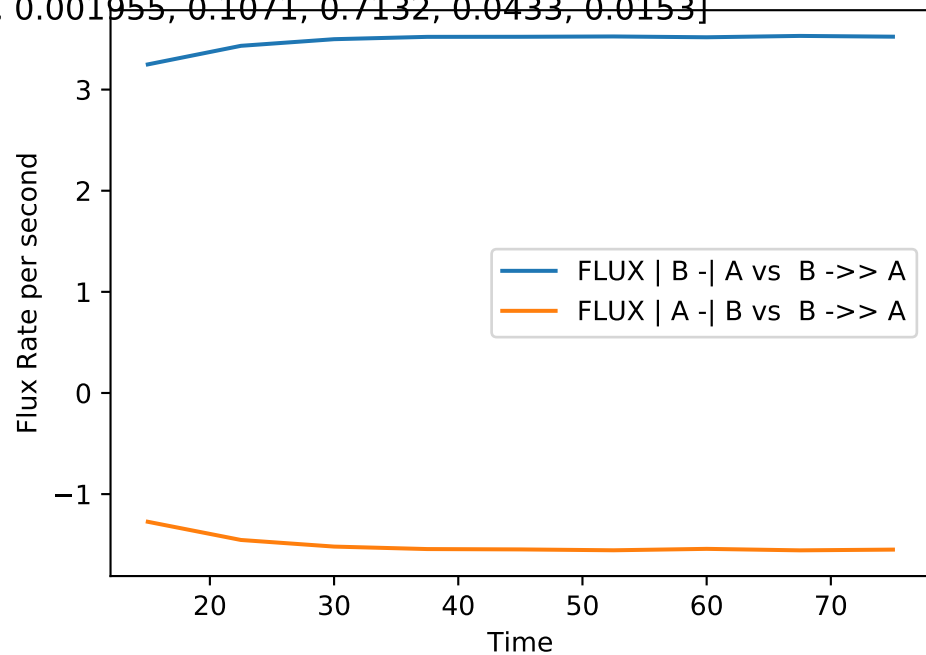
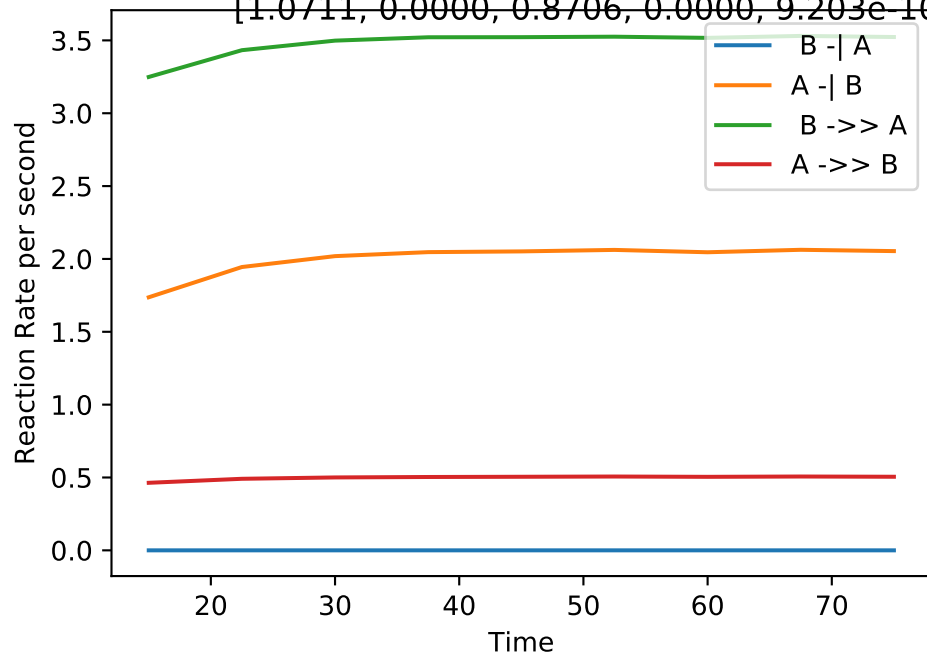
Double_up | MB-LLS Double_up(#53):

[1.3626, 0.0092, 0.1243, 0.3254, 0.0005321, 0.001255, 0.0059, 0.0933, 0.2954, 0.0613]



Double_up | MB-LLS Double_up(#54):

[1.0711, 0.0000, 0.8706, 0.0000, 9.203e-10, 0.001955, 0.1071, 0.7132, 0.0433, 0.0153]

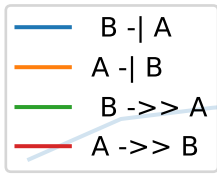


Double_up | MB-LLS Double_up(#55):

[0.4883, 0.0000, 0.3173, 0.1410, 0.0007173, 0.001355, 0.0494, 0.2699, 0.1429, 0.0370]

Reaction Rate per second

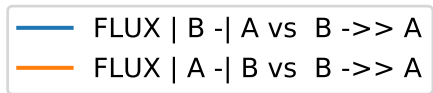
1.6
1.4
1.2
1.0
0.8
0.6



Time

Flux Rate per second

0.8
0.6
0.4
0.2
0.0
-0.2

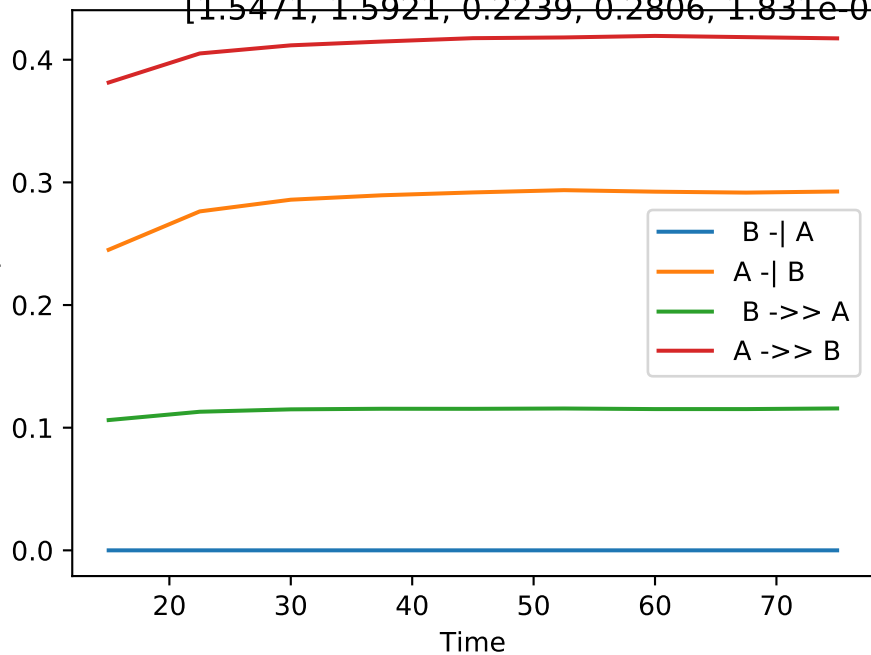


Time

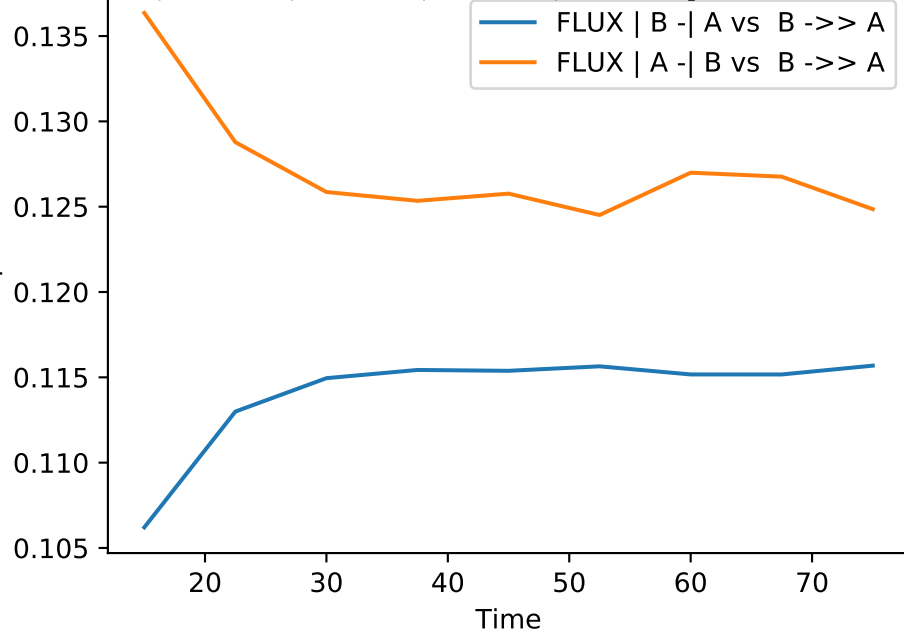
Double_up | MB-LLS Double_up(#56):

[1.5471, 1.5921, 0.2239, 0.2806, 1.831e-09, 0.0002771, 0.0035, 0.1701, 0.2230, 0.0126]

Reaction Rate per second

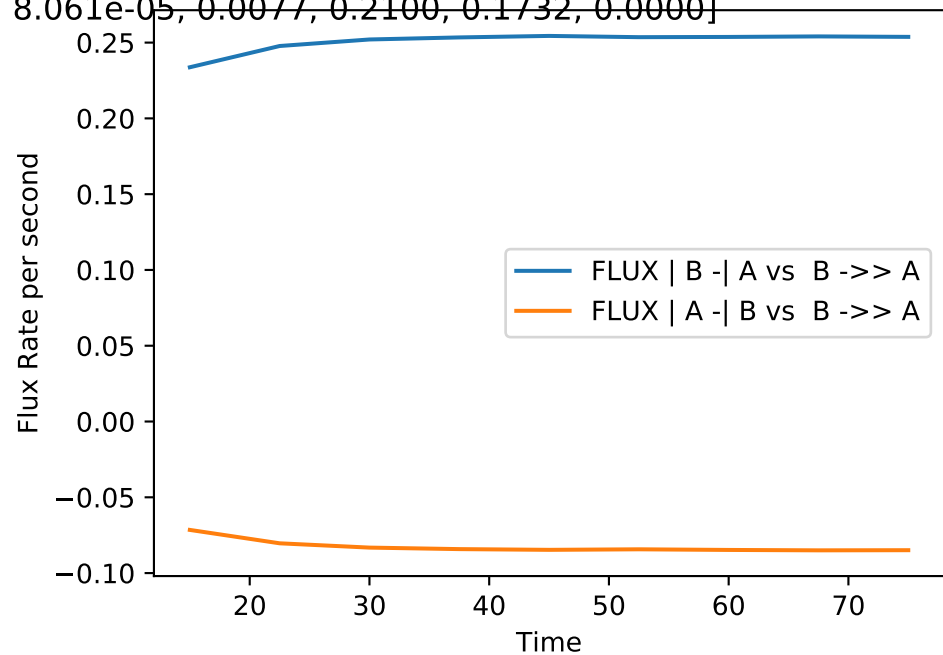
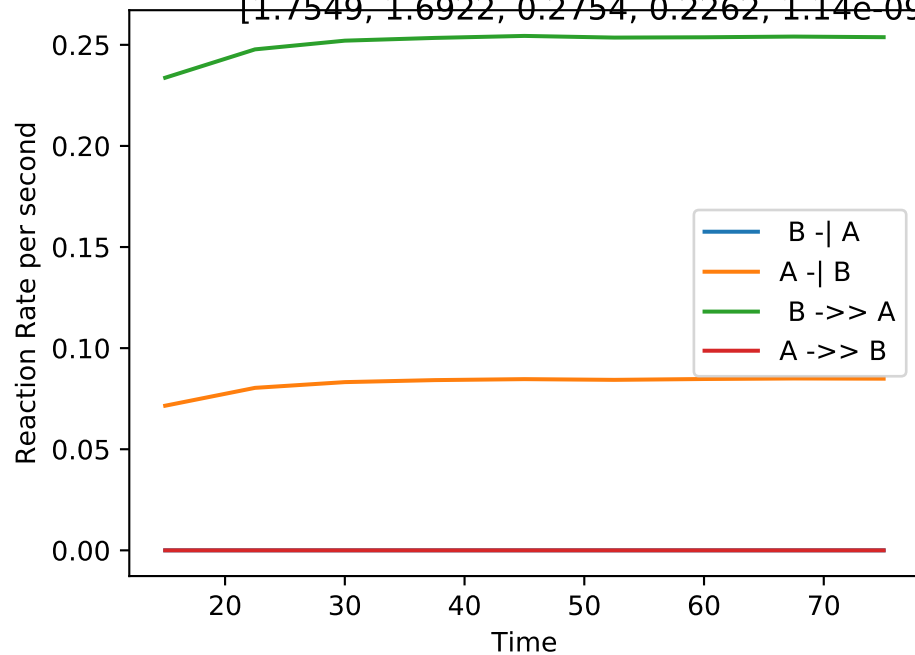


Flux Rate per second



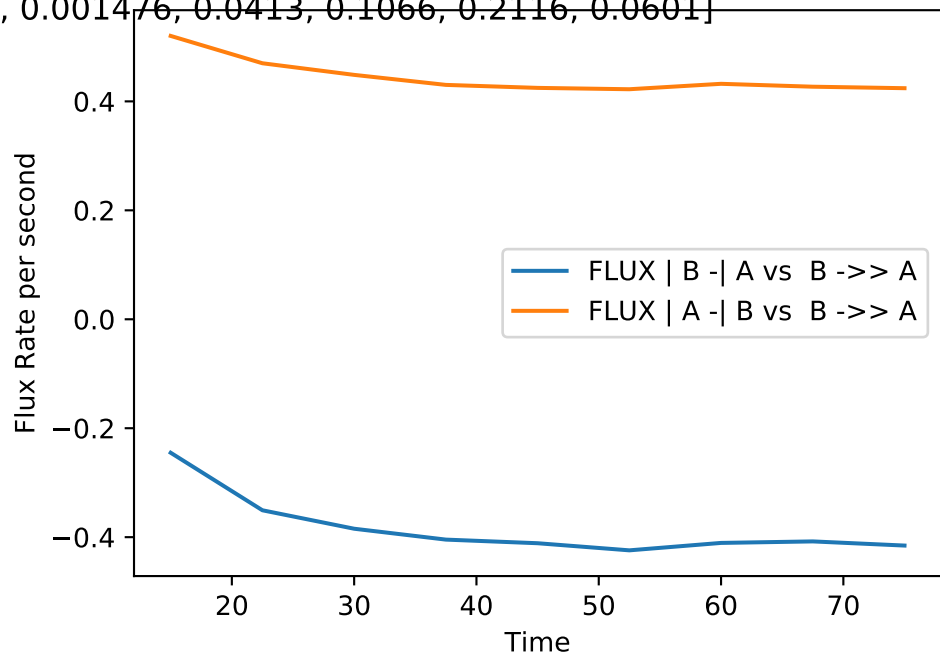
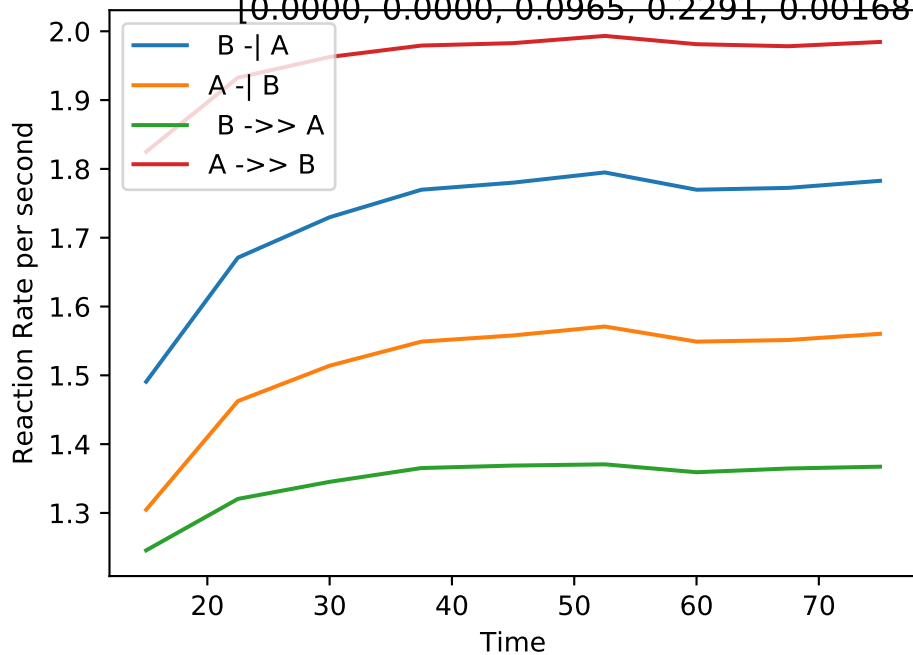
Double_up | MB-LLS Double_up(#57):

[1.7549, 1.6922, 0.2754, 0.2262, 1.14e-09, 8.061e-05, 0.0077, 0.2100, 0.1732, 0.0000]



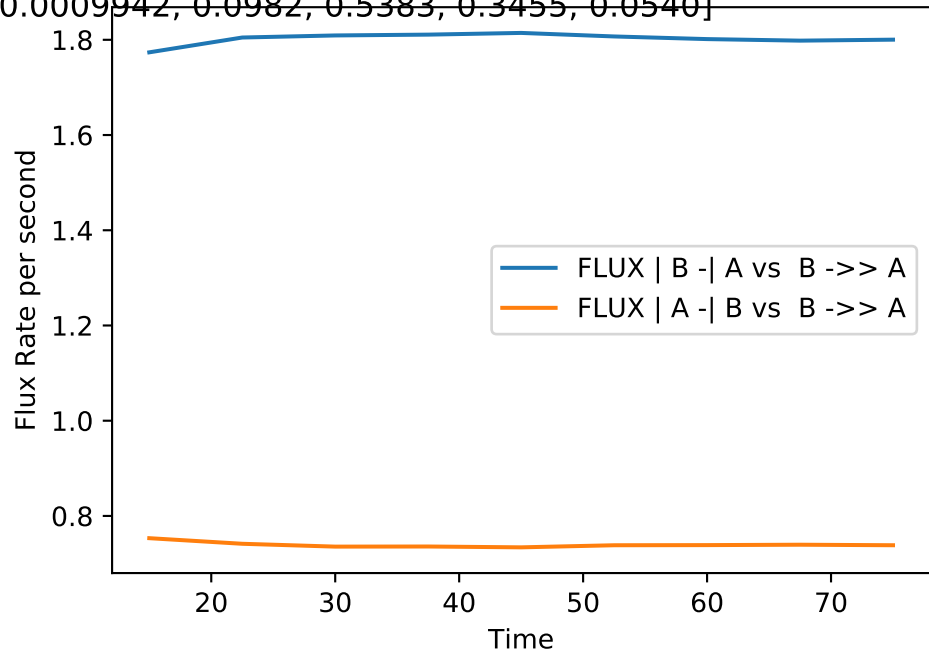
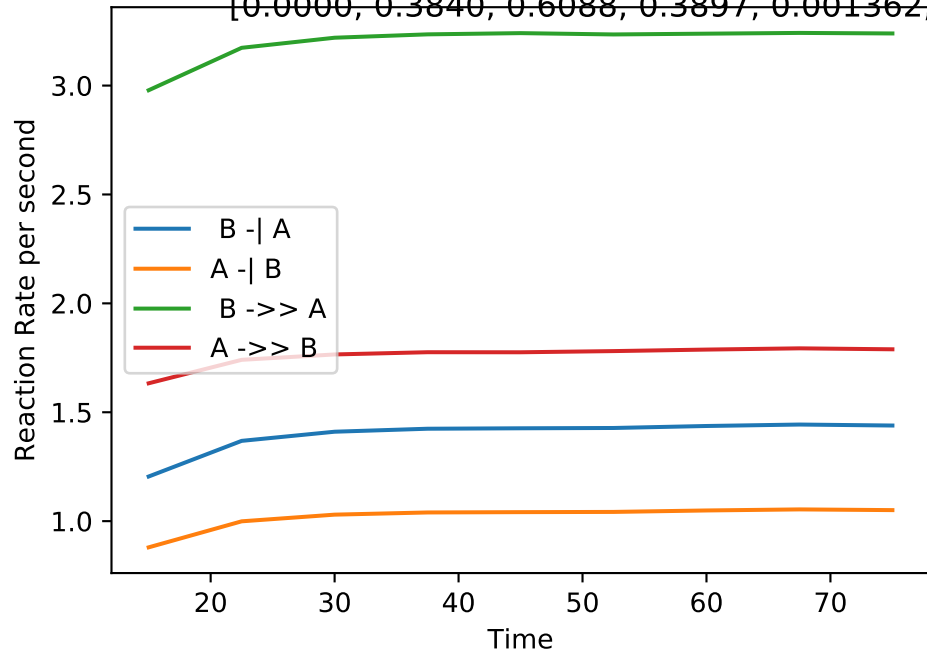
Double_up | MB-LLS Double_up(#58):

[0.0000, 0.0000, 0.0965, 0.2291, 0.001686, 0.001476, 0.0413, 0.1066, 0.2116, 0.0601]



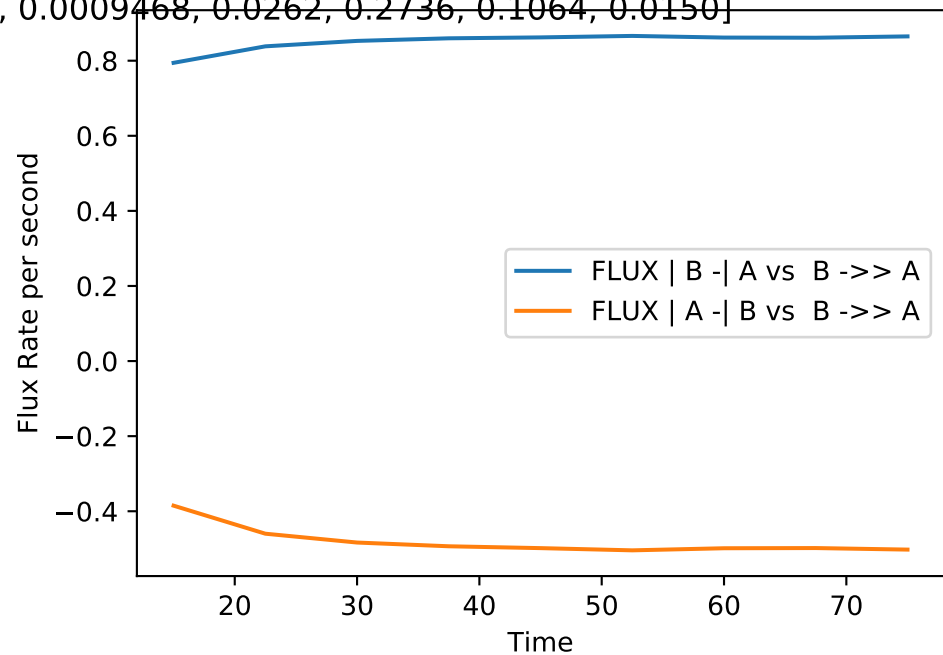
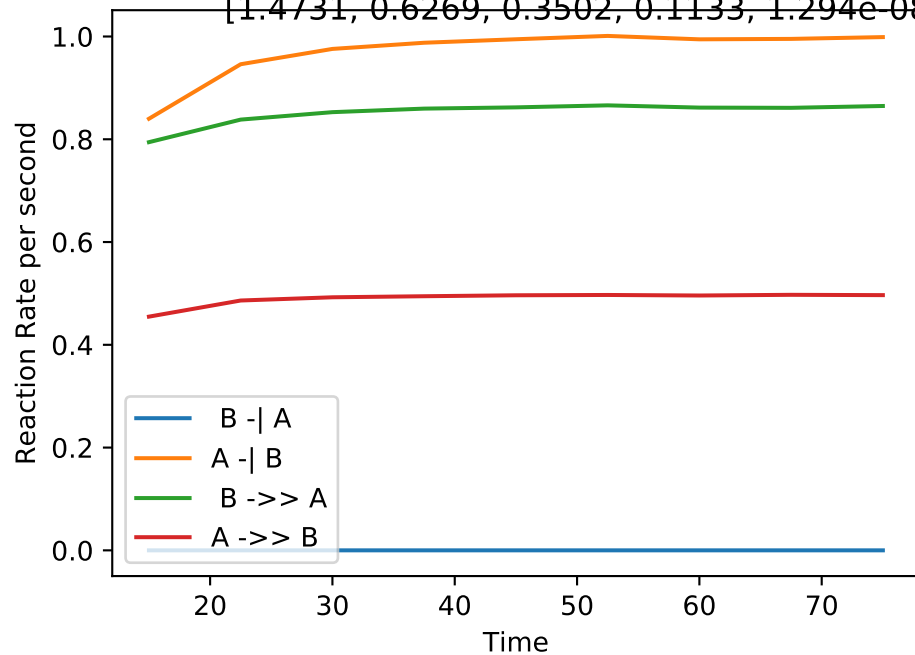
Double_up | MB-LLS Double_up(#59):

[0.0000, 0.3840, 0.6088, 0.3897, 0.001362, 0.000942, 0.0982, 0.5383, 0.3455, 0.0540]



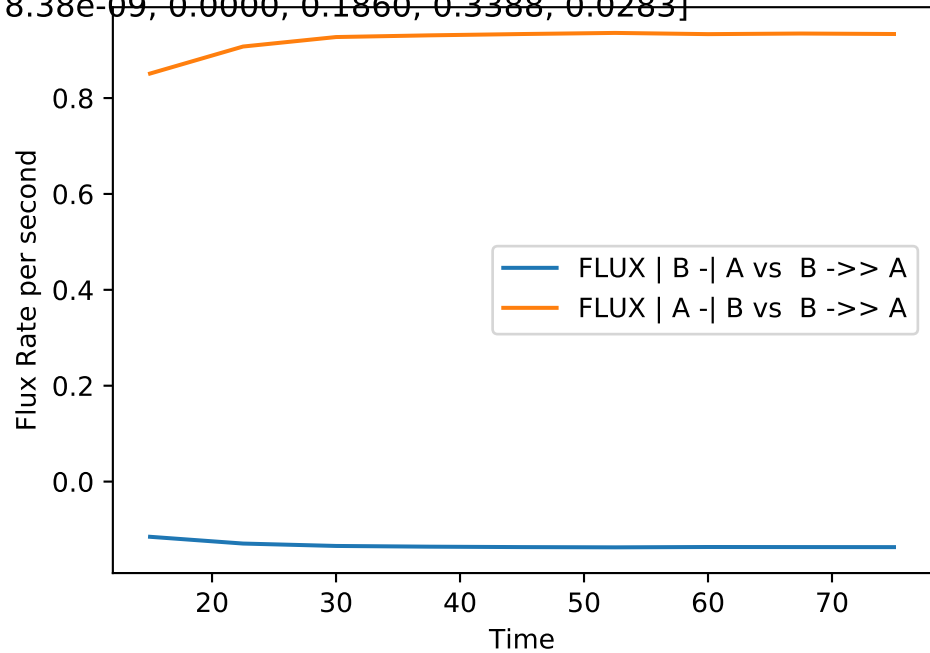
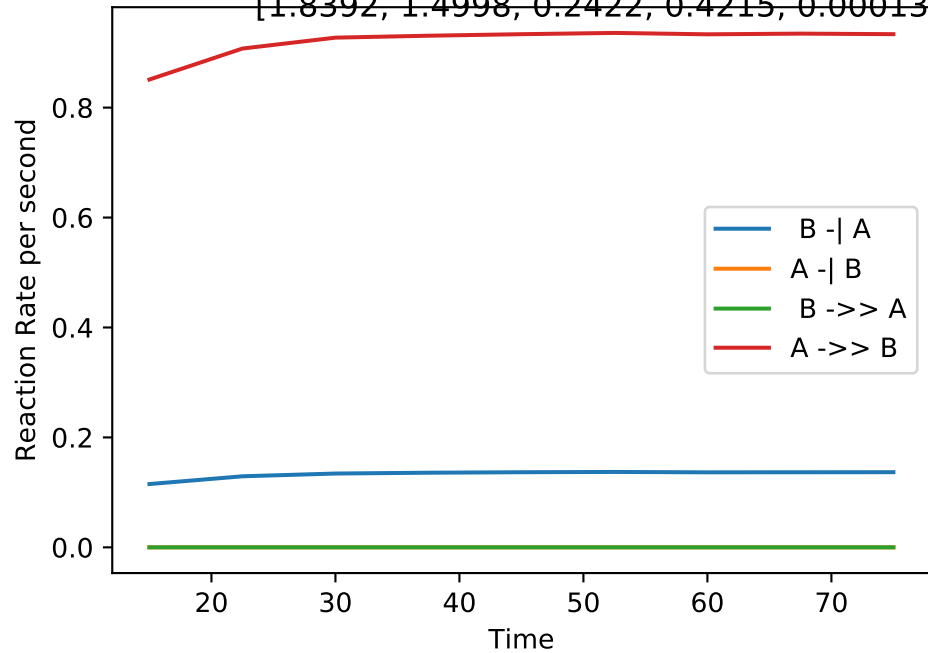
Double_up | MB-LLS Double_up(#60):

[1.4731, 0.6269, 0.3502, 0.1133, 1.294e-08, 0.0009468, 0.0262, 0.2736, 0.1064, 0.0150]



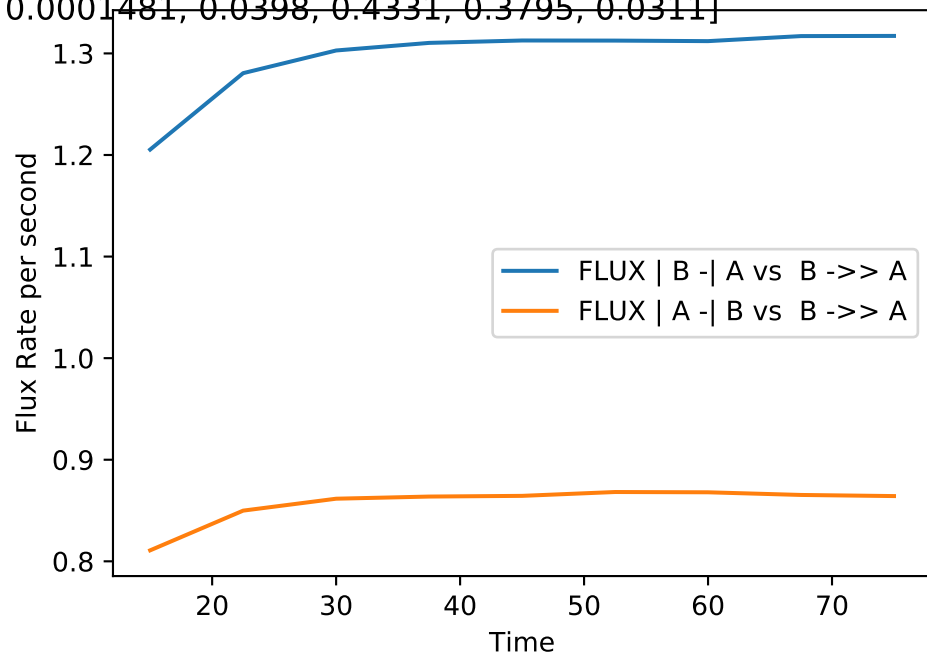
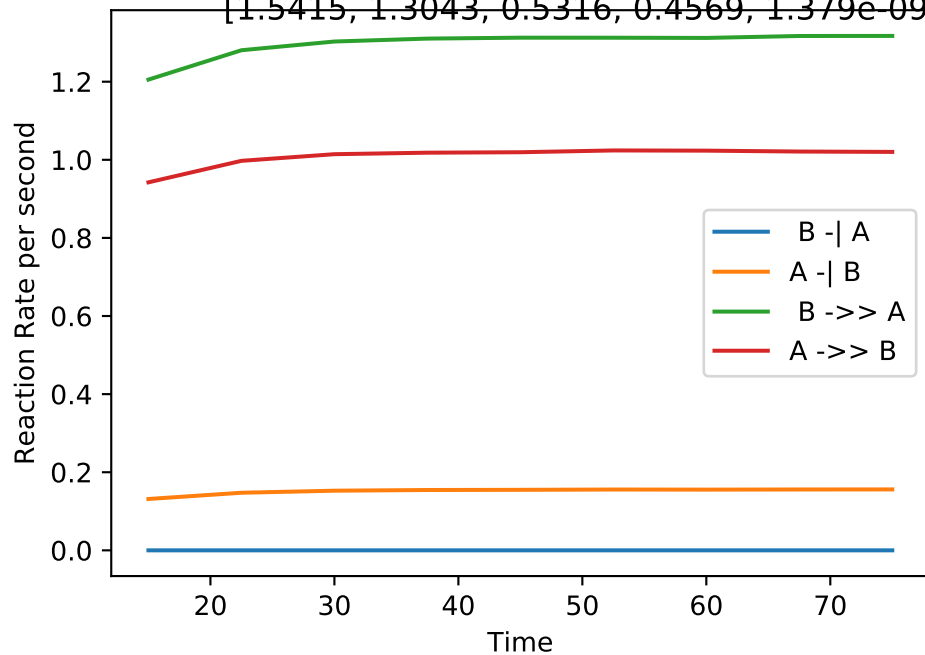
Double_up | MB-LLS Double_up(#61):

[1.8392, 1.4998, 0.2422, 0.4215, 0.00013, 8.38e-09, 0.0000, 0.1860, 0.3388, 0.0283]



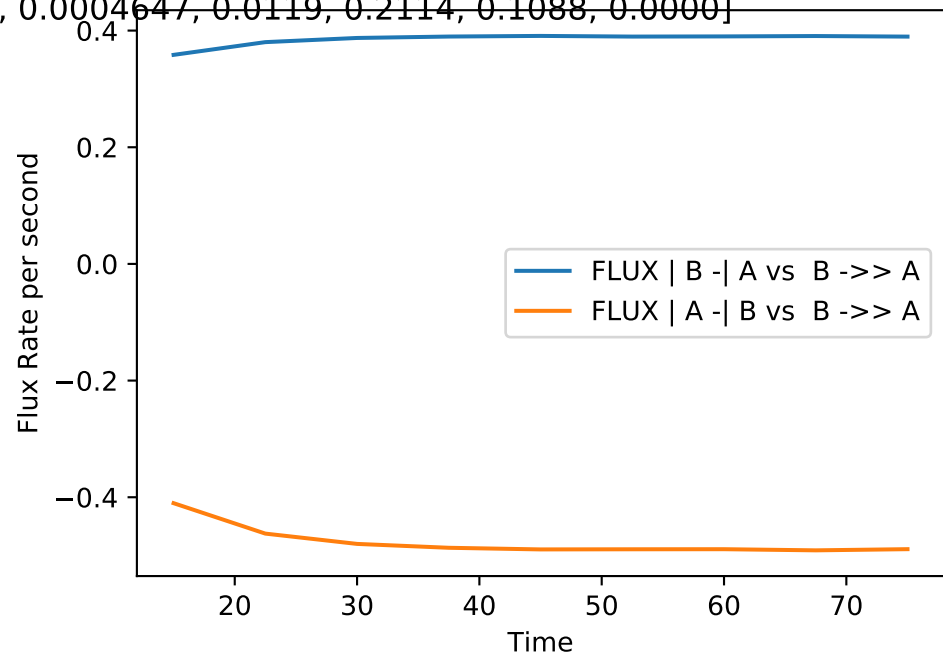
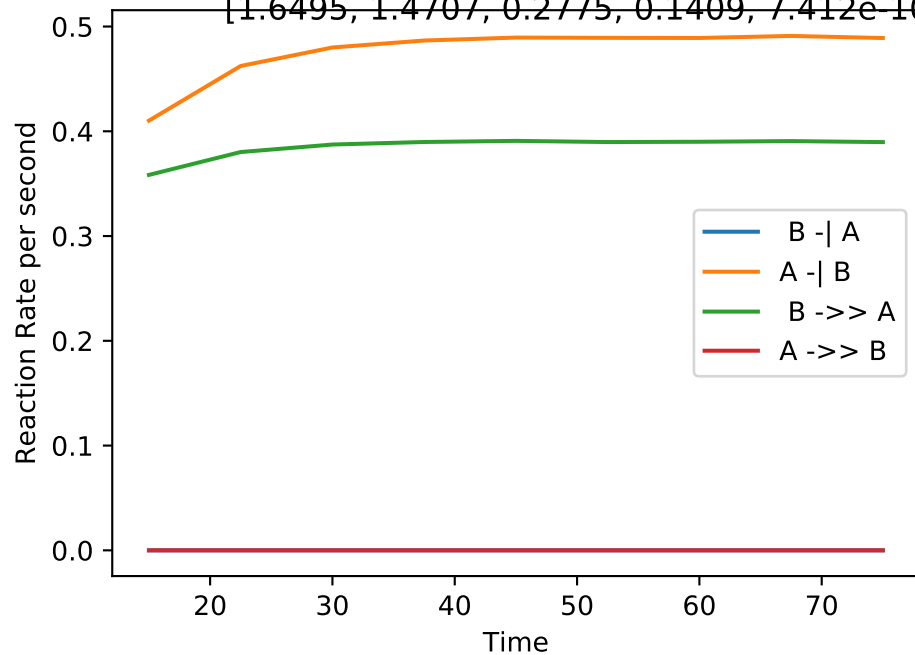
Double_up | MB-LLS Double_up(#62):

[1.5415, 1.3043, 0.5316, 0.4569, 1.379e-09, 0.0001481, 0.0398, 0.4331, 0.3795, 0.0311]



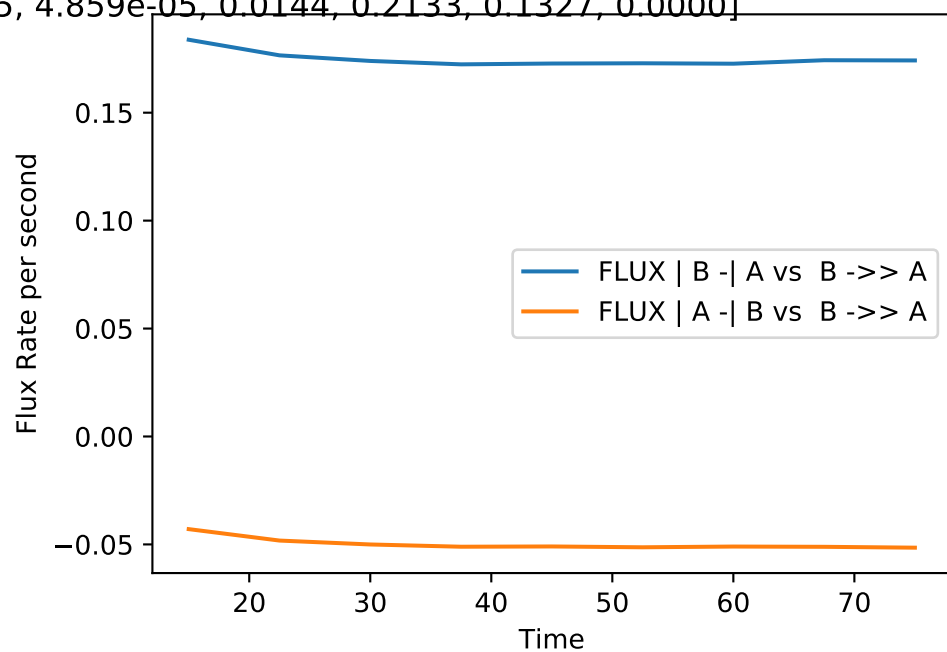
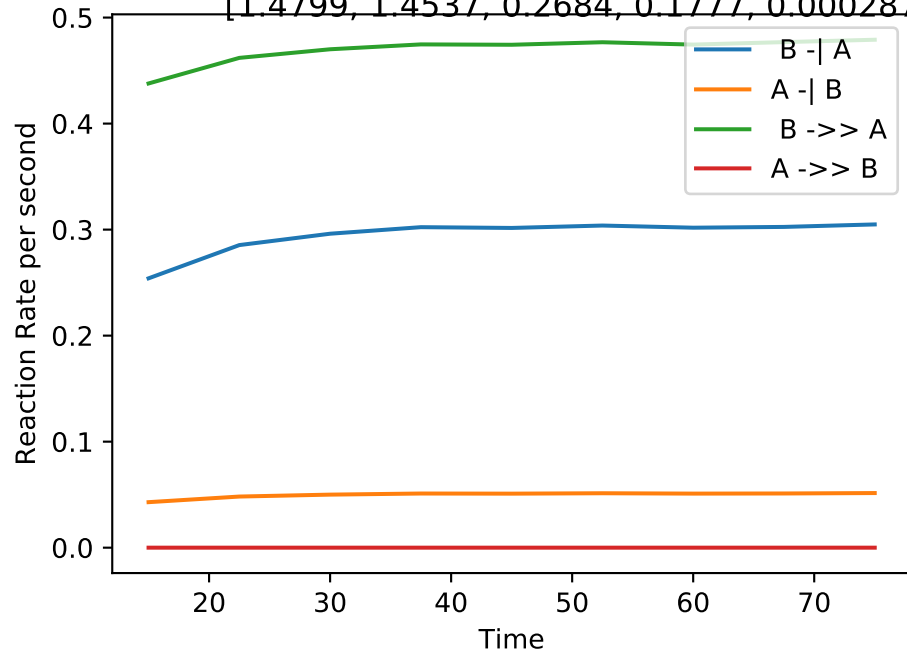
Double_up | MB-LLS Double_up(#63):

[1.6495, 1.4707, 0.2775, 0.1409, 7.412e-10, 0.0004647, 0.0119, 0.2114, 0.1088, 0.0000]



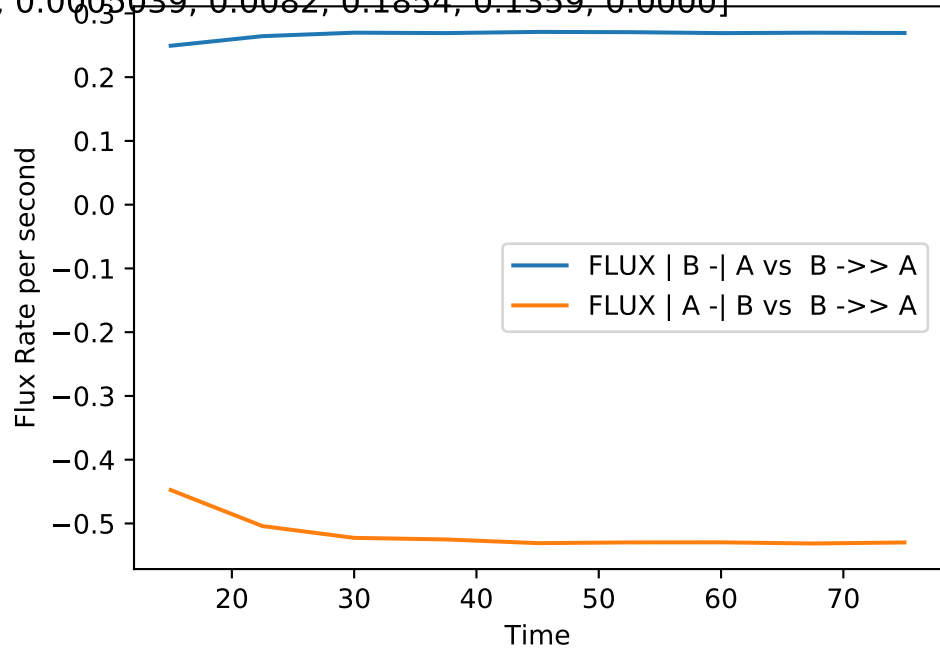
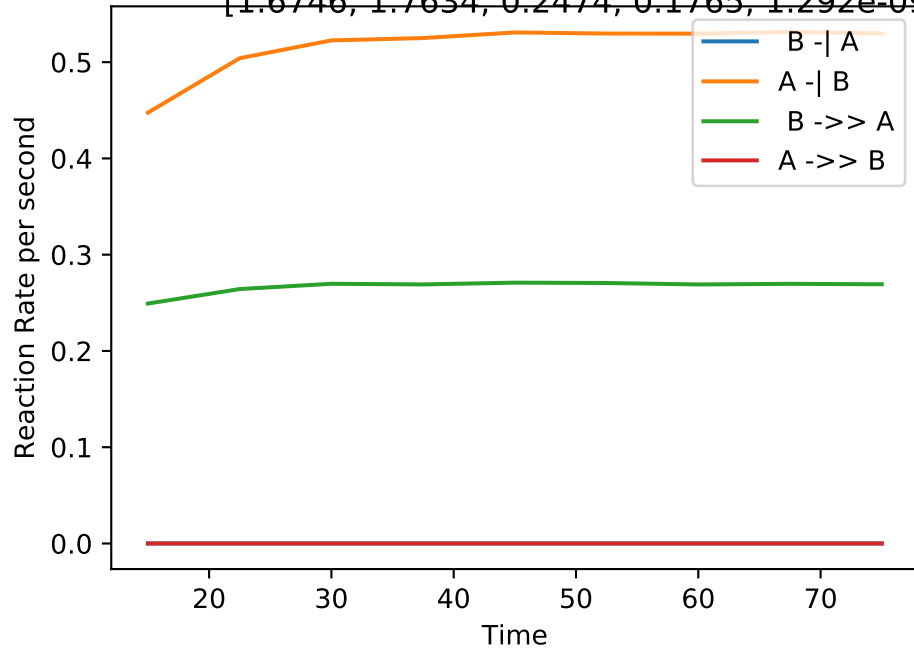
Double_up | MB-LLS Double_up(#64):

[1.4799, 1.4537, 0.2684, 0.1777, 0.0002875, 4.859e-05, 0.0144, 0.2133, 0.1327, 0.0000]



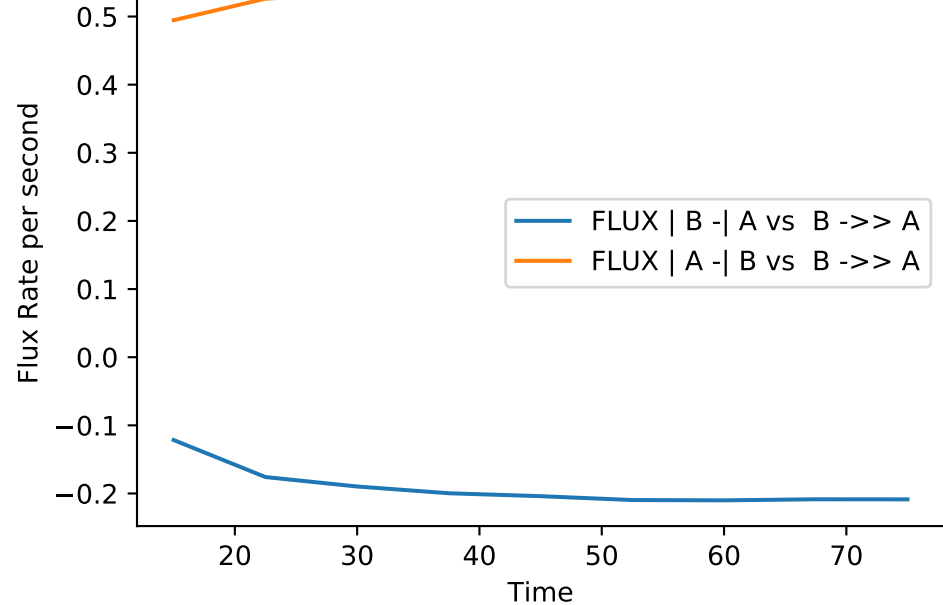
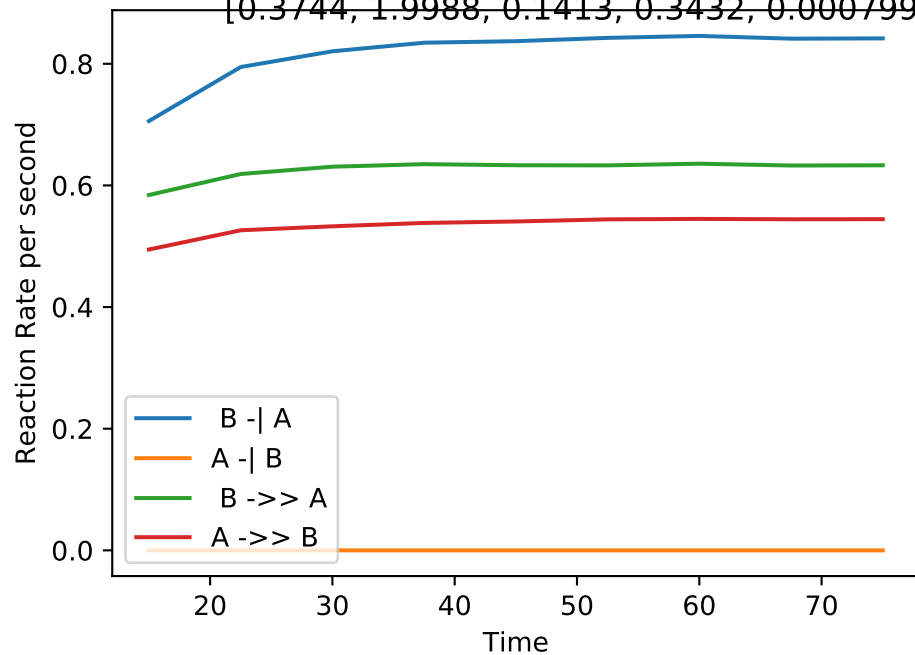
Double_up | MB-LLS Double_up(#65):

[1.6746, 1.7634, 0.2474, 0.1765, 1.292e-09, 0.0005039, 0.0082, 0.1854, 0.1359, 0.0000]



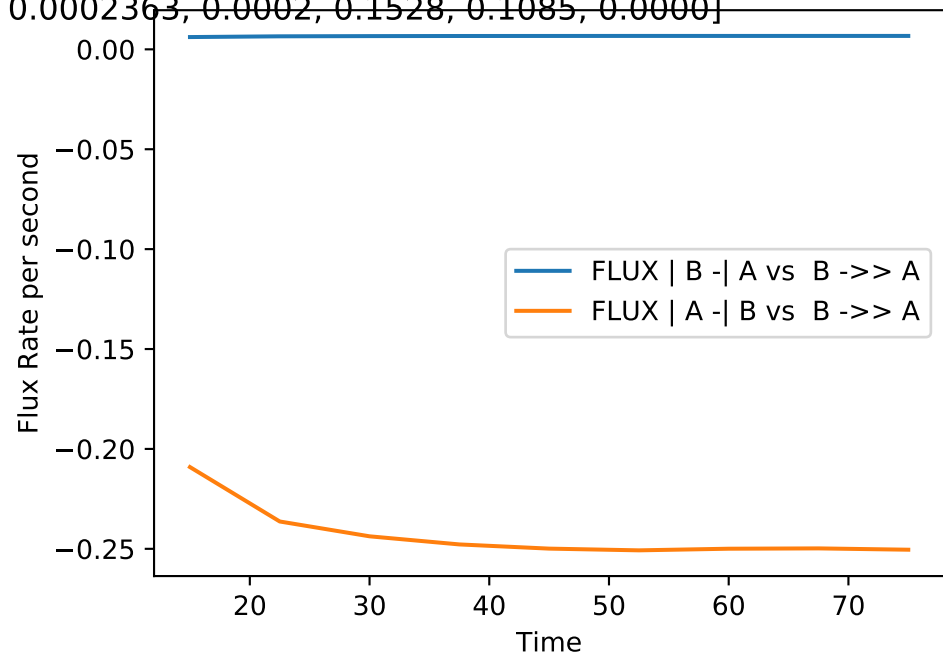
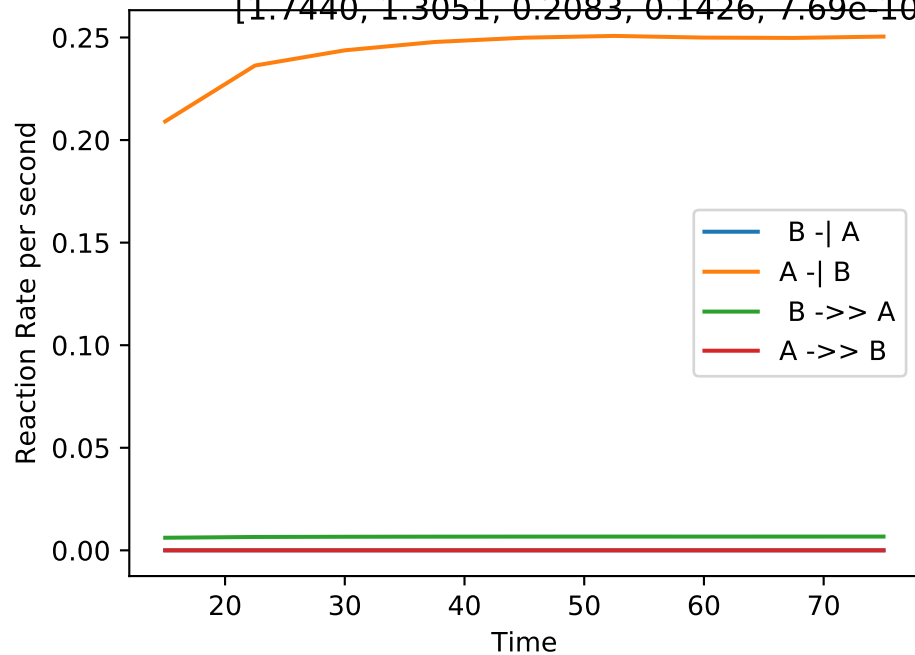
Double_up | MB-LLS Double_up(#66):

[0.3744, 1.9988, 0.1413, 0.3432, 0.0007996, 5.993e-09, 0.0192, 0.1322, 0.2611, 0.0164]



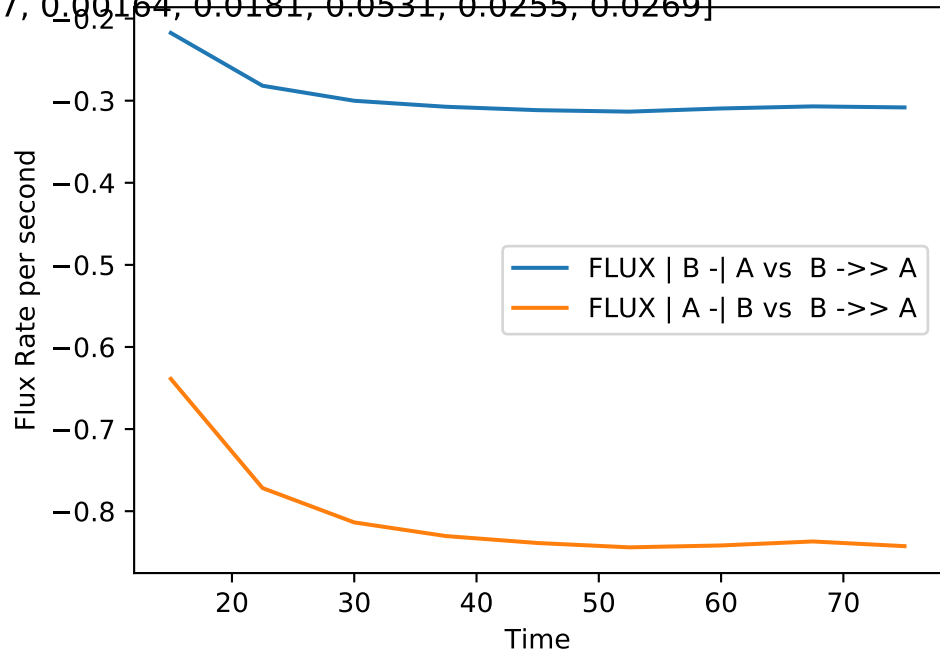
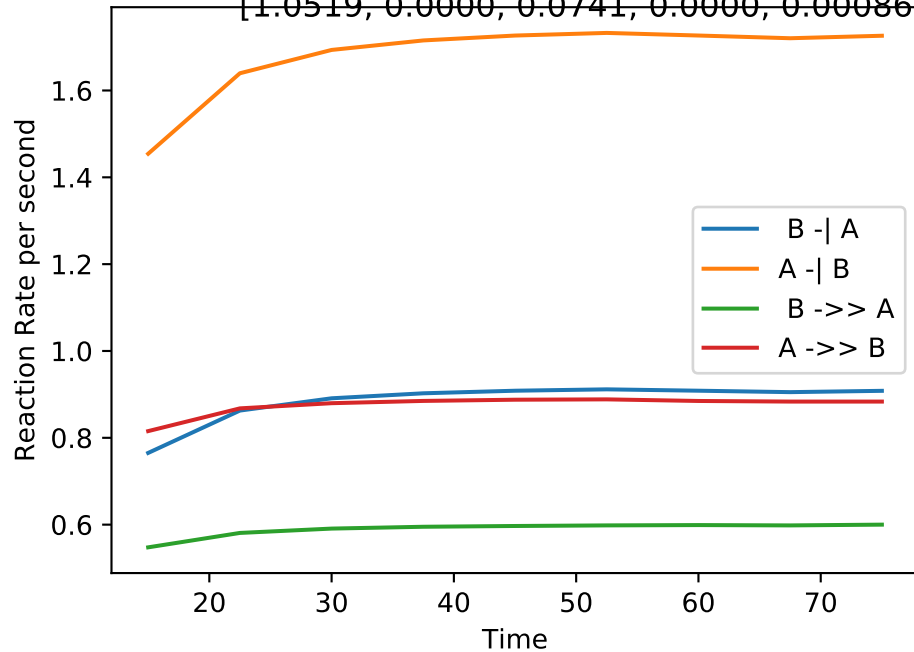
Double_up | MB-LLS Double_up(#67):

[1.7440, 1.3051, 0.2083, 0.1426, 7.69e-10, 0.0002363, 0.0002, 0.1528, 0.1085, 0.0000]



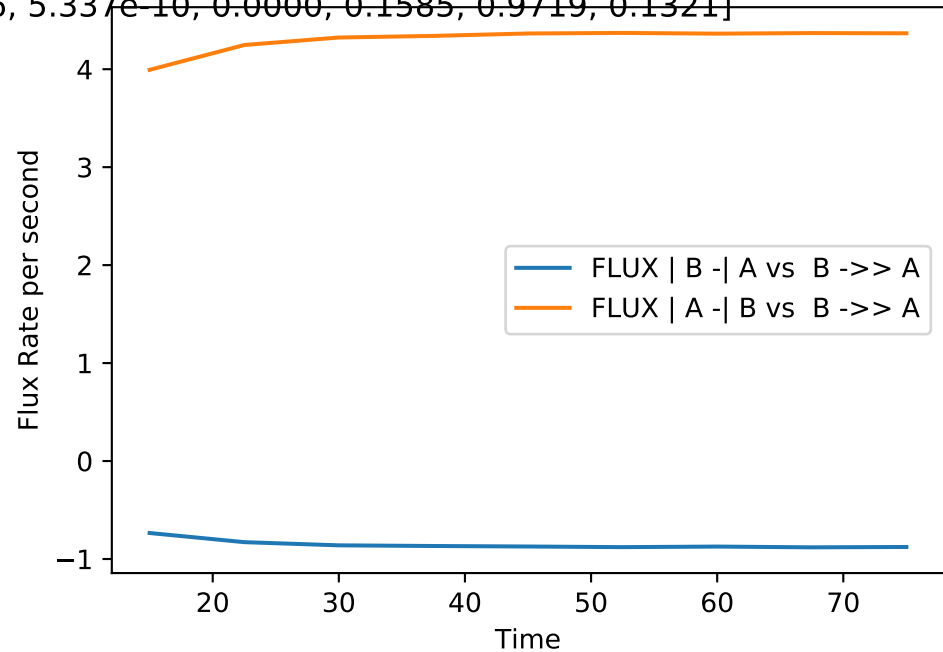
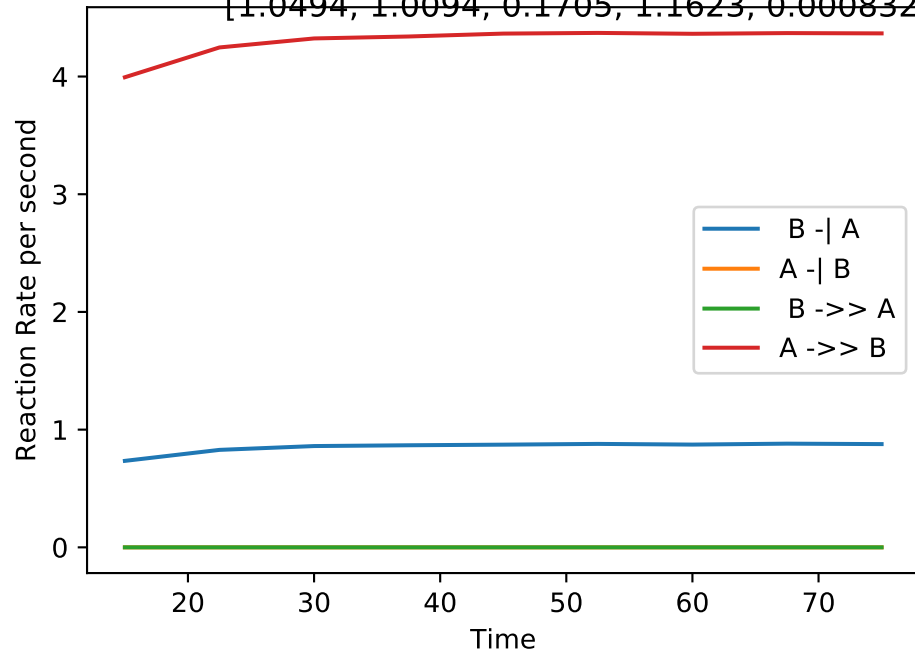
Double_up | MB-LLS Double_up(#68):

[1.0519, 0.0000, 0.0741, 0.0000, 0.0008627, 0.00164, 0.0181, 0.0531, 0.0255, 0.0269]



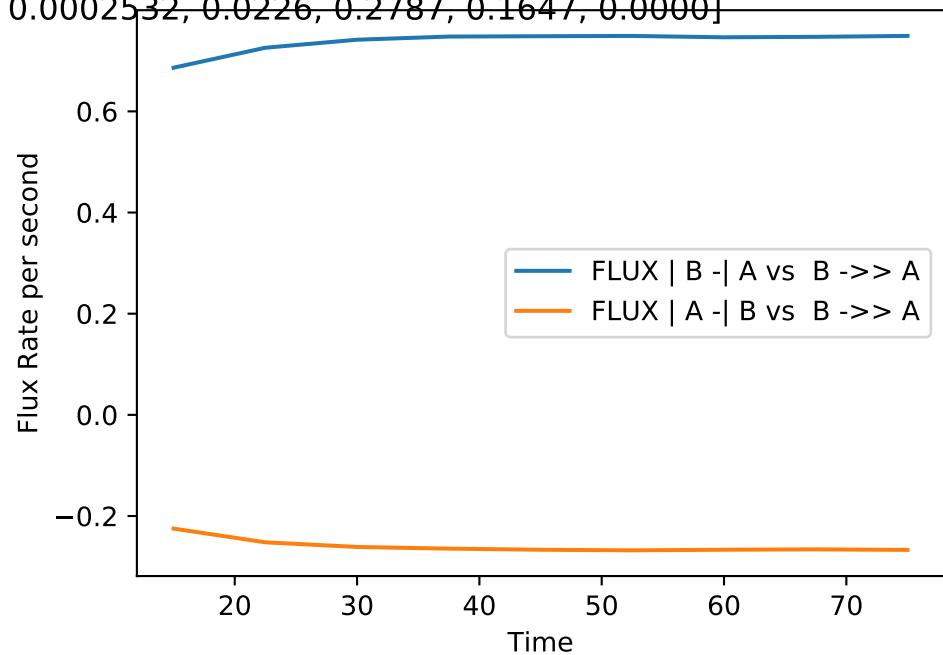
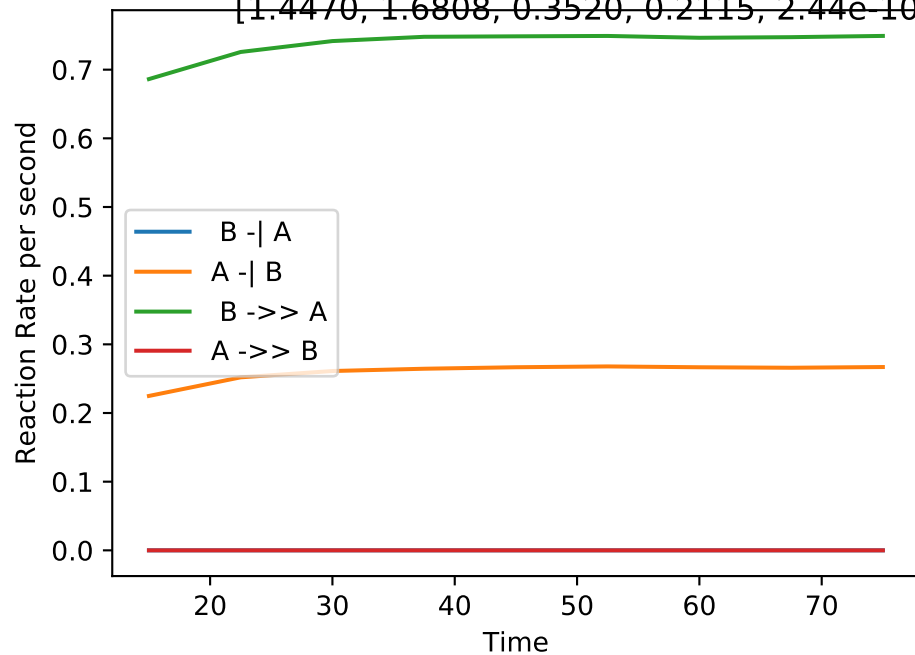
Double_up | MB-LLS Double_up(#69):

[1.0494, 1.0094, 0.1705, 1.1623, 0.0008326, 5.337e-10, 0.0000, 0.1585, 0.9719, 0.1321]



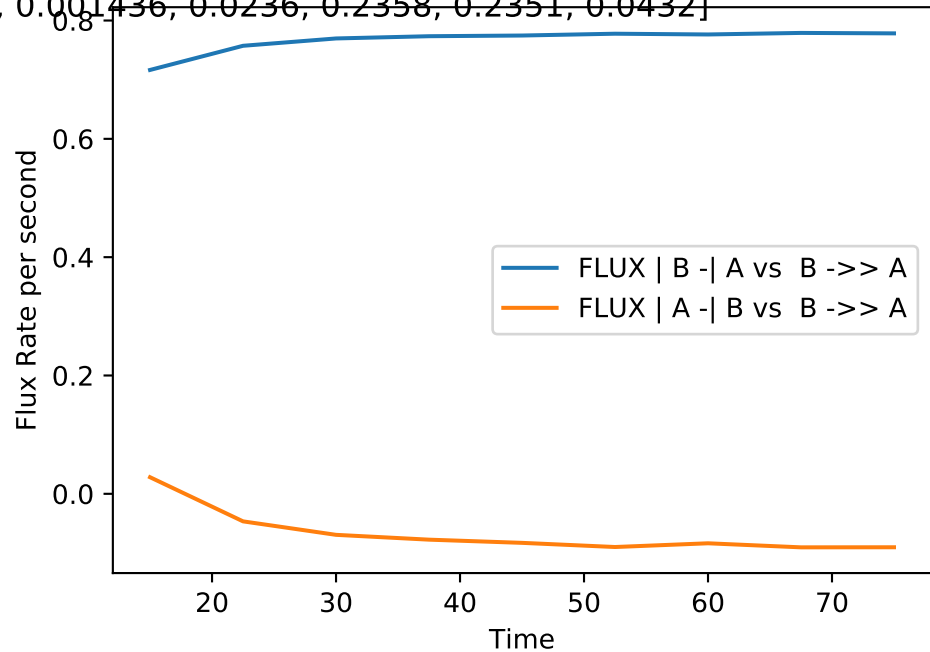
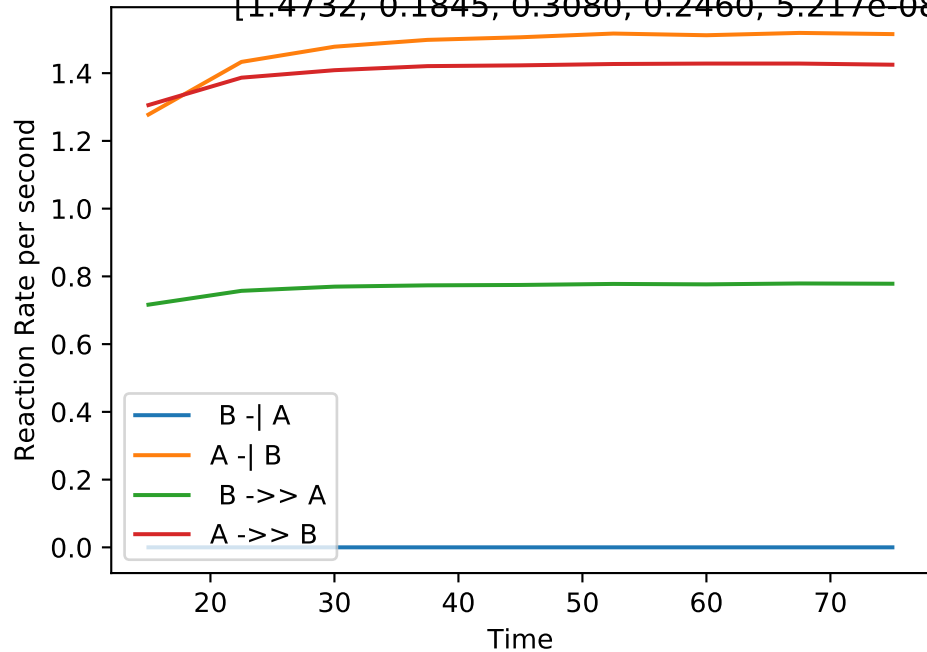
Double_up | MB-LLS Double_up(#70):

[1.4470, 1.6808, 0.3520, 0.2115, 2.44e-10, 0.0002532, 0.0226, 0.2787, 0.1647, 0.0000]



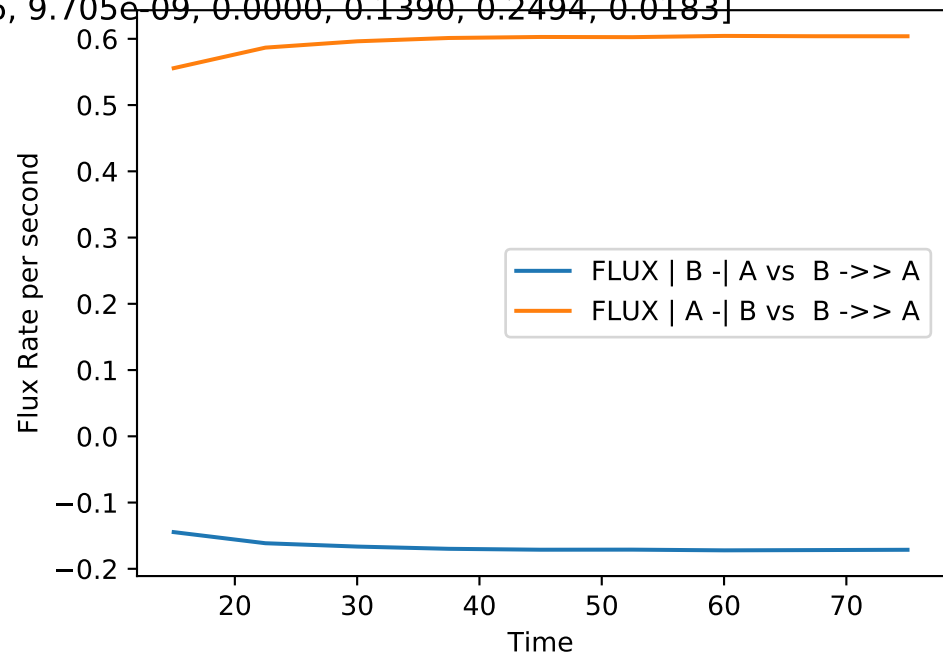
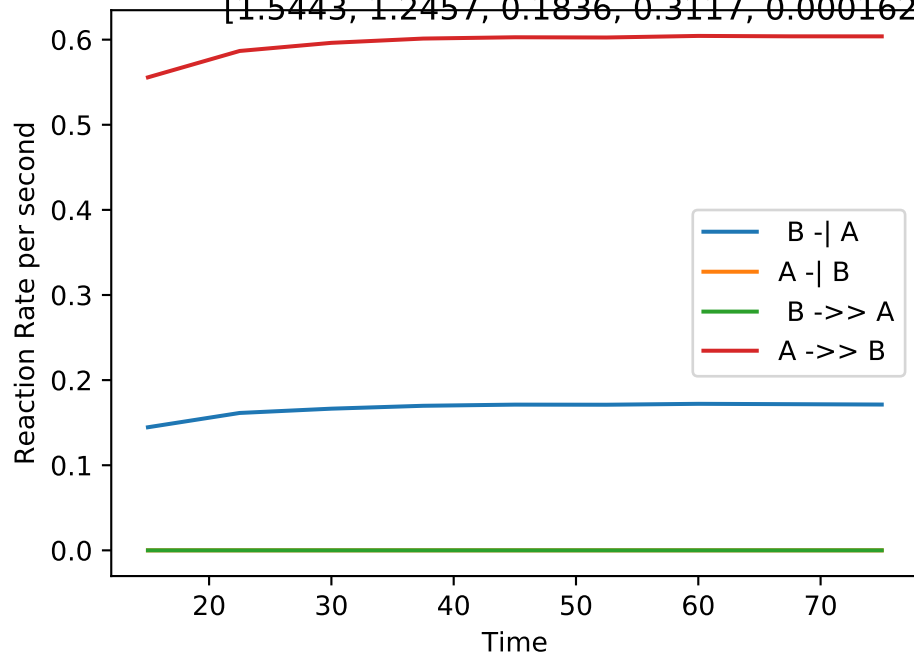
Double_up | MB-LLS Double_up(#71):

[1.4732, 0.1845, 0.3080, 0.2460, 5.217e-08, 0.001436, 0.0236, 0.2358, 0.2351, 0.0432]



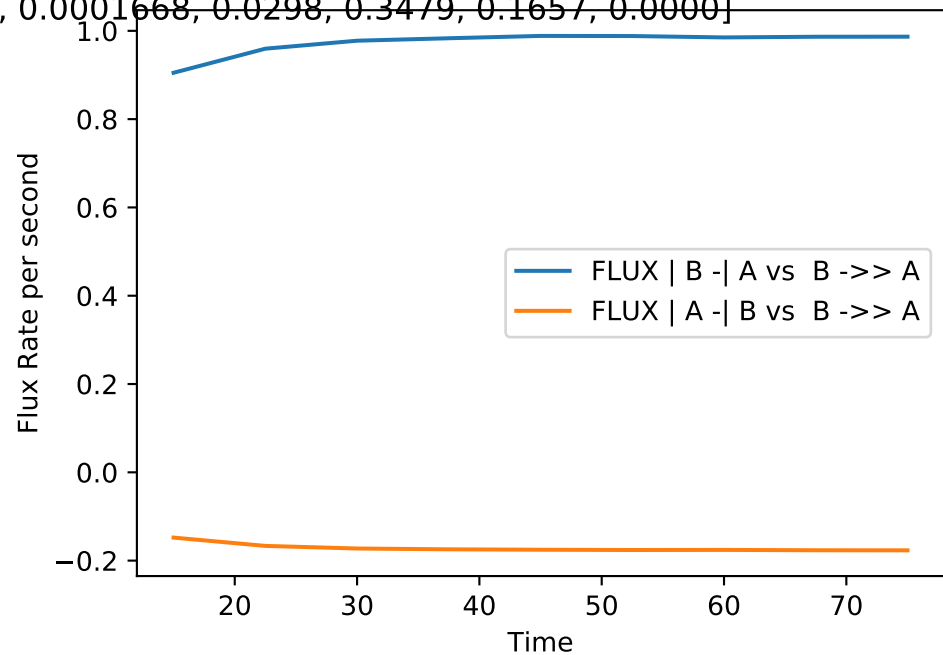
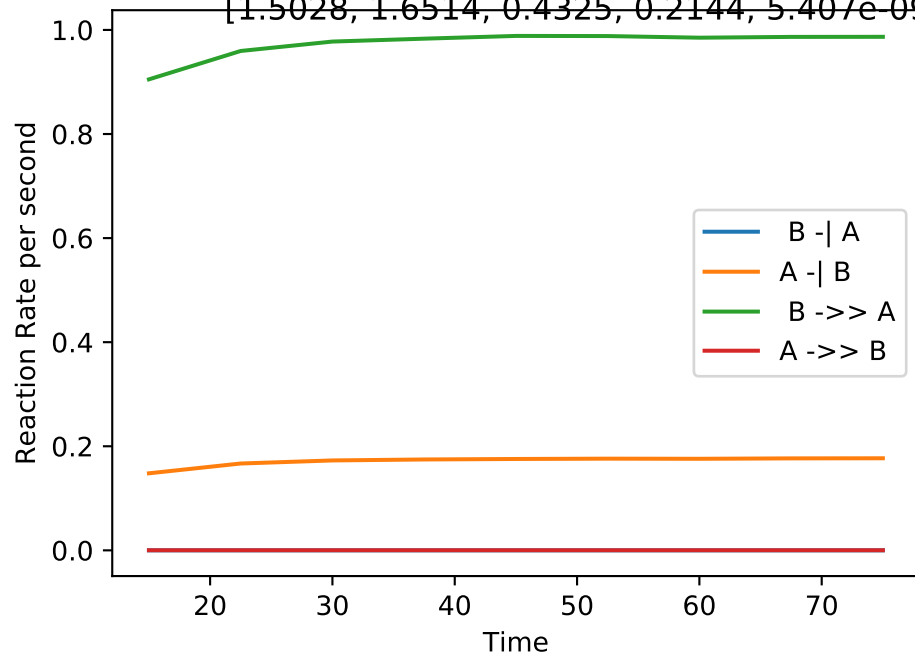
Double_up | MB-LLS Double_up(#72):

[1.5443, 1.2457, 0.1836, 0.3117, 0.0001626, 9.705e-09, 0.0000, 0.1390, 0.2494, 0.0183]



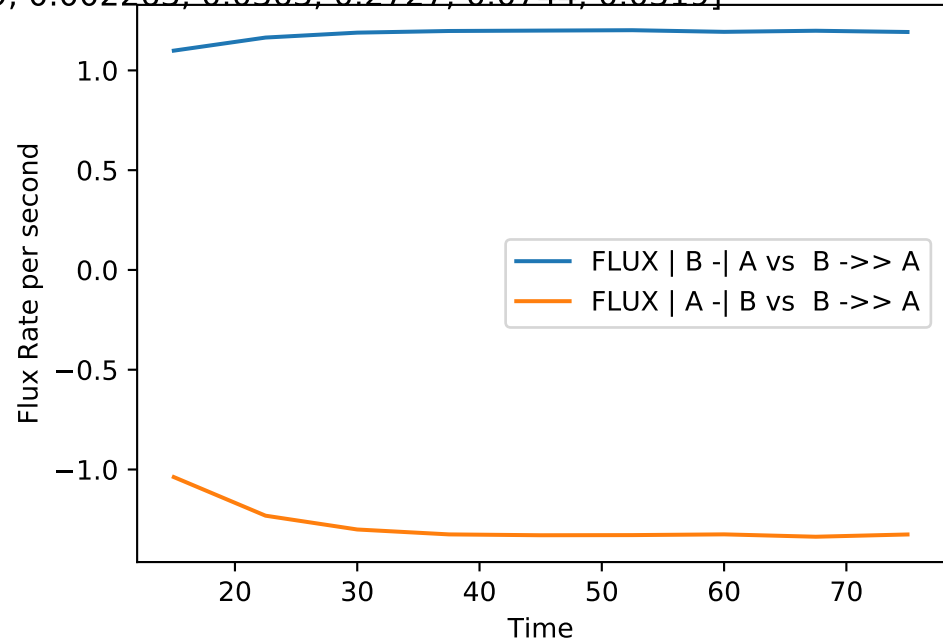
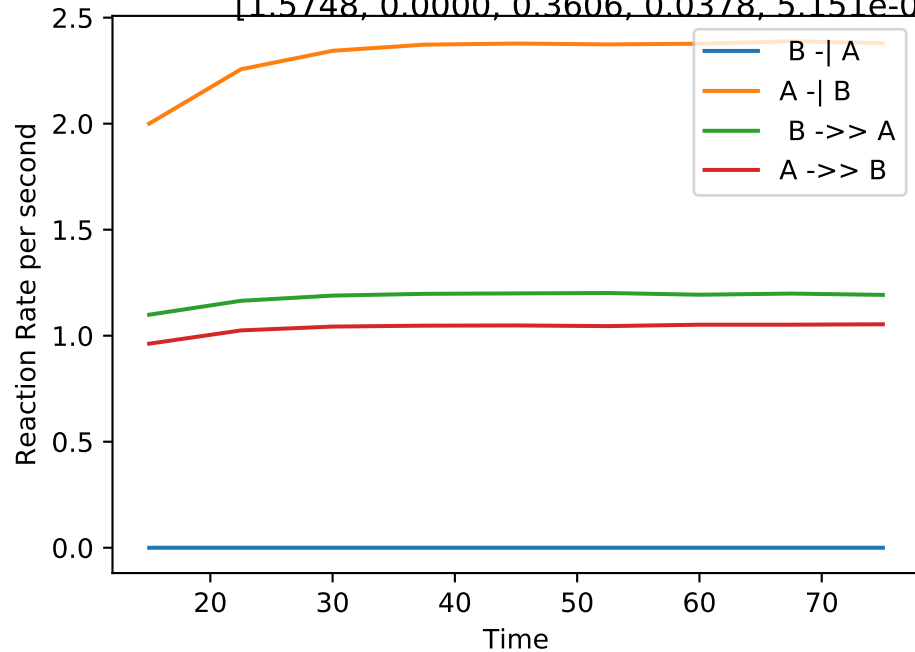
Double_up | MB-LLS Double_up(#73):

[1.5028, 1.6514, 0.4325, 0.2144, 5.407e-09, 0.0001668, 0.0298, 0.3479, 0.1657, 0.0000]



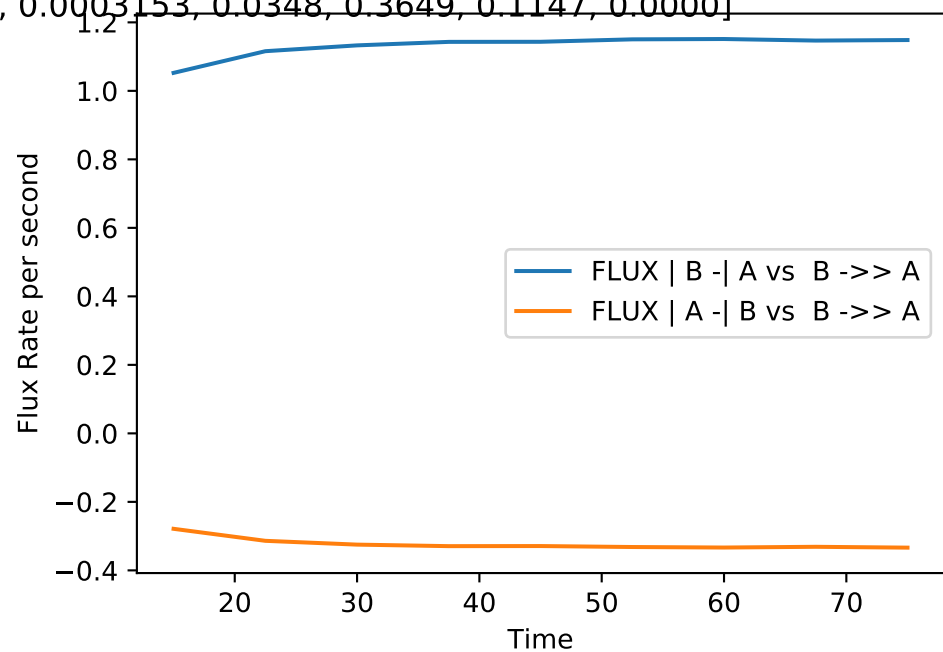
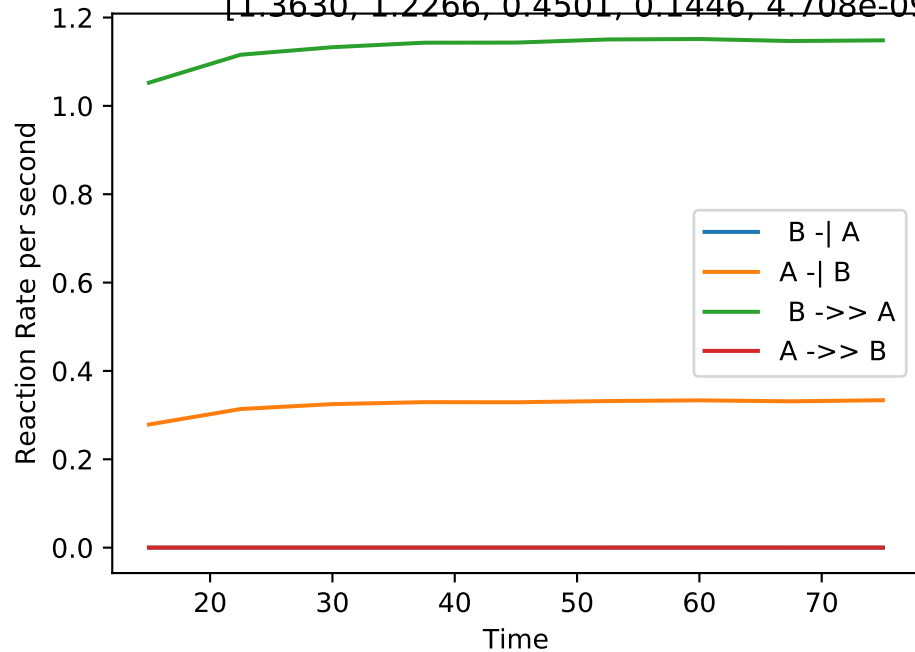
Double_up | MB-LLS Double_up(#74):

[1.5748, 0.0000, 0.3606, 0.0378, 5.151e-09, 0.002263, 0.0363, 0.2727, 0.0744, 0.0319]



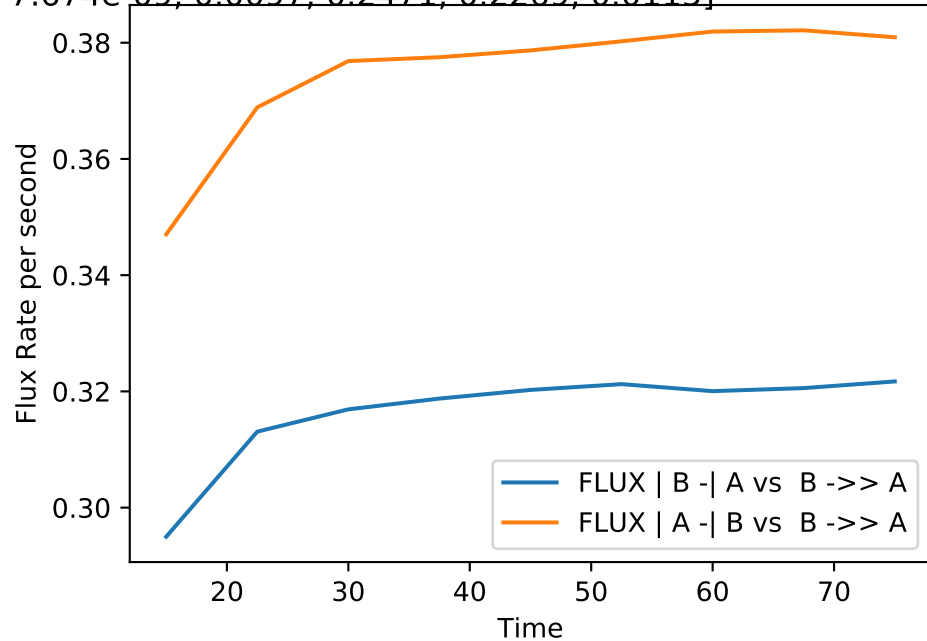
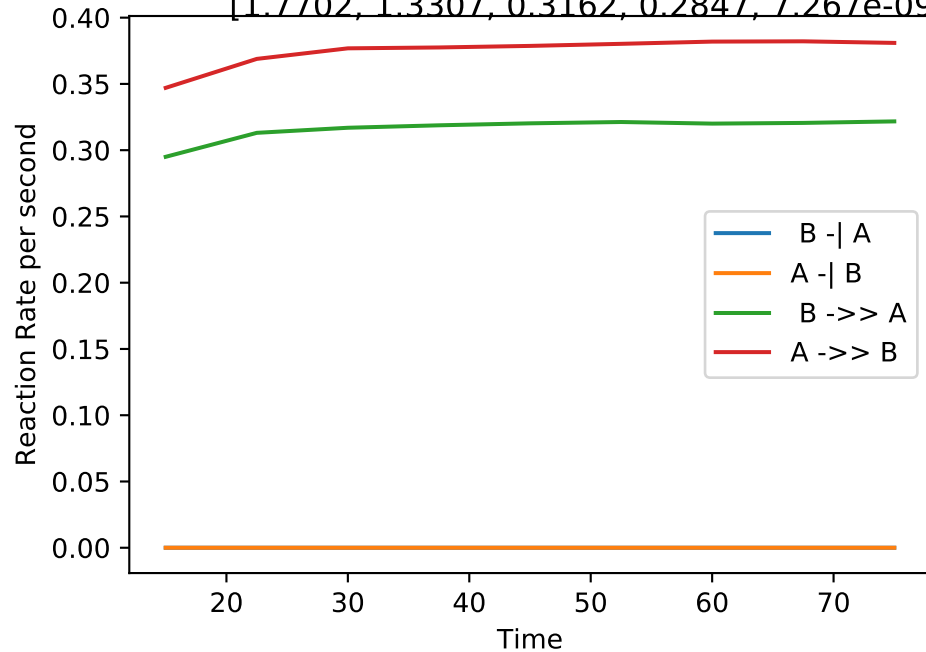
Double_up | MB-LLS Double_up(#75):

[1.3630, 1.2266, 0.4501, 0.1446, 4.708e-09, 0.0003153, 0.0348, 0.3649, 0.1147, 0.0000]



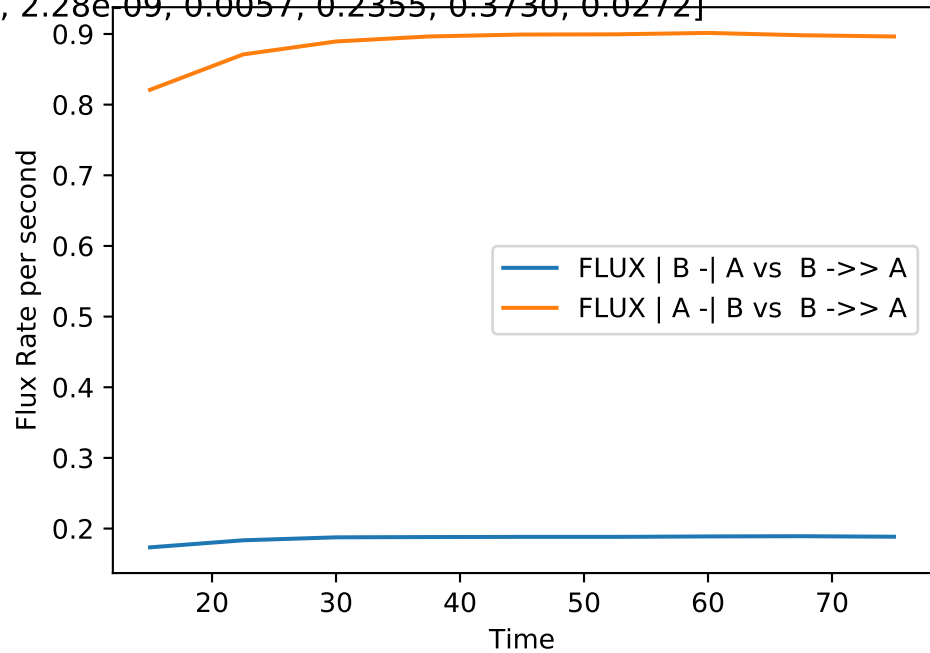
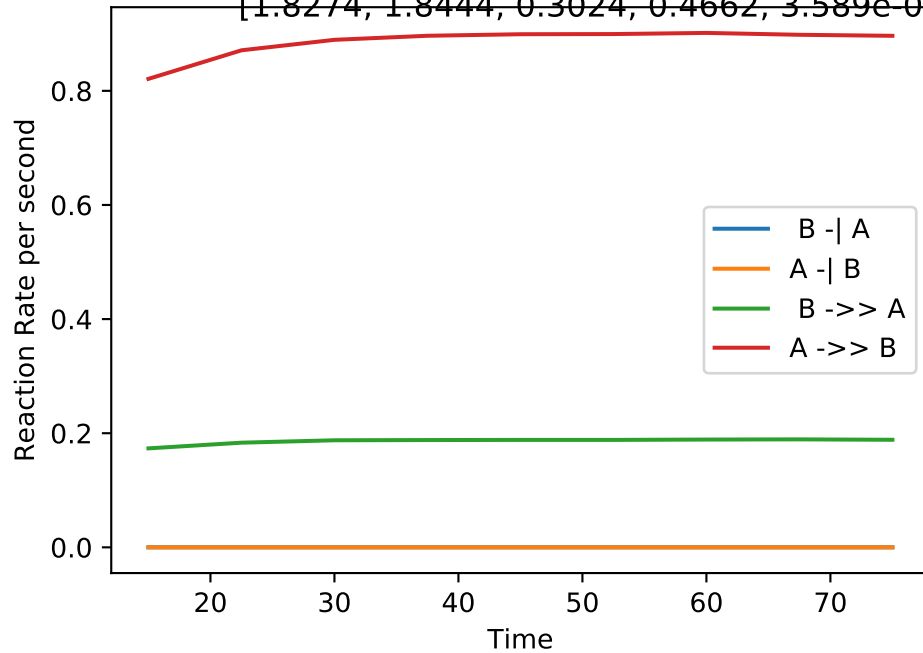
Double_up | MB-LLS Double_up(#76):

[1.7702, 1.3307, 0.3162, 0.2847, 7.267e-09, 7.674e-09, 0.0097, 0.2471, 0.2269, 0.0115]



Double_up | MB-LLS Double_up(#77):

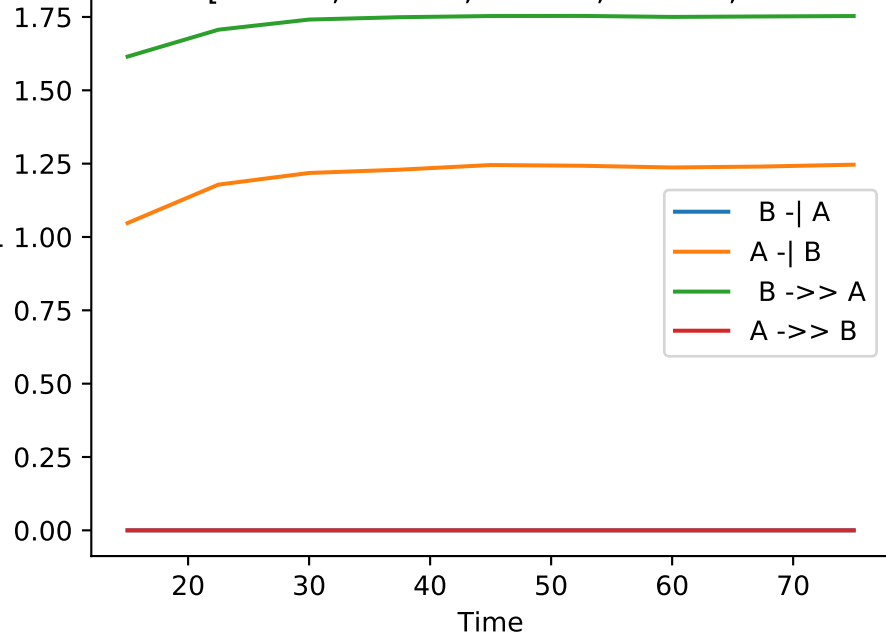
[1.8274, 1.8444, 0.3024, 0.4662, 3.589e-08, 2.28e-09, 0.0057, 0.2355, 0.3730, 0.0272]



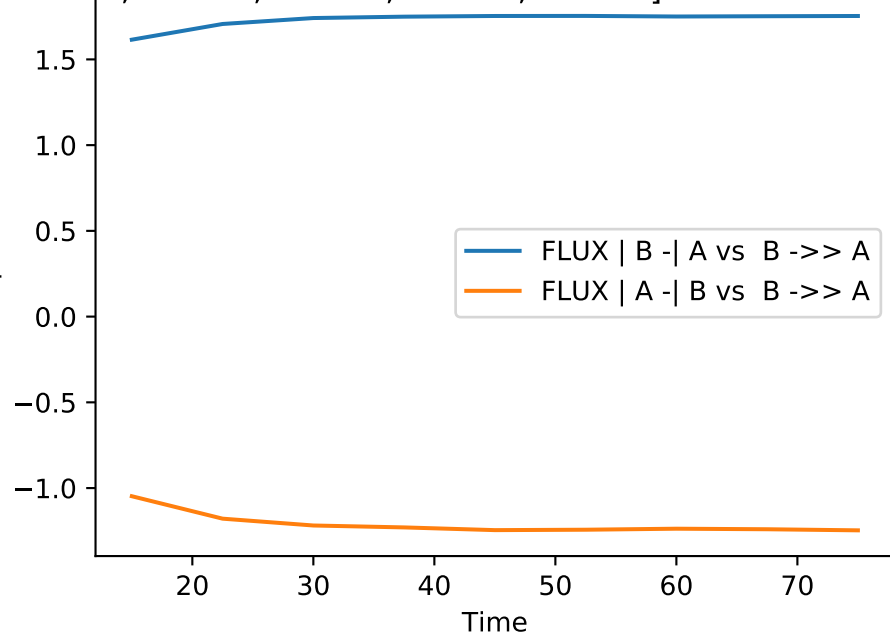
Double_up | MB-LLS Double_up(#78):

[1.4974, 0.8187, 0.5481, 0.0155, 4.524e-10, 0.00118, 0.0531, 0.4394, 0.0270, 0.0000]

Reaction Rate per second

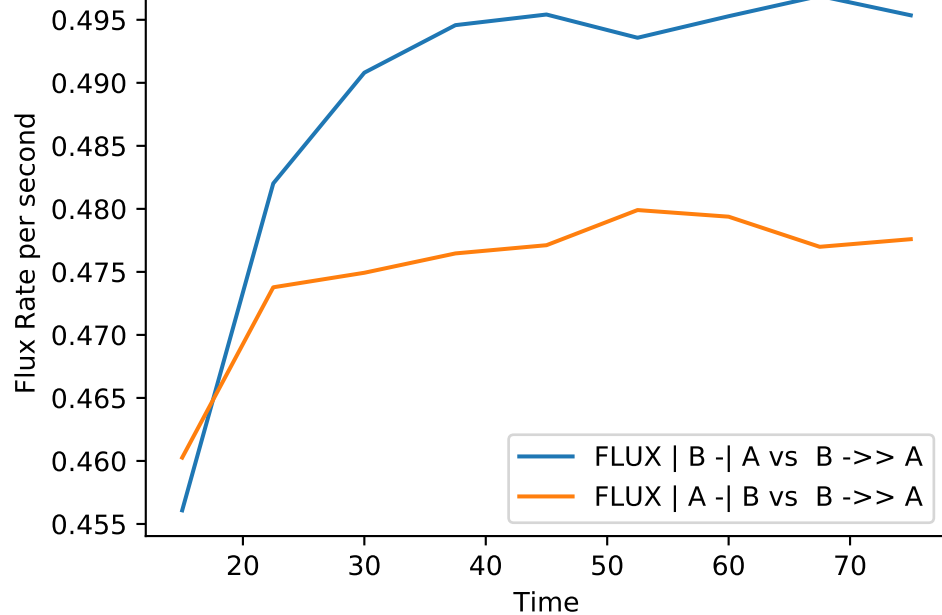
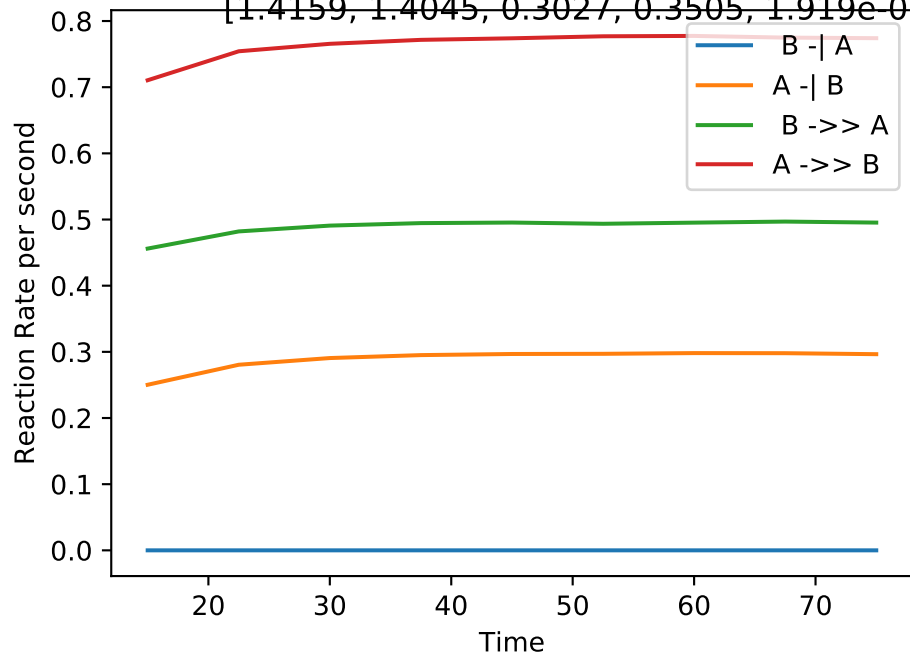


Flux Rate per second



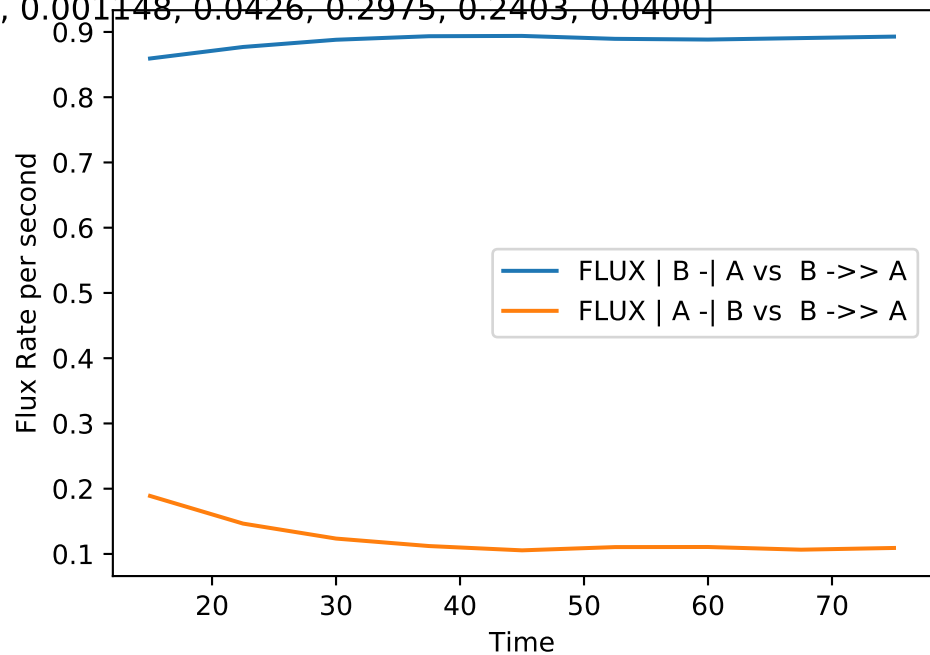
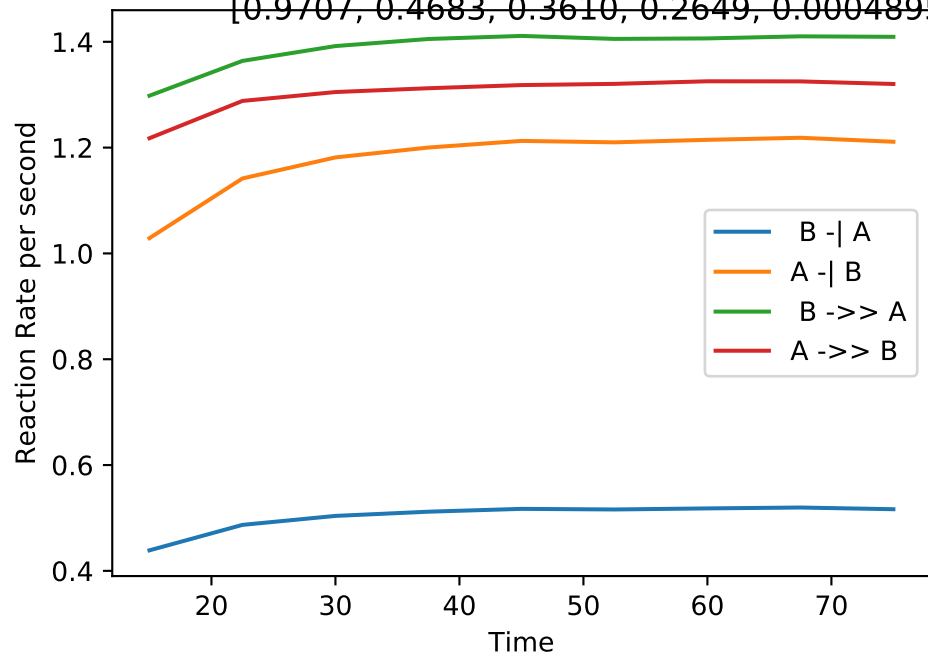
Double_up | MB-LLS Double_up(#79):

[1.4159, 1.4045, 0.3027, 0.3505, 1.919e-09, 0.0002821, 0.0150, 0.2388, 0.2856, 0.0235]



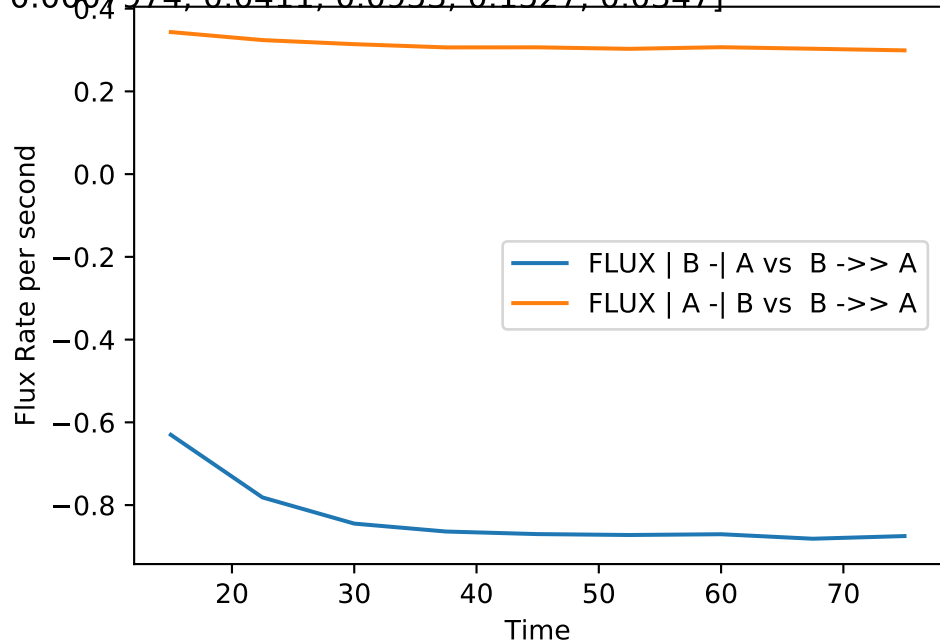
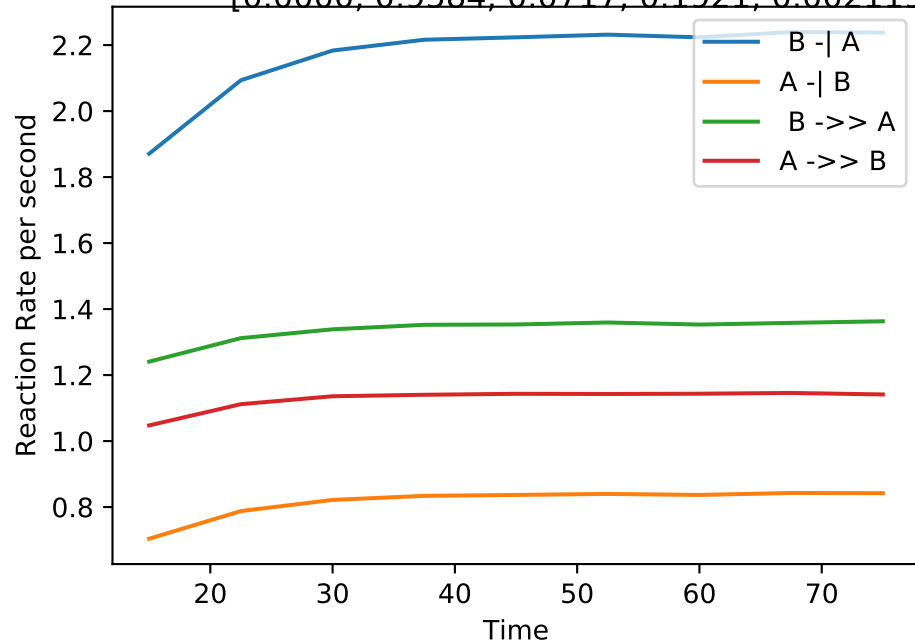
Double_up | MB-LLS Double_up(#80):

[0.9707, 0.4683, 0.3610, 0.2649, 0.0004895, 0.001148, 0.0426, 0.2975, 0.2403, 0.0400]



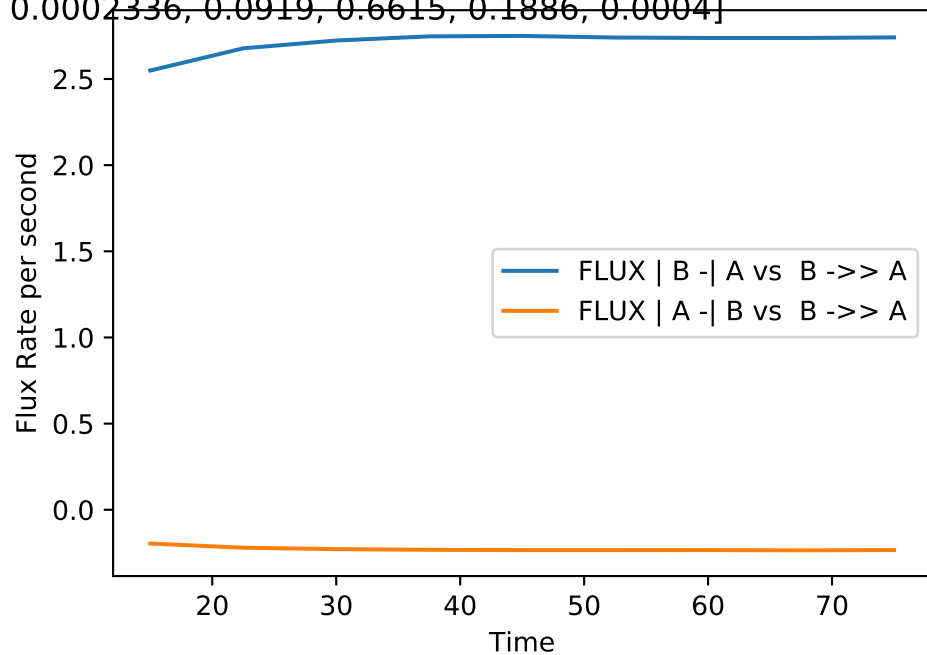
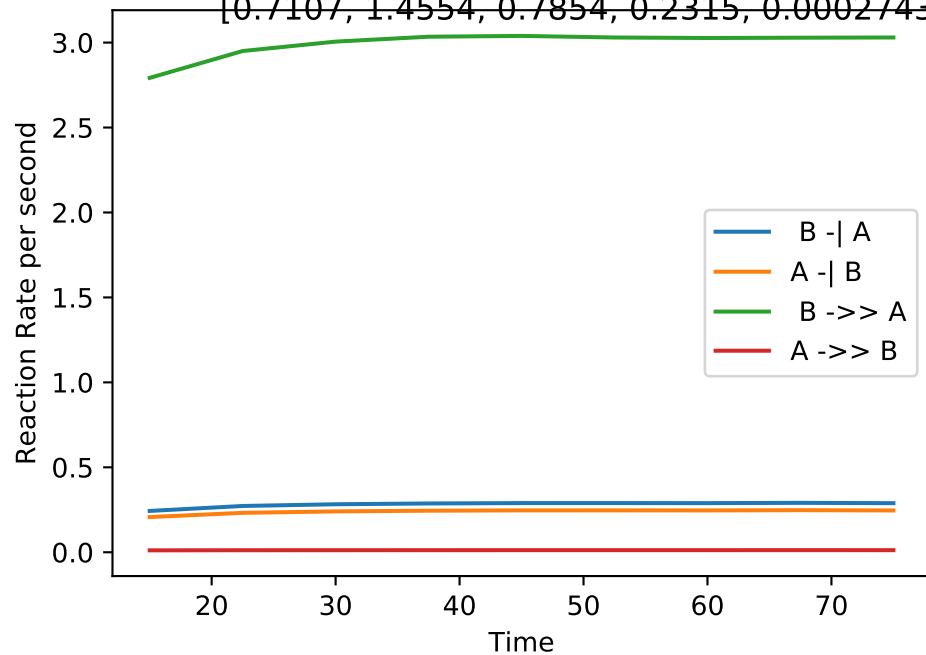
Double_up | MB-LLS Double_up(#81):

[0.0000, 0.9584, 0.0717, 0.1921, 0.002119, 0.0007974, 0.0411, 0.0953, 0.1527, 0.0347]



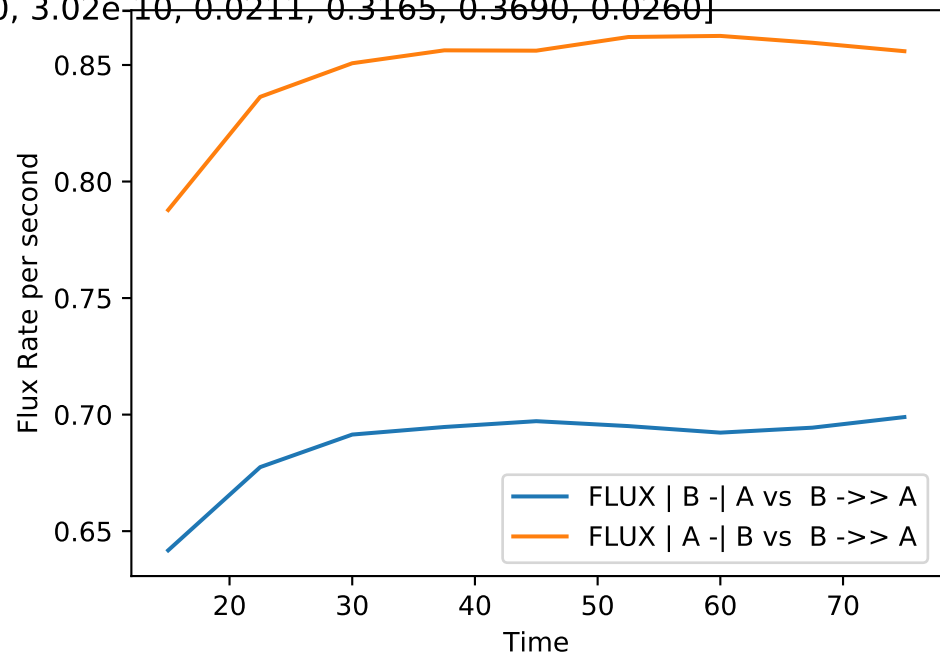
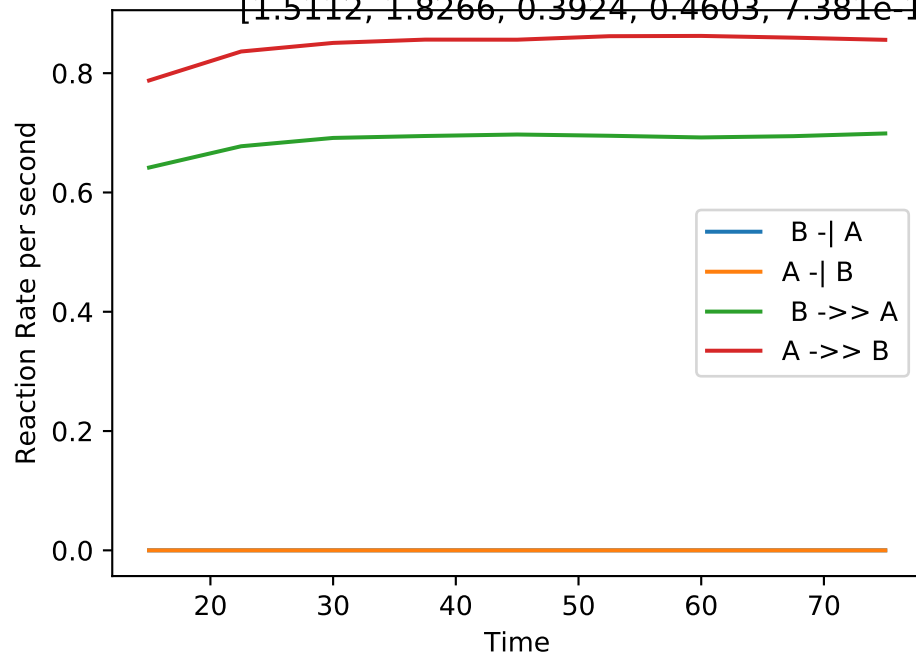
Double_up | MB-LLS Double_up(#82):

[0.7107, 1.4554, 0.7854, 0.2315, 0.0002743, 0.0002336, 0.0919, 0.6615, 0.1886, 0.0004]



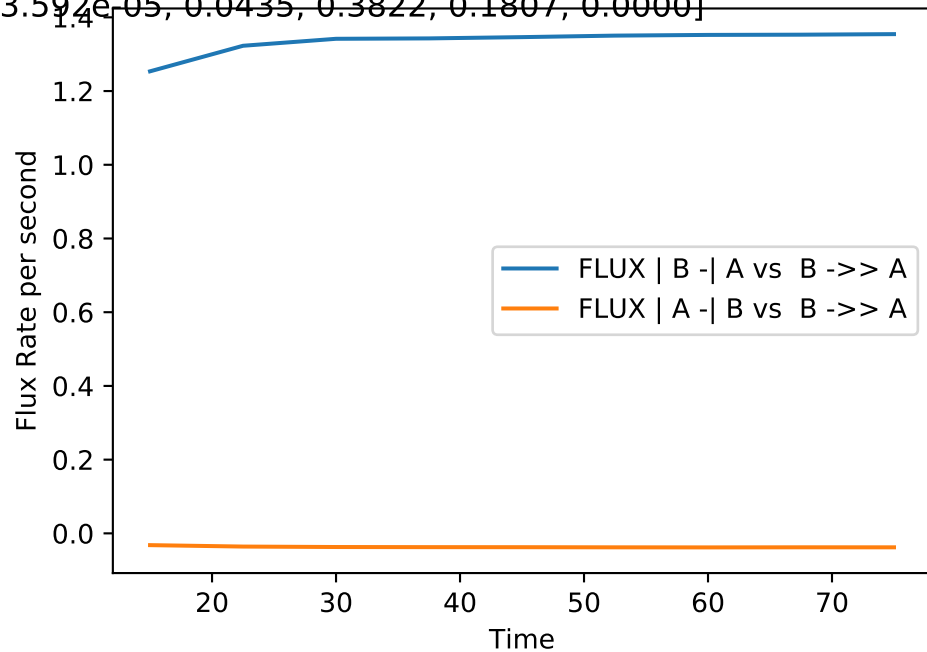
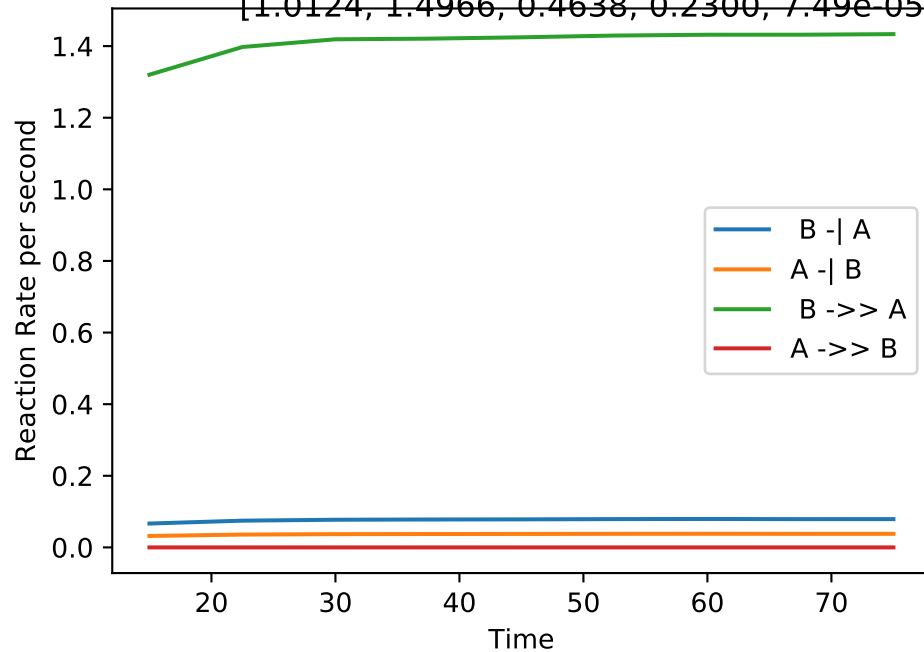
Double_up | MB-LLS Double_up(#83):

[1.5112, 1.8266, 0.3924, 0.4603, 7.381e-10, 3.02e-10, 0.0211, 0.3165, 0.3690, 0.0260]



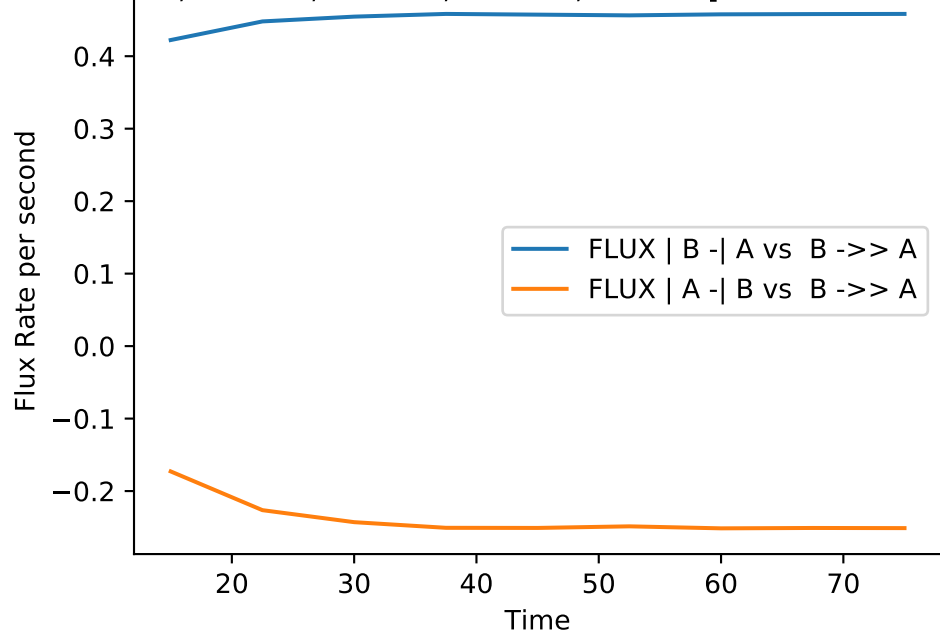
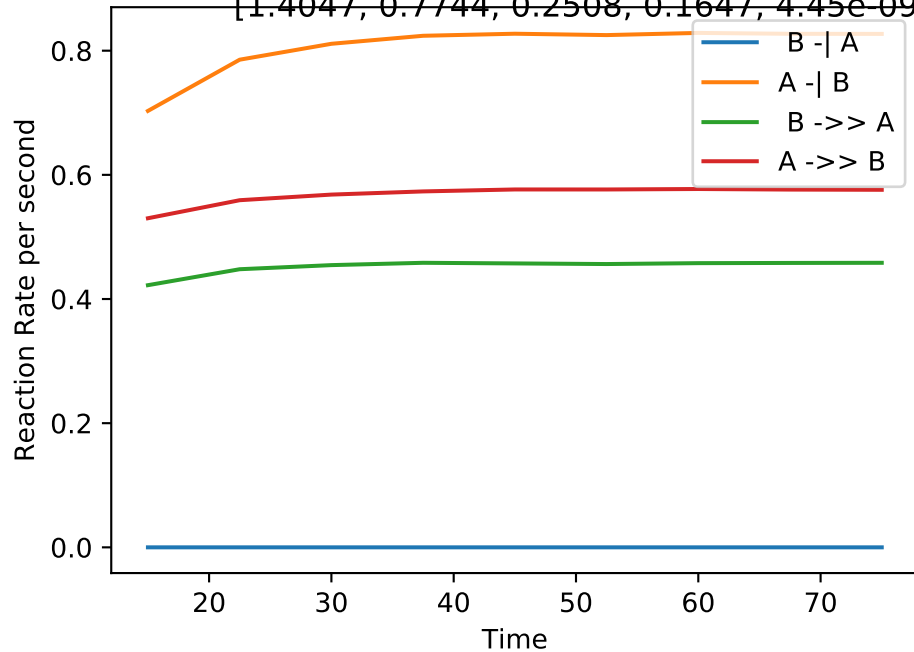
Double_up | MB-LLS Double_up(#84):

[1.0124, 1.4966, 0.4638, 0.2300, 7.49e-05, 3.592e-05, 0.0435, 0.3822, 0.1807, 0.0000]



Double_up | MB-LLS Double_up(#85):

[1.4047, 0.7744, 0.2508, 0.1647, 4.45e-09, 0.0007895, 0.0139, 0.1907, 0.1448, 0.0175]



Double_up | MB-LLS Double_up(#86):

[1.3861, 1.8701, 0.4472, 0.2890, 2.831e-08, 2.151e-07, 0.0313, 0.3636, 0.2239, 0.0030]

Reaction Rate per second

1.0
0.8
0.6
0.4
0.2
0.0

20

30

40

50

60

70

Time



Flux Rate per second

1.0
0.8
0.6
0.4
0.2

20

30

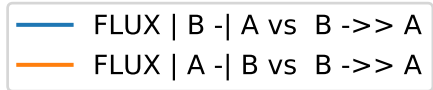
40

50

60

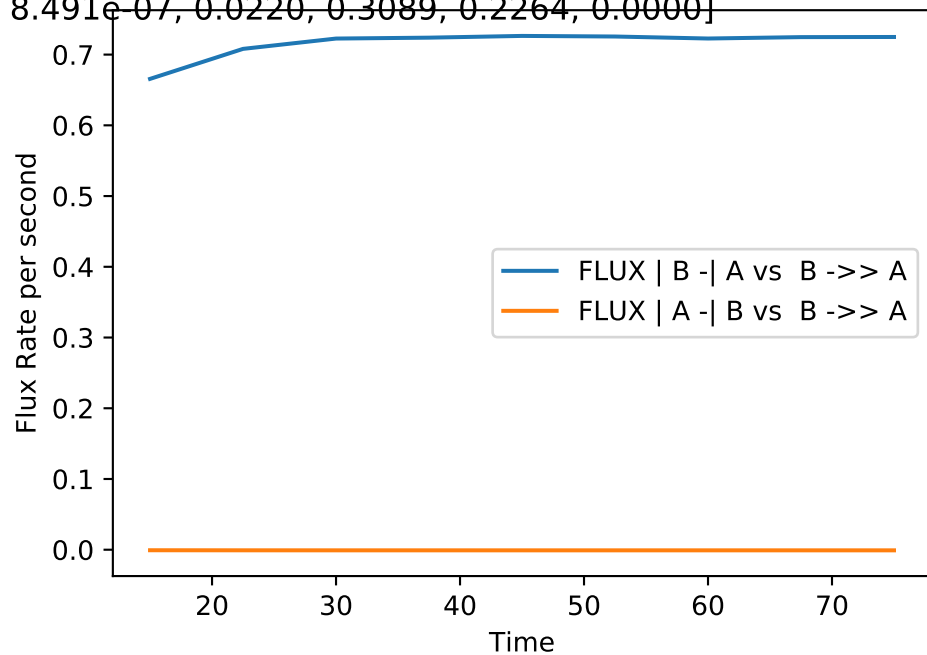
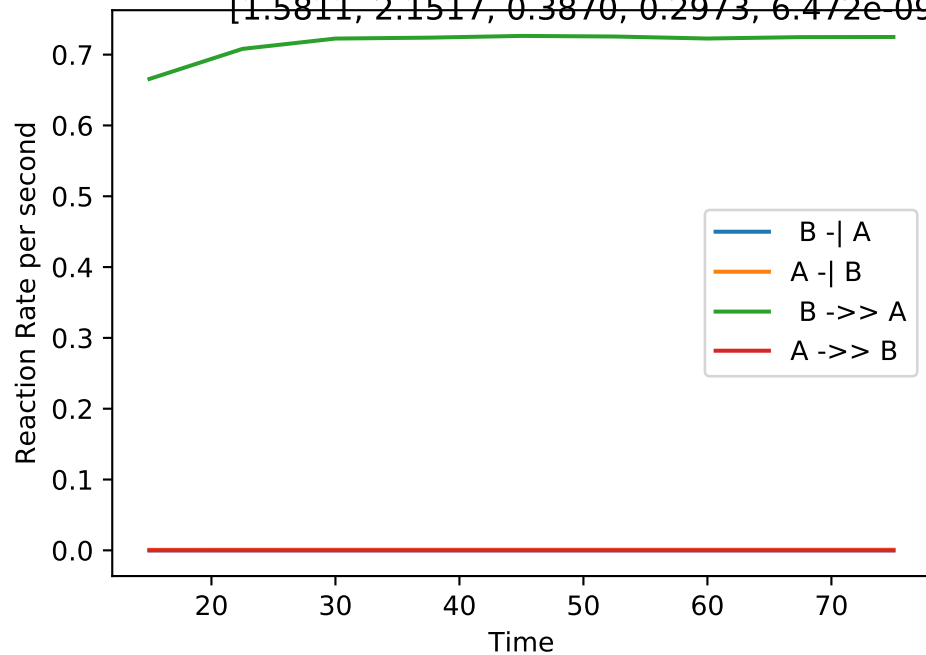
70

Time



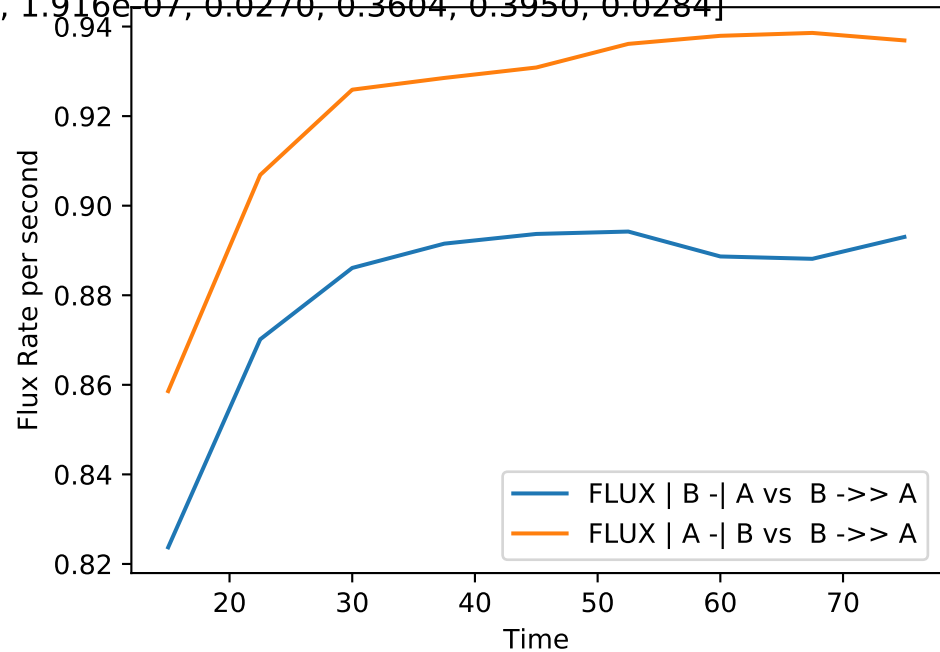
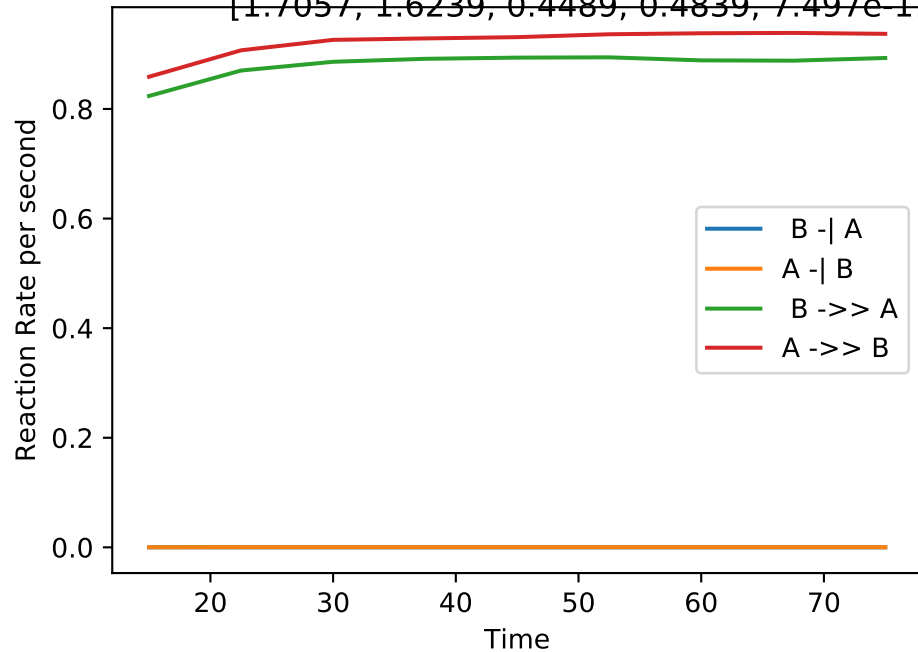
Double_up | MB-LLS Double_up(#87):

[1.5811, 2.1517, 0.3870, 0.2973, 6.472e-09, 8.491e-07, 0.0220, 0.3089, 0.2264, 0.0000]



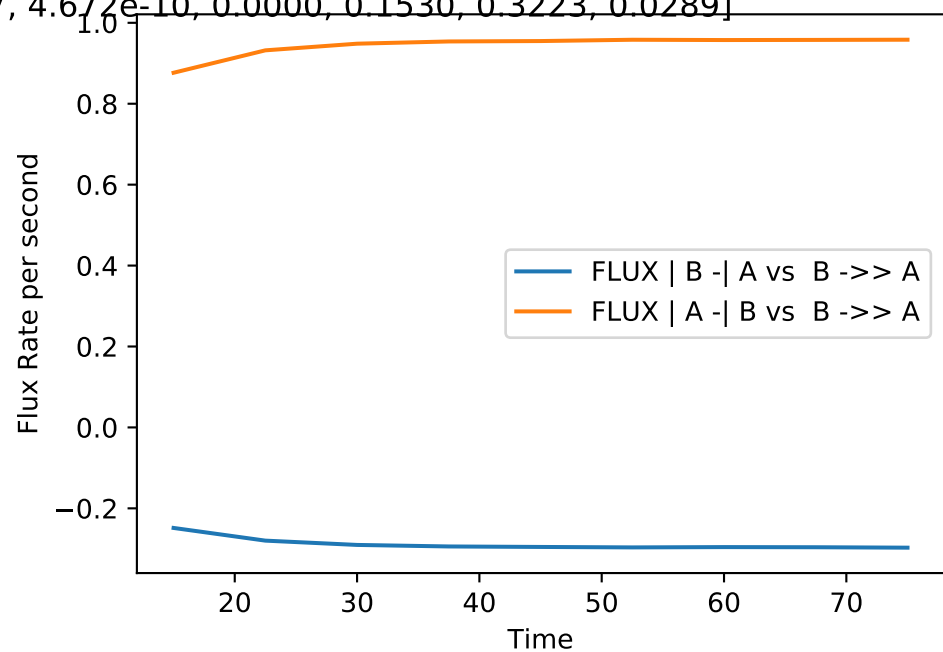
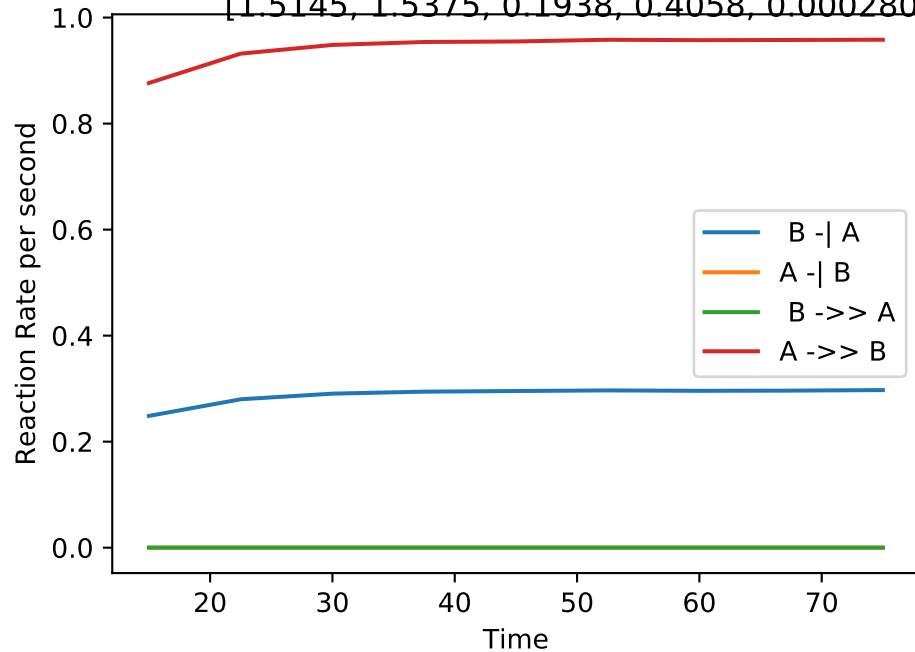
Double_up | MB-LLS Double_up(#88):

[1.7057, 1.6239, 0.4489, 0.4839, 7.497e-11, 1.916e-07, 0.0270, 0.3604, 0.3950, 0.0284]



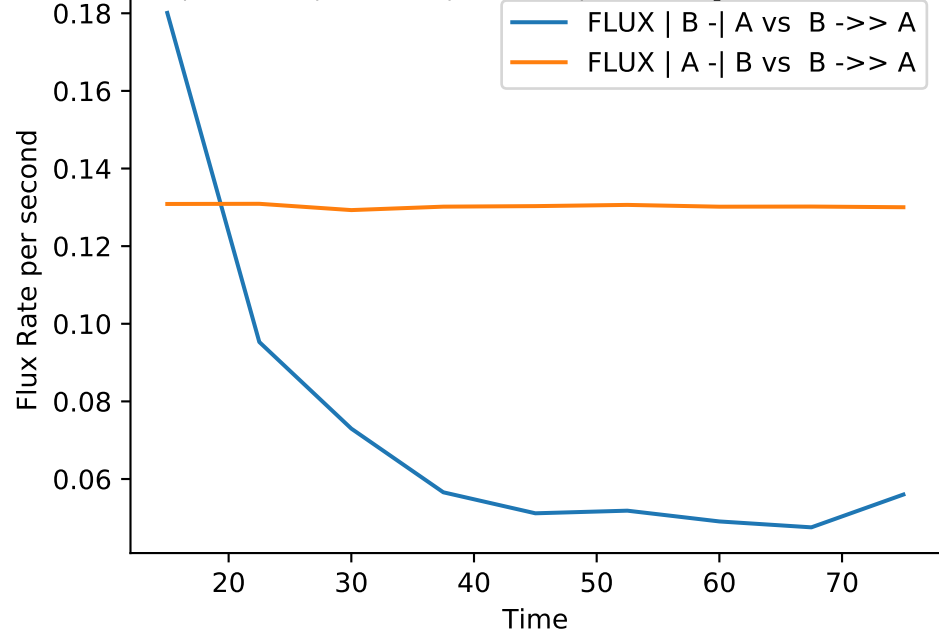
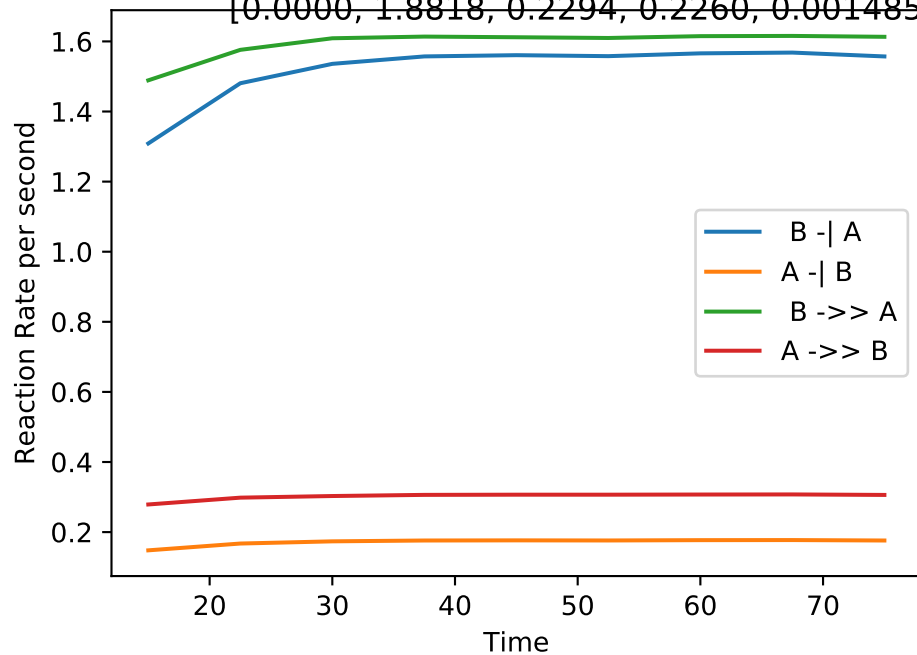
Double_up | MB-LLS Double_up(#89):

[1.5145, 1.5375, 0.1938, 0.4058, 0.0002807, 4.672e-10, 0.0000, 0.1530, 0.3223, 0.0289]



Double_up | MB-LLS Double_up(#90):

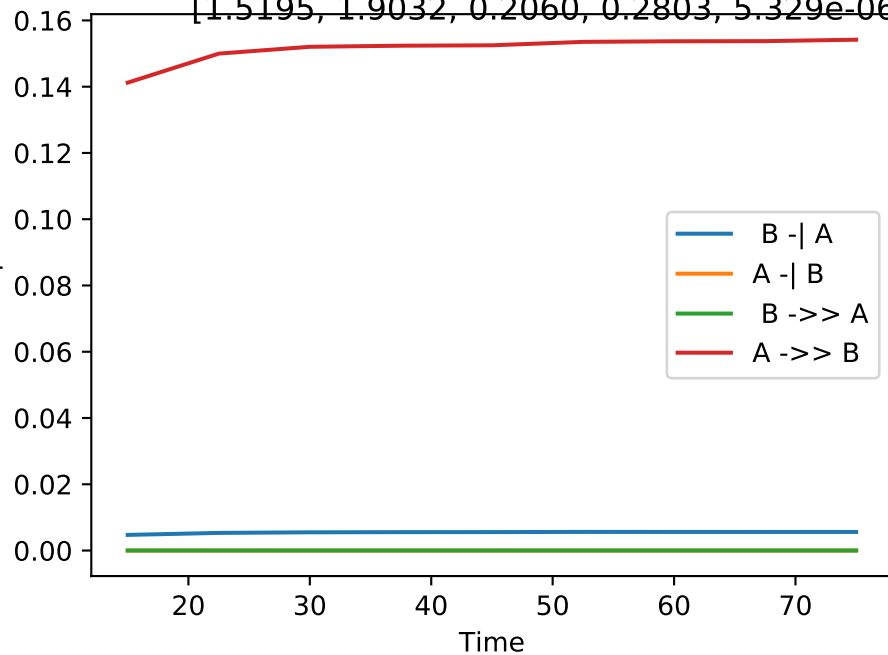
[0.0000, 1.8818, 0.2294, 0.2260, 0.001485, 0.0001679, 0.0490, 0.2208, 0.1632, 0.0093]



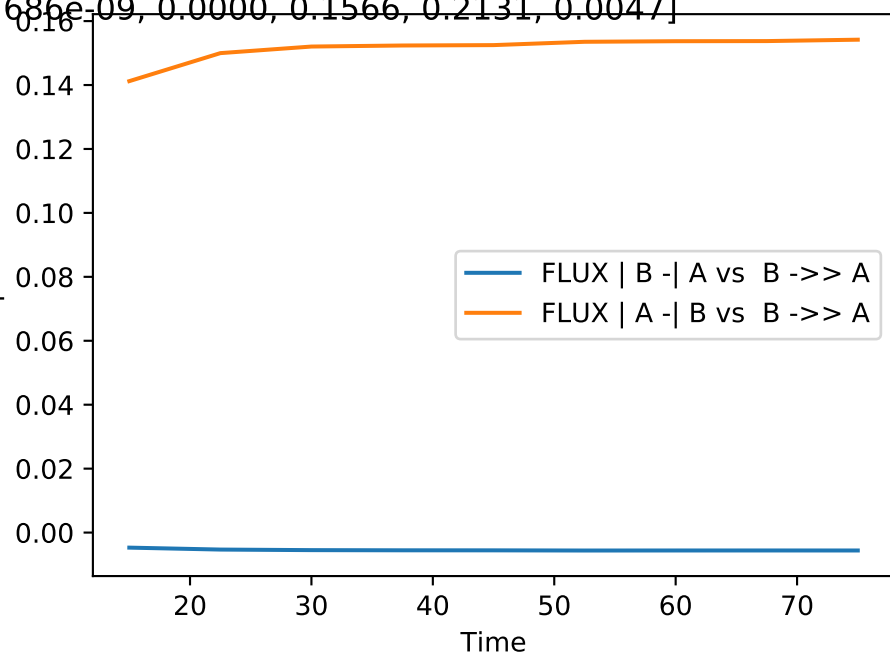
Double_up | MB-LLS Double_up(#91):

[1.5195, 1.9032, 0.2060, 0.2803, 5.329e-06, 2.686e-09, 0.0000, 0.1566, 0.2131, 0.0047]

Reaction Rate per second

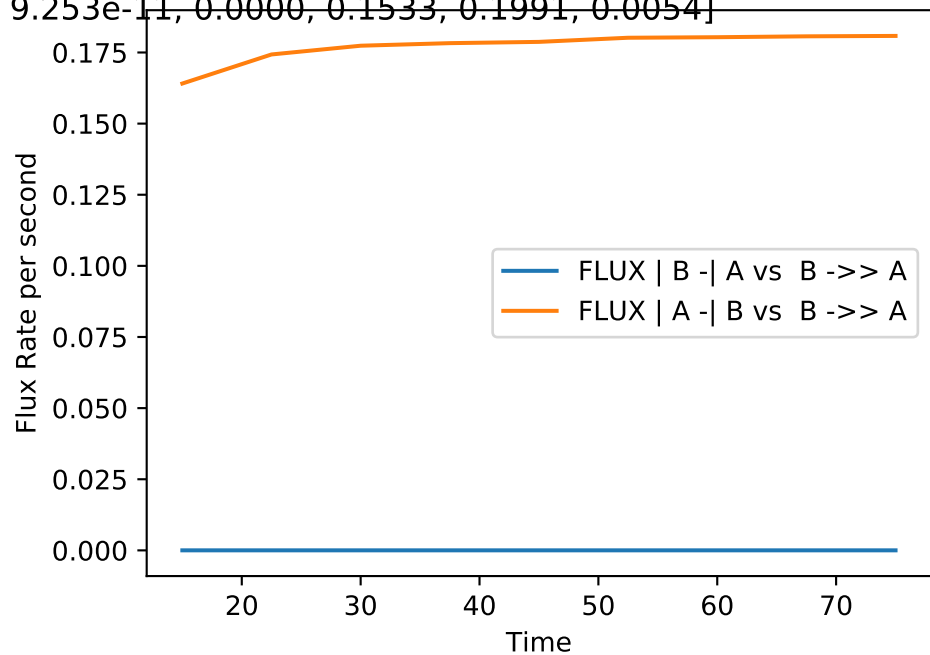
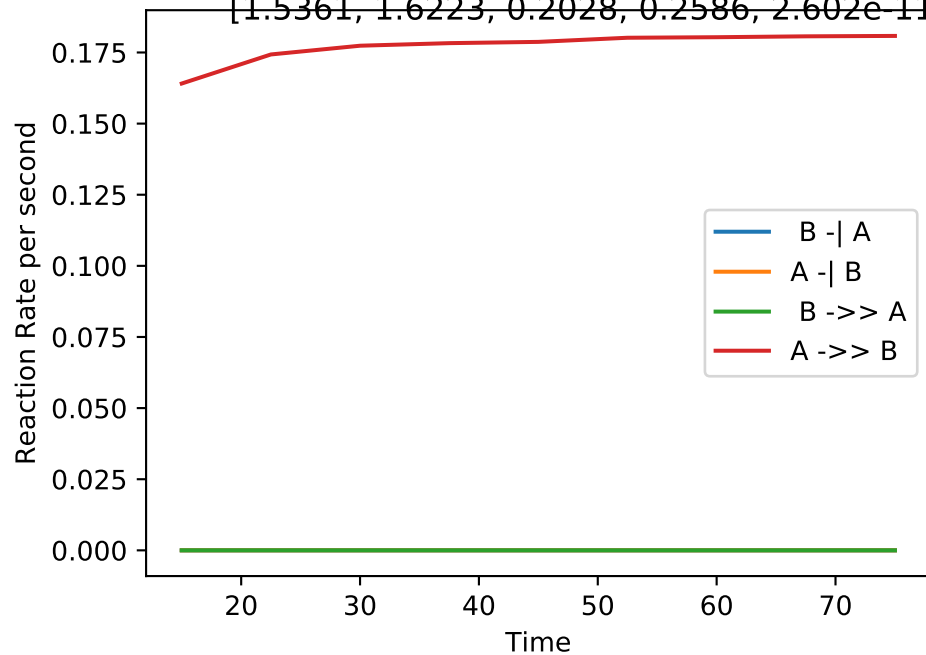


Flux Rate per second



Double_up | MB-LLS Double_up(#92):

[1.5361, 1.6223, 0.2028, 0.2586, 2.602e-11, 9.253e-11, 0.0000, 0.1533, 0.1991, 0.0054]



Double_up | MB-LLS Double_up(#93):

[1.7948, 1.3576, 0.2711, 0.6293, 2.25e-05, 2.824e-09, 0.0000, 0.2115, 0.5170, 0.0567]

Reaction Rate per second

1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00

20

30

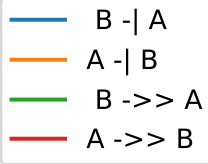
40

50

60

70

Time



Flux Rate per second

1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00

20

30

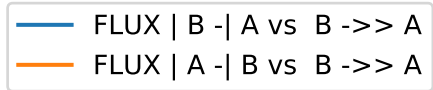
40

50

60

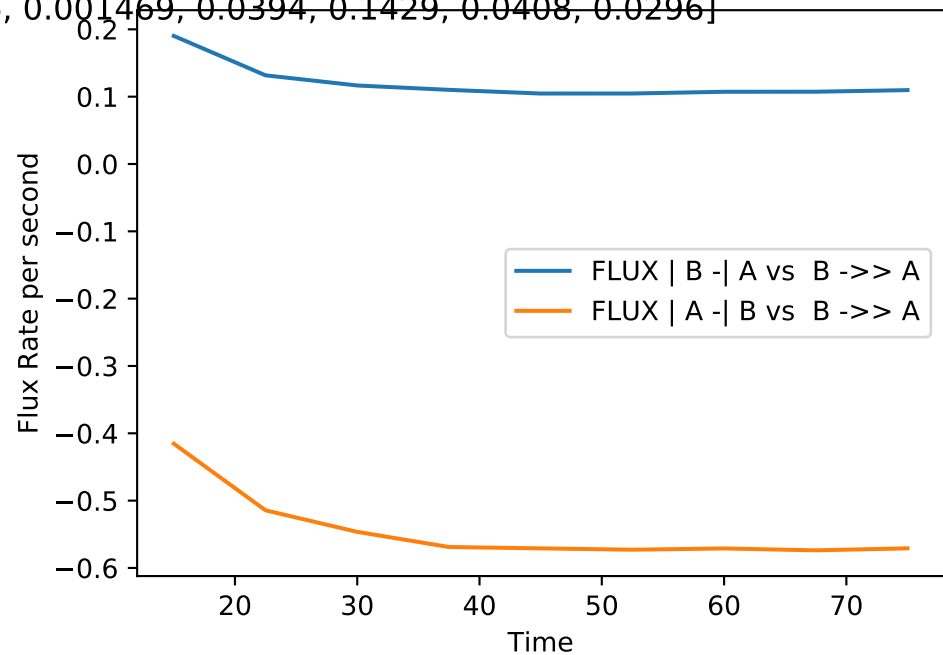
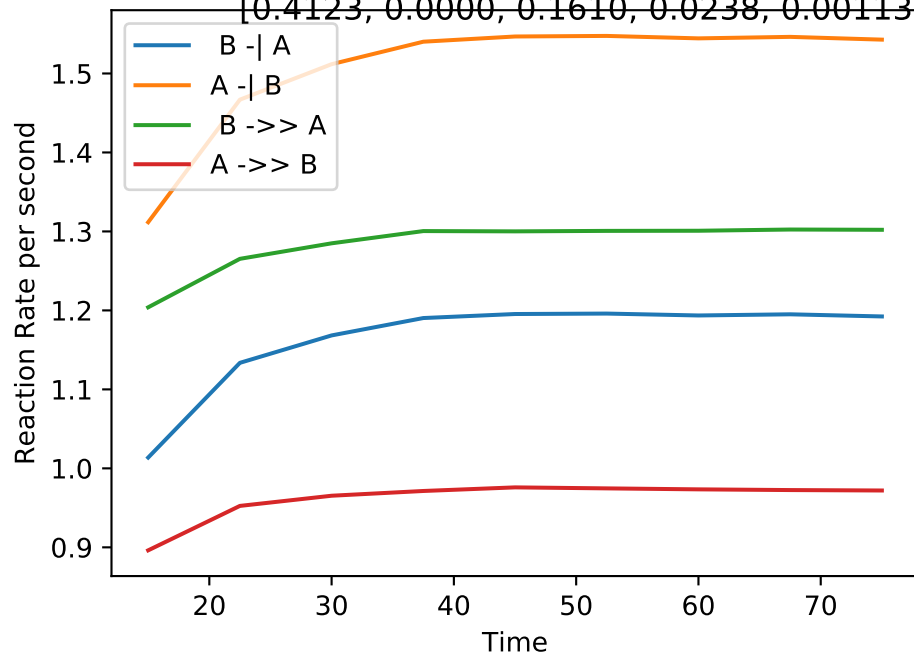
70

Time



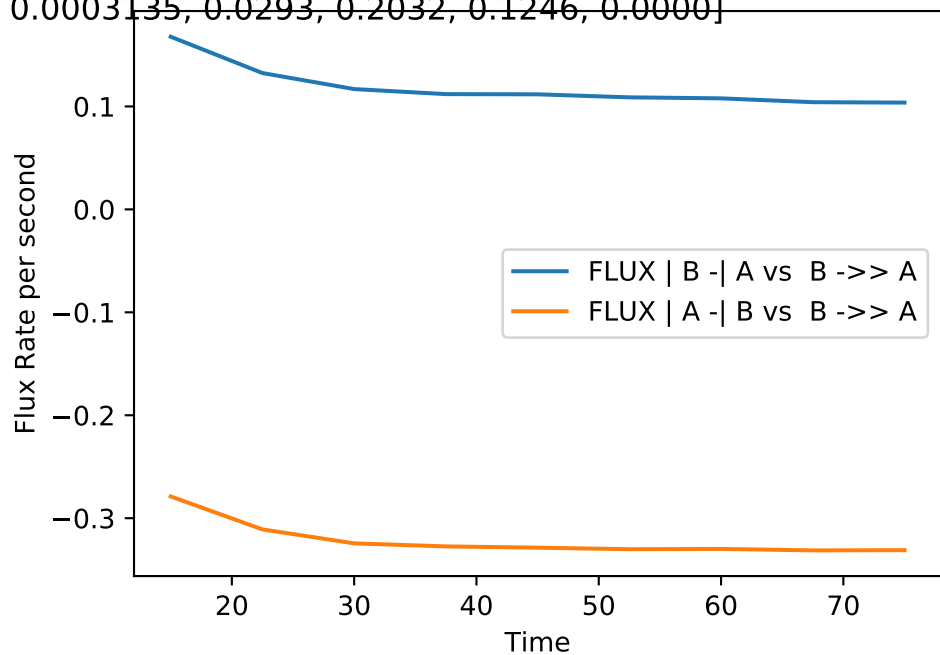
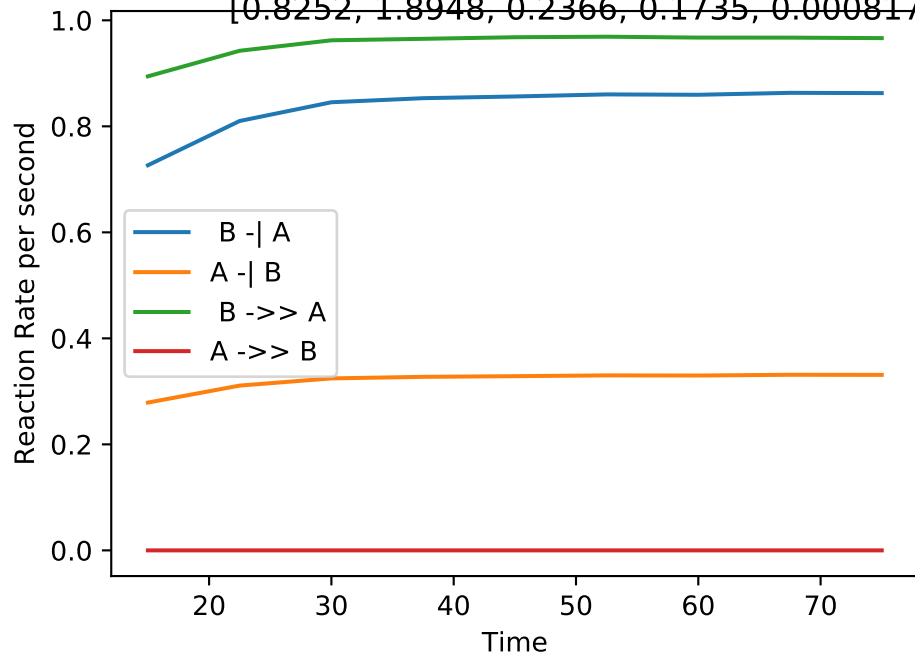
Double_up | MB-LLS Double_up(#94):

[0.4123, 0.0000, 0.1610, 0.0238, 0.001136, 0.001469, 0.0394, 0.1429, 0.0408, 0.0296]



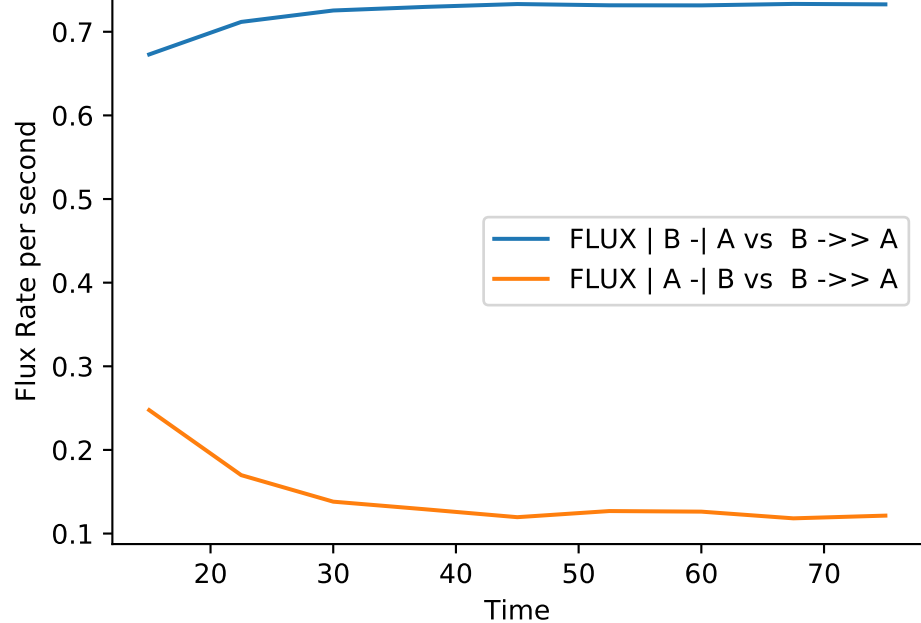
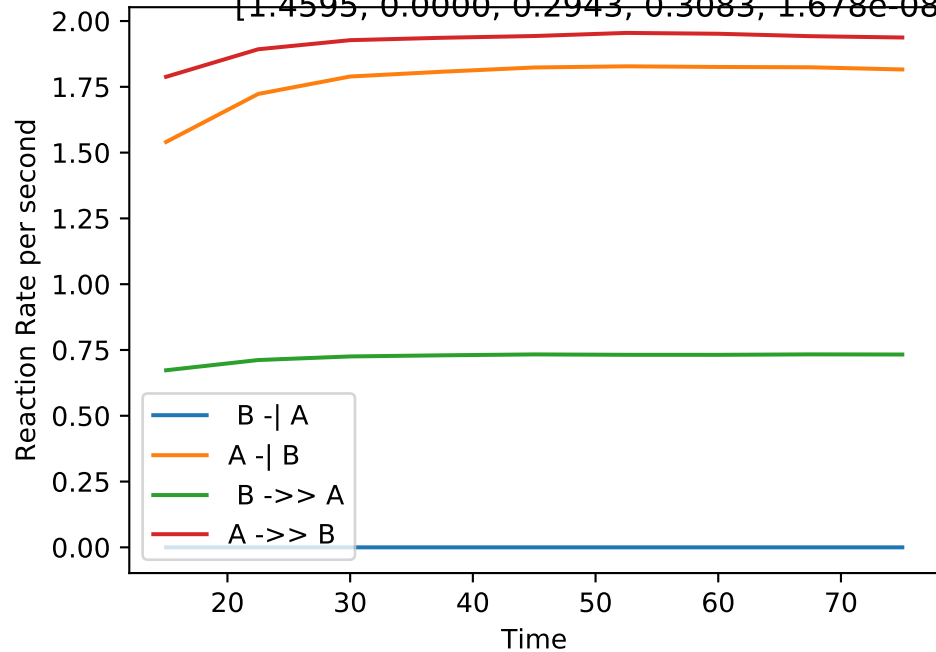
Double_up | MB-LLS Double_up(#95):

[0.8252, 1.8948, 0.2366, 0.1735, 0.000817, 0.0003135, 0.0293, 0.2032, 0.1246, 0.0000]



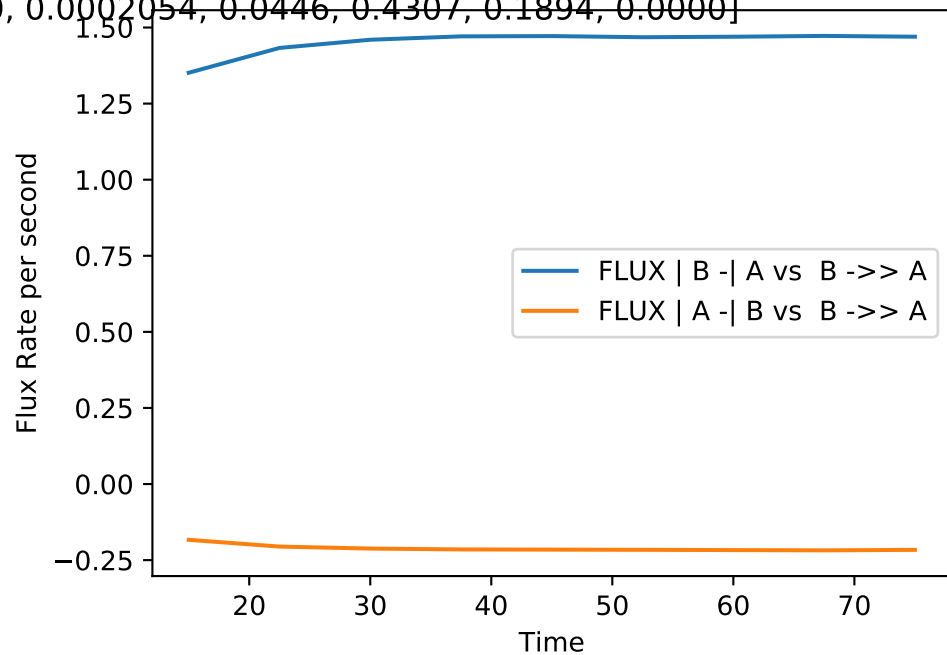
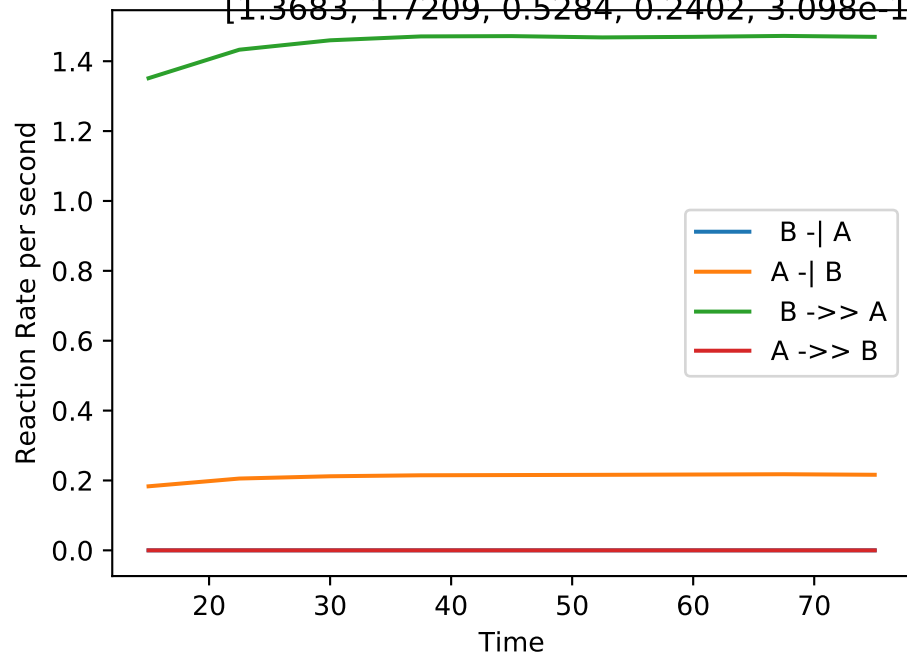
Double_up | MB-LLS Double_up(#96):

[1.4595, 0.0000, 0.2943, 0.3083, 1.678e-08, 0.001733, 0.0222, 0.2242, 0.2947, 0.0589]



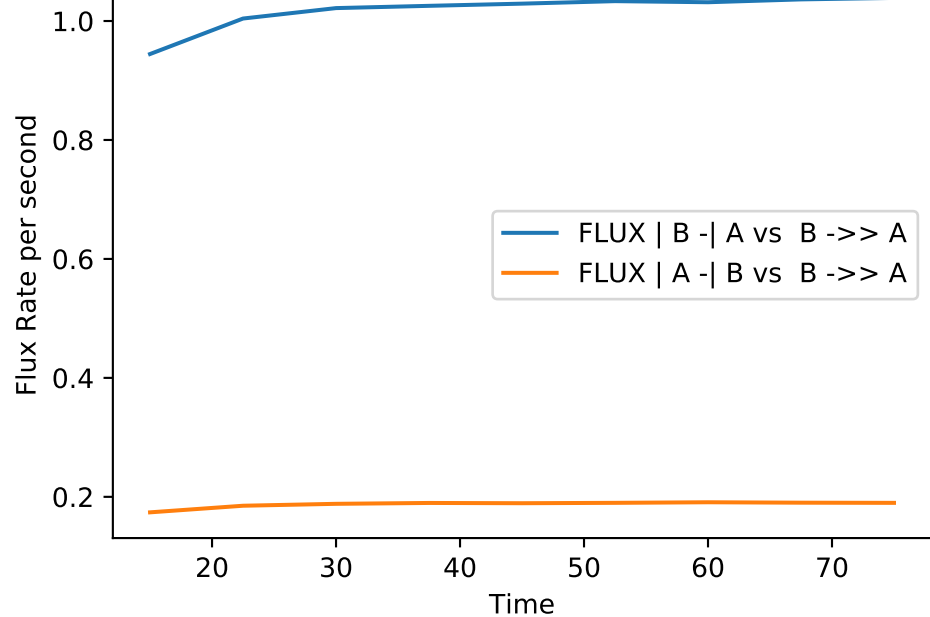
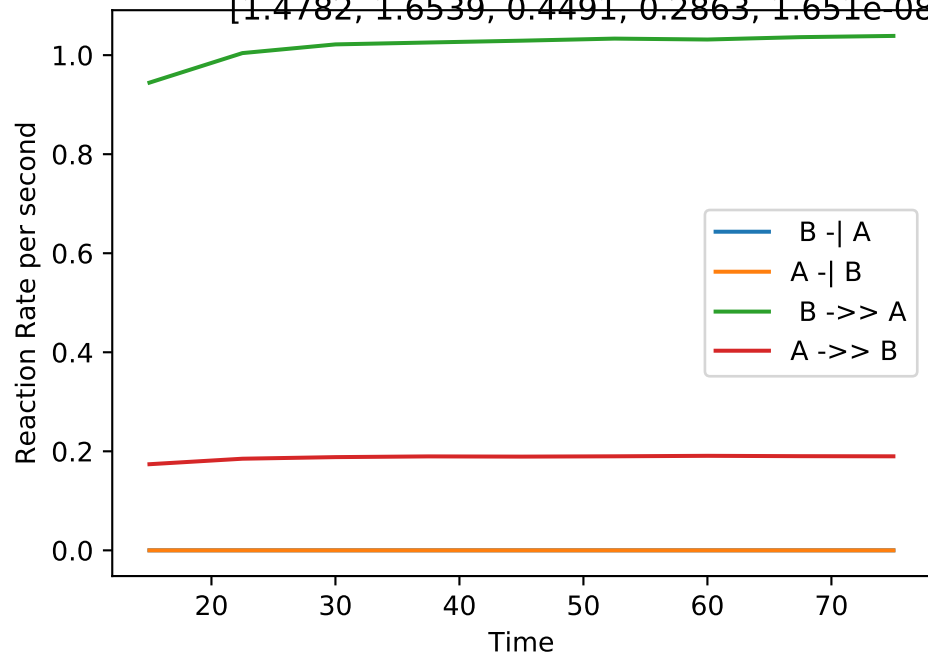
Double_up | MB-LLS Double_up(#97):

[1.3683, 1.7209, 0.5284, 0.2402, 3.098e-10, 0.0002054, 0.0446, 0.4307, 0.1894, 0.0000]



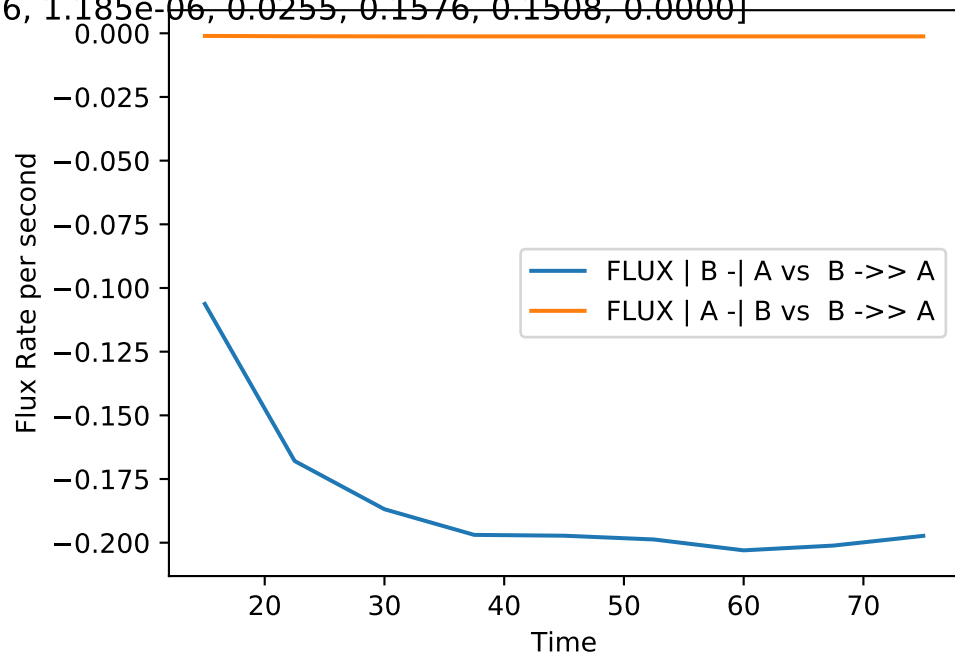
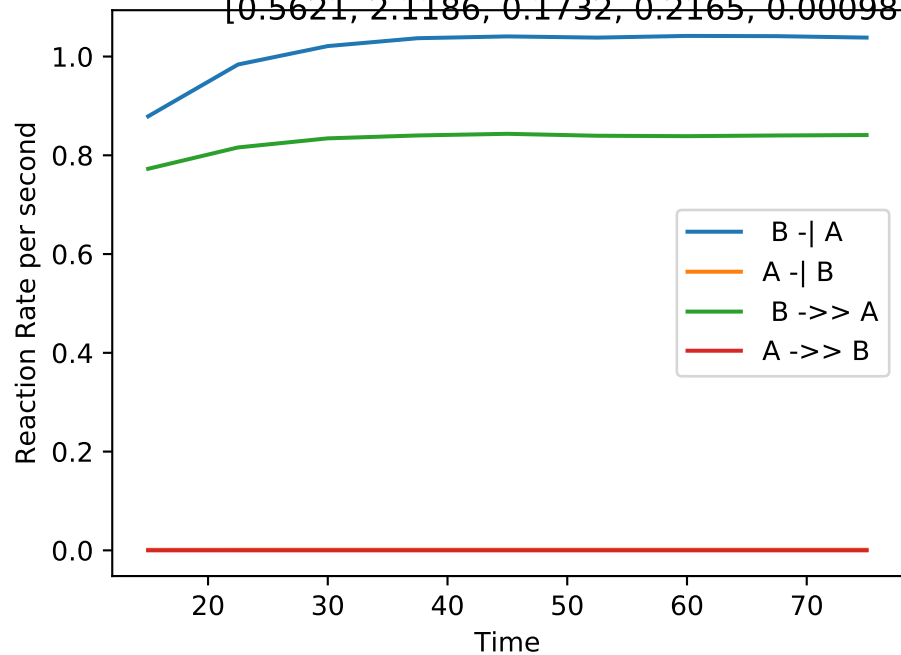
Double_up | MB-LLS Double_up(#98):

[1.4782, 1.6539, 0.4491, 0.2863, 1.651e-08, 8.136e-09, 0.0314, 0.3633, 0.2244, 0.0058]



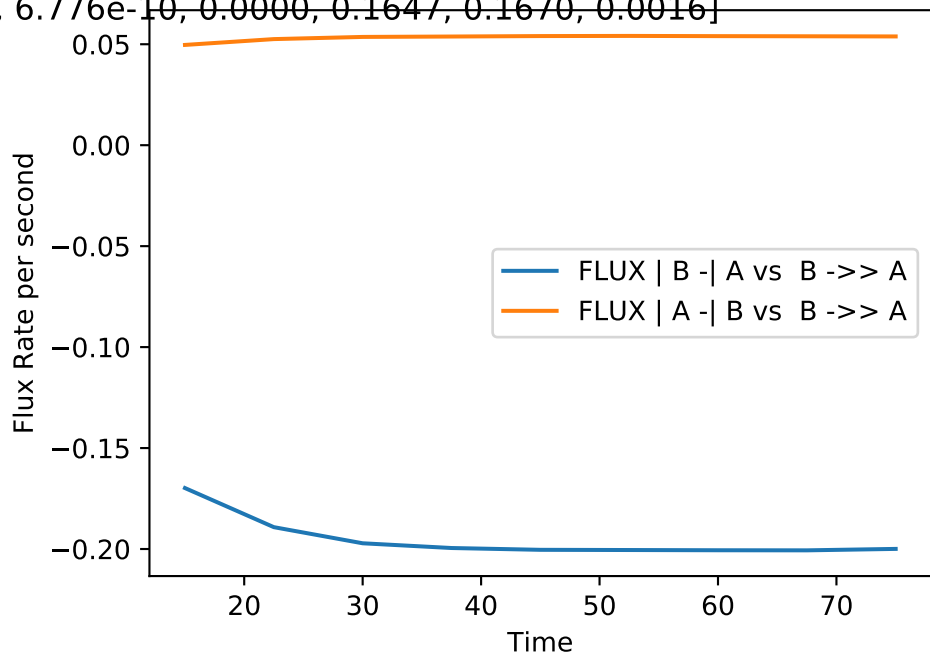
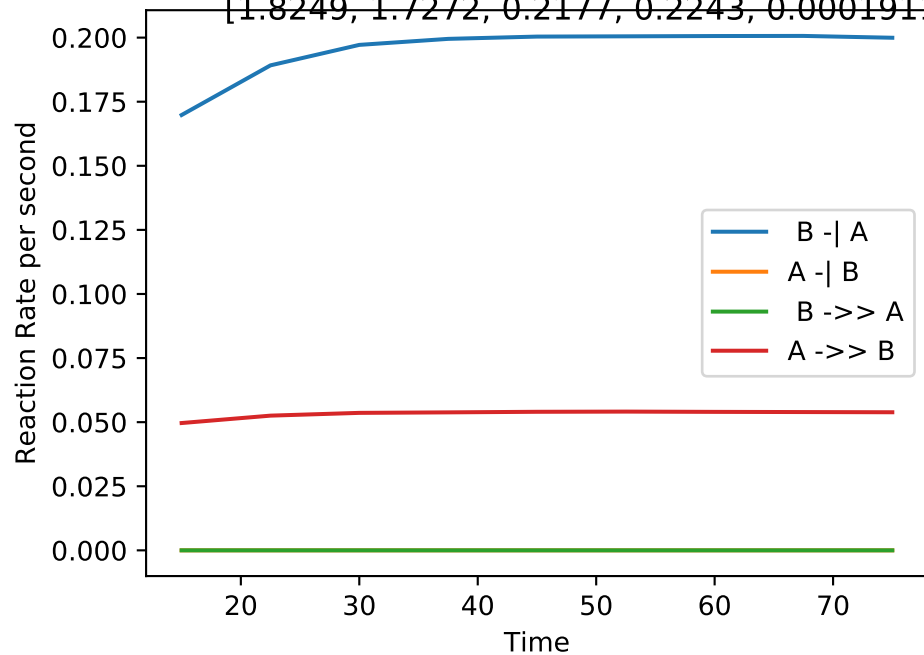
Double_up | MB-LLS Double_up(#99):

[0.5621, 2.1186, 0.1732, 0.2165, 0.0009876, 1.185e-06, 0.0255, 0.1576, 0.1508, 0.0000]



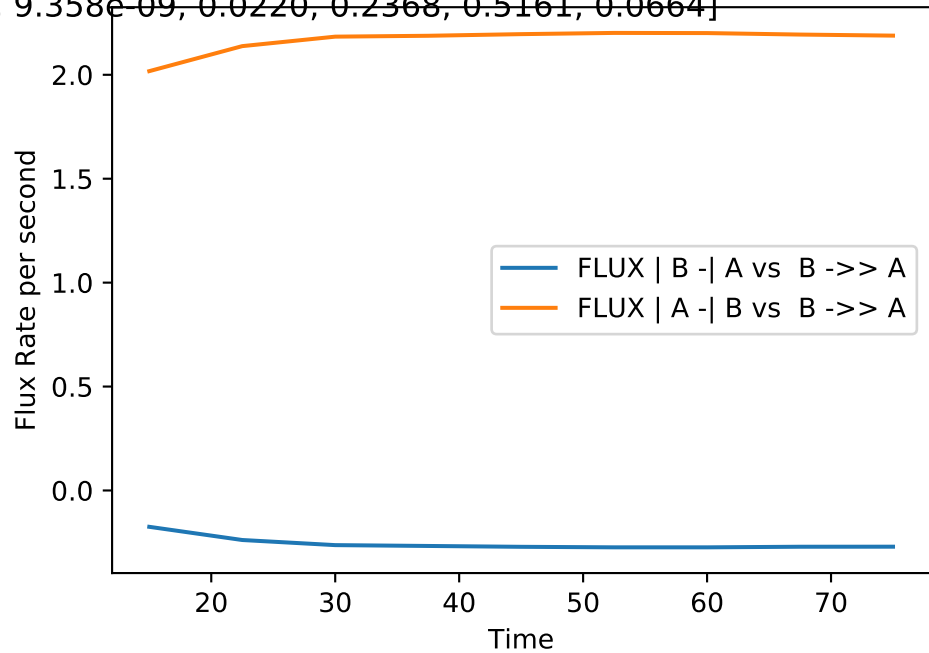
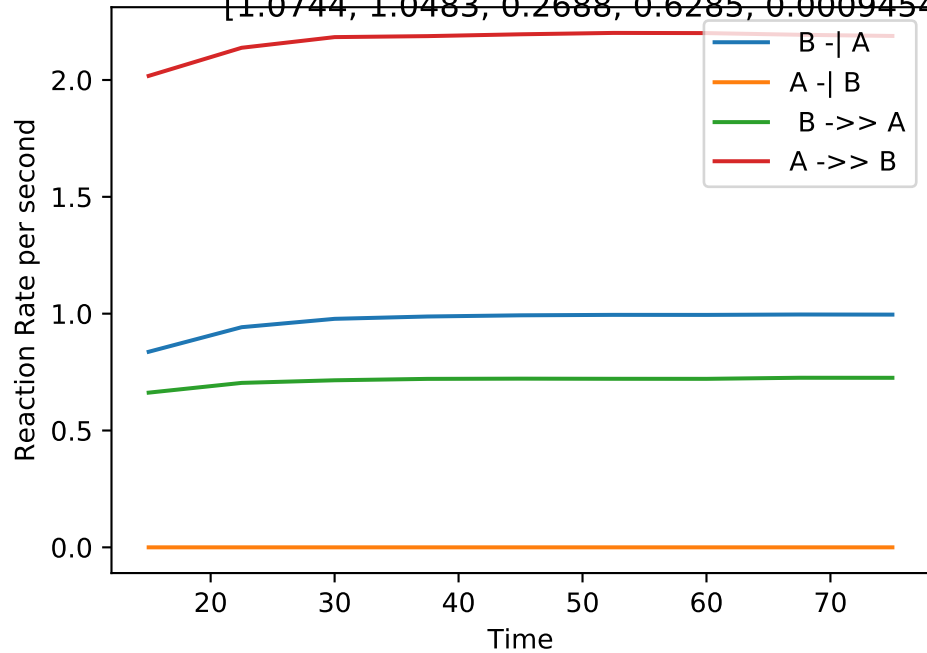
Double_up | MB-LLS Double_up(#100):

[1.8249, 1.7272, 0.2177, 0.2243, 0.0001911, 6.776e-10, 0.0000, 0.1647, 0.1670, 0.0016]



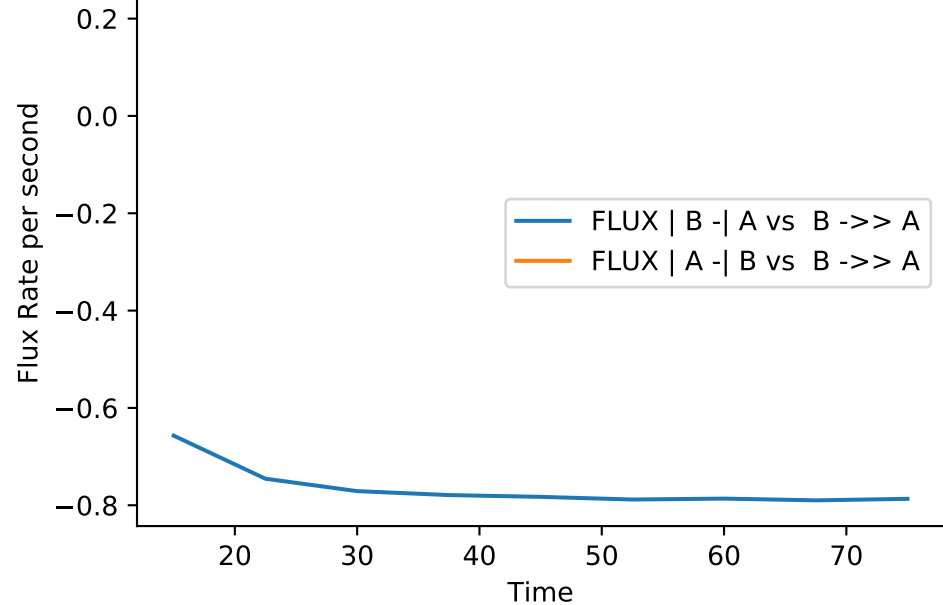
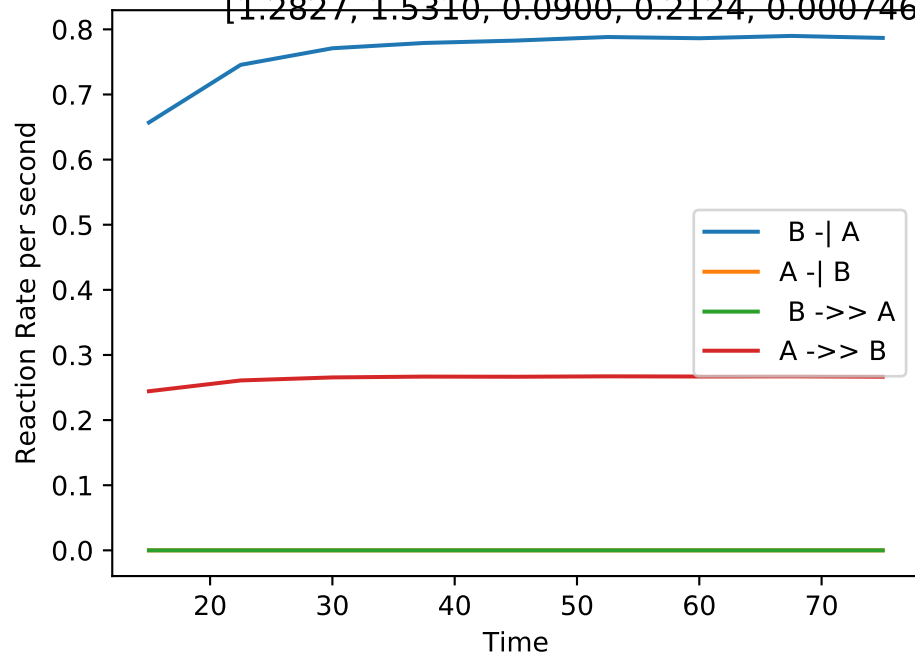
Double_up | MB-LLS Double_up(#101):

[1.0744, 1.0483, 0.2688, 0.6285, 0.0009454, 9.358e-09, 0.0220, 0.2368, 0.5161, 0.0664]



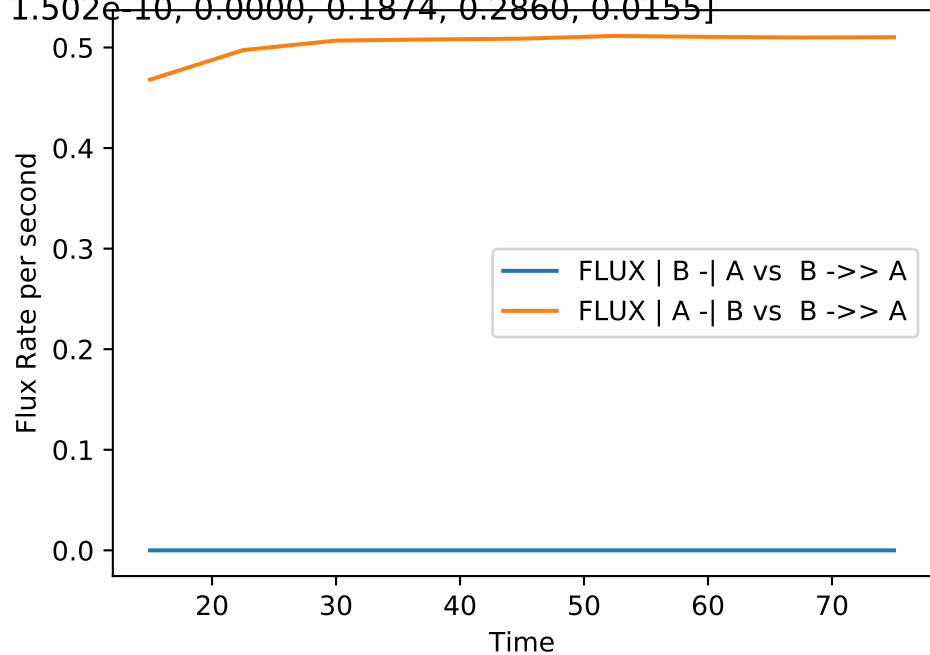
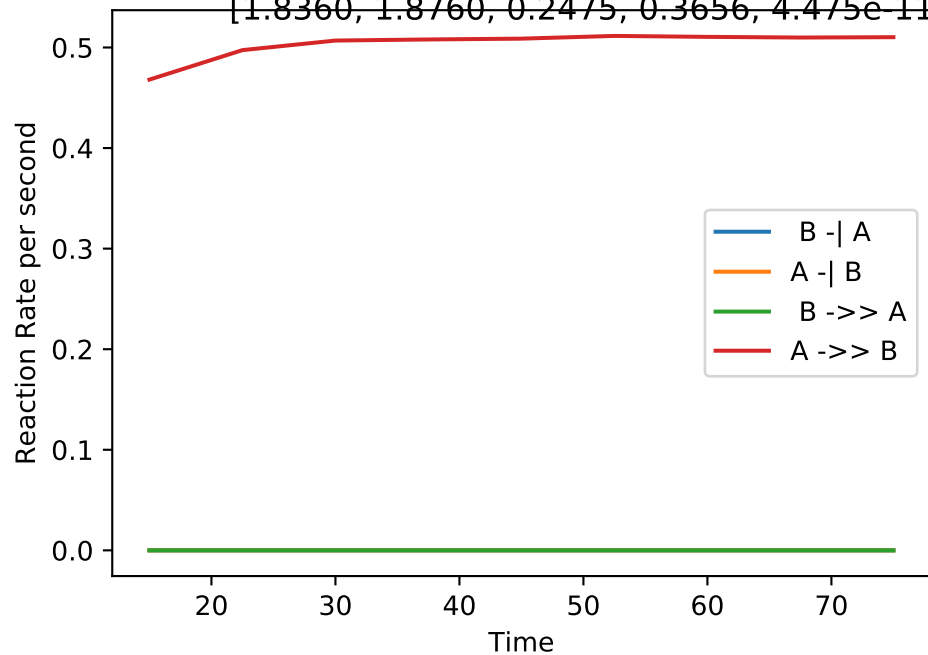
Double_up | MB-LLS Double_up(#102):

[1.2827, 1.5310, 0.0900, 0.2124, 0.0007469, 1.971e-09, 0.0000, 0.0734, 0.1558, 0.0081]



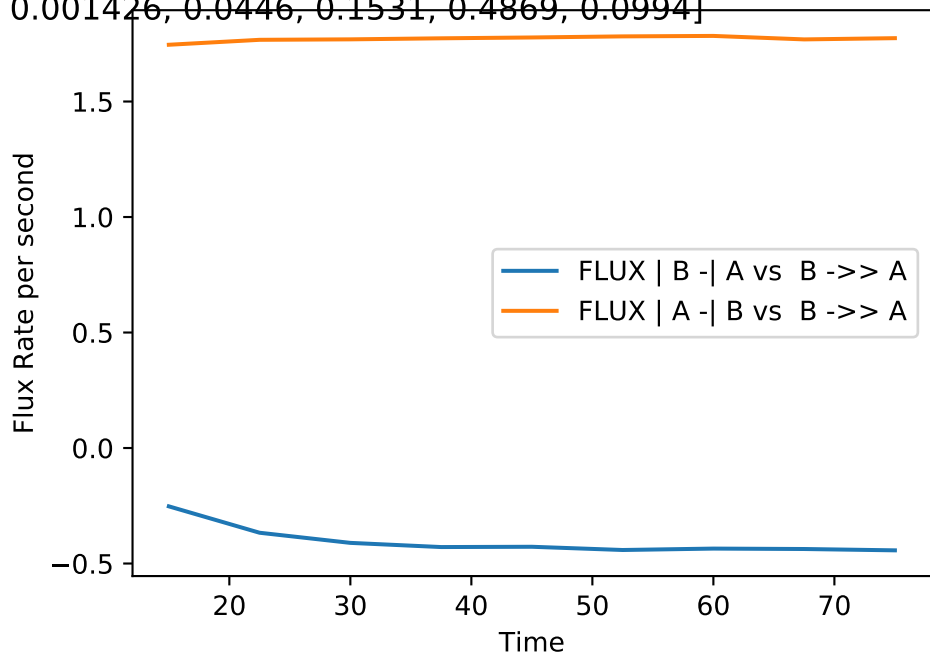
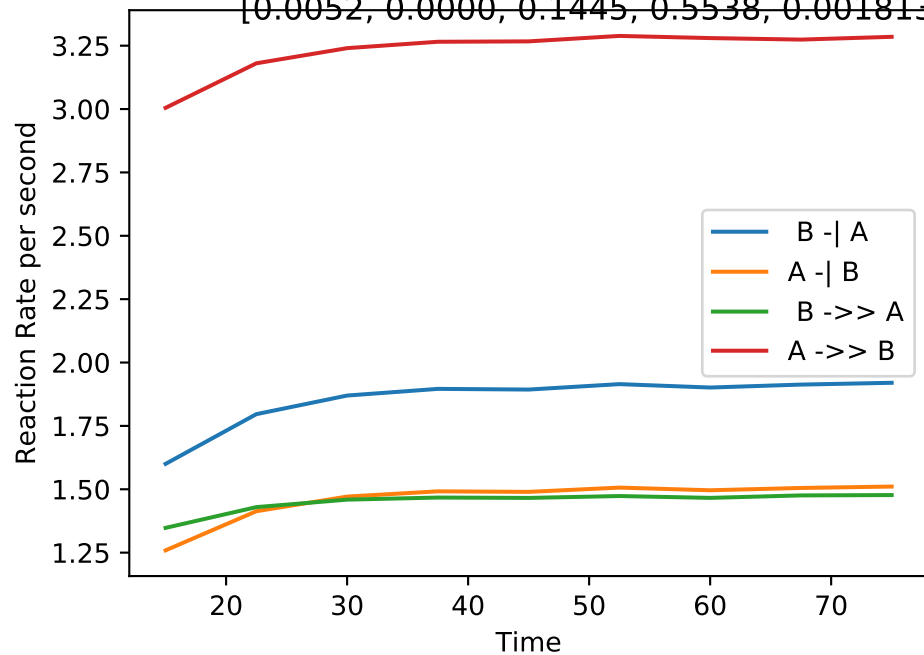
Double_up | MB-LLS Double_up(#103):

[1.8360, 1.8760, 0.2475, 0.3656, 4.475e-11, 1.502e-10, 0.0000, 0.1874, 0.2860, 0.0155]



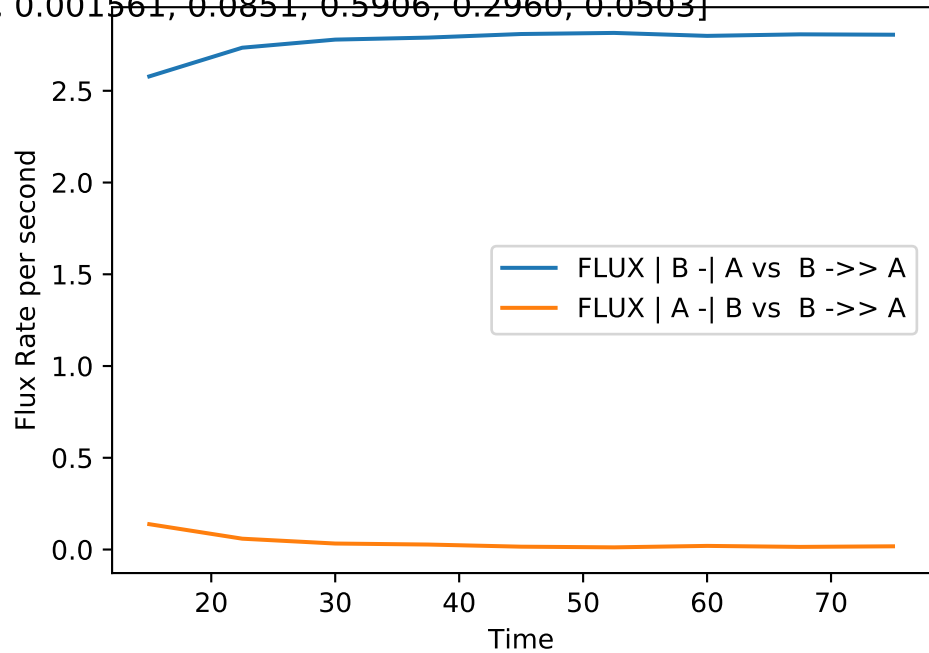
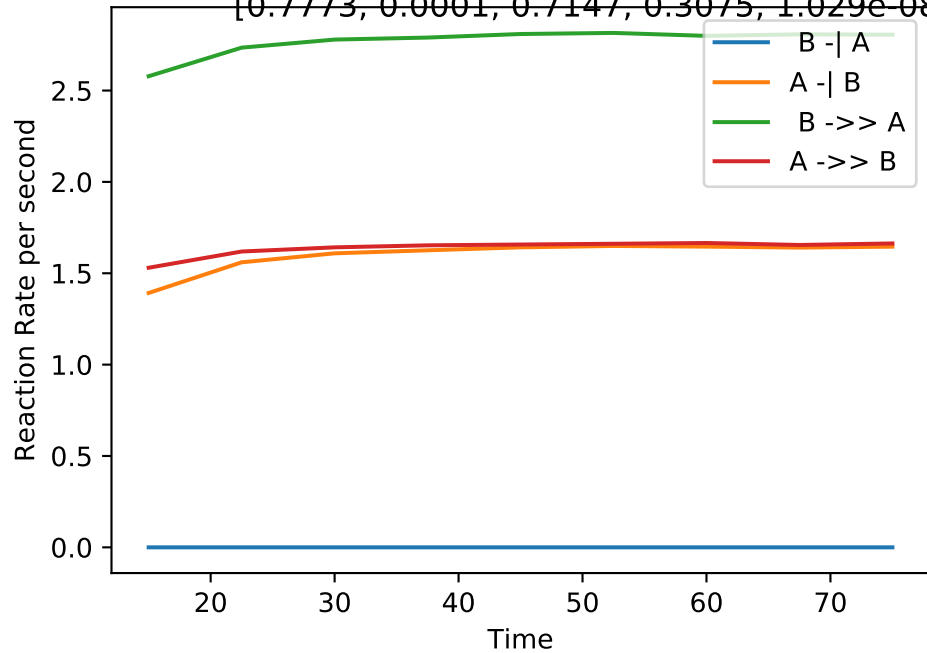
Double_up | MB-LLS Double_up(#104):

[0.0052, 0.0000, 0.1445, 0.5538, 0.001813, 0.001426, 0.0446, 0.1531, 0.4869, 0.0994]



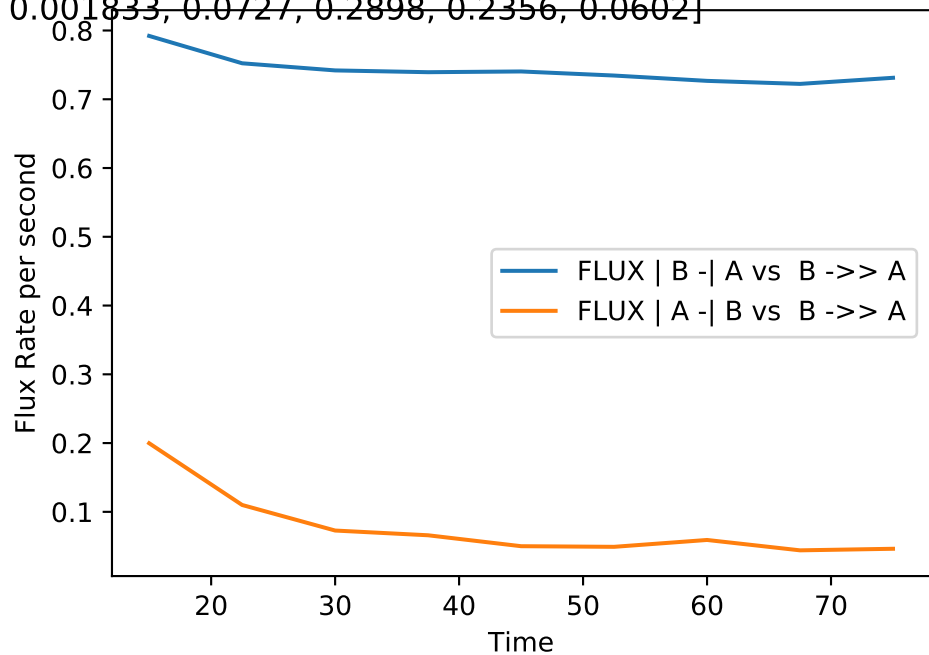
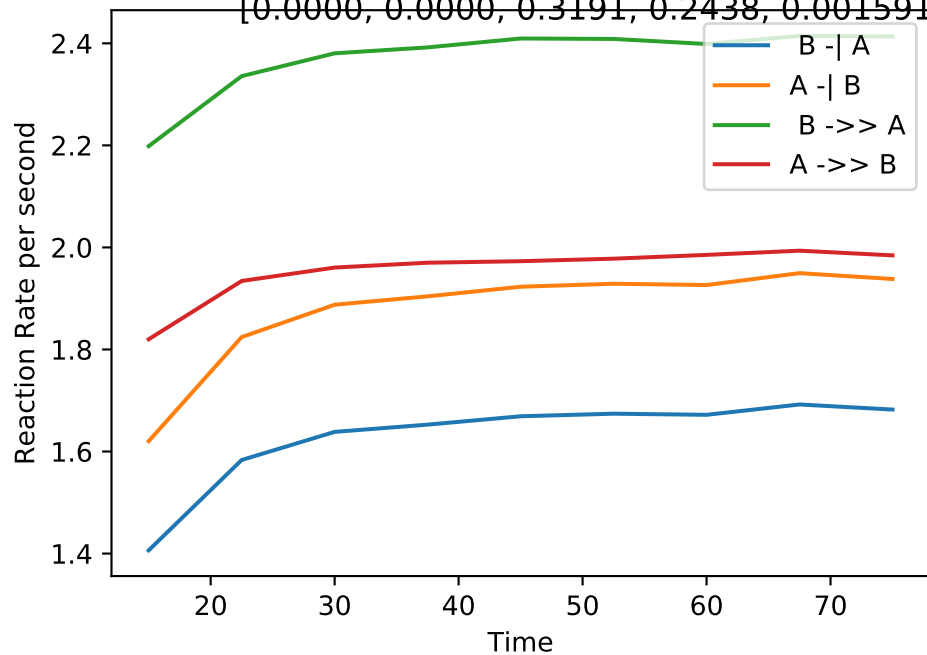
Double_up | MB-LLS Double_up(#105):

[0.7773, 0.0001, 0.7147, 0.3075, 1.029e-08, 0.001561, 0.0851, 0.5906, 0.2960, 0.0503]



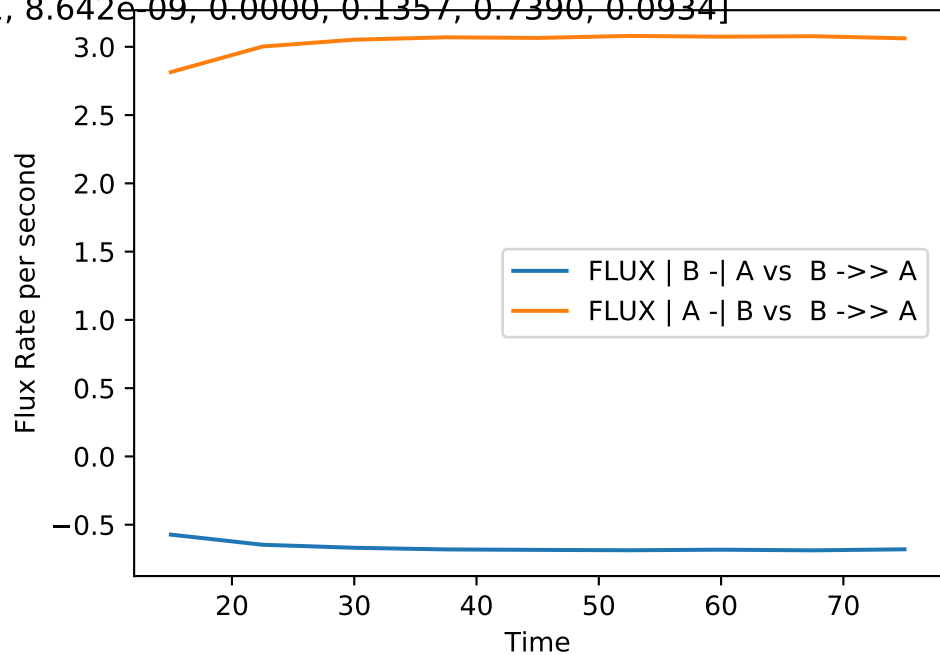
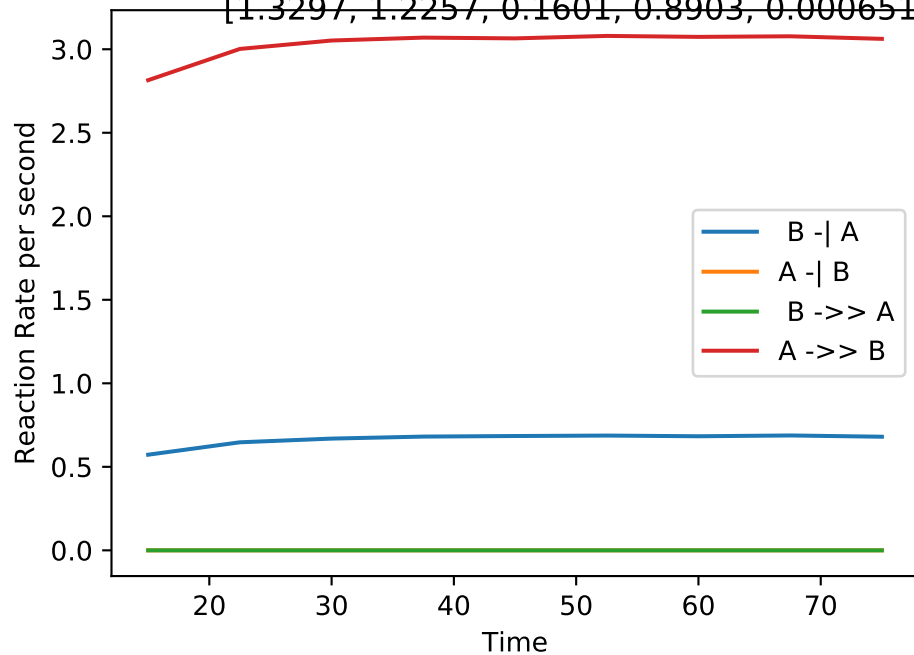
Double_up | MB-LLS Double_up(#106):

[0.0000, 0.0000, 0.3191, 0.2438, 0.001591, 0.001833, 0.0727, 0.2898, 0.2356, 0.0602]



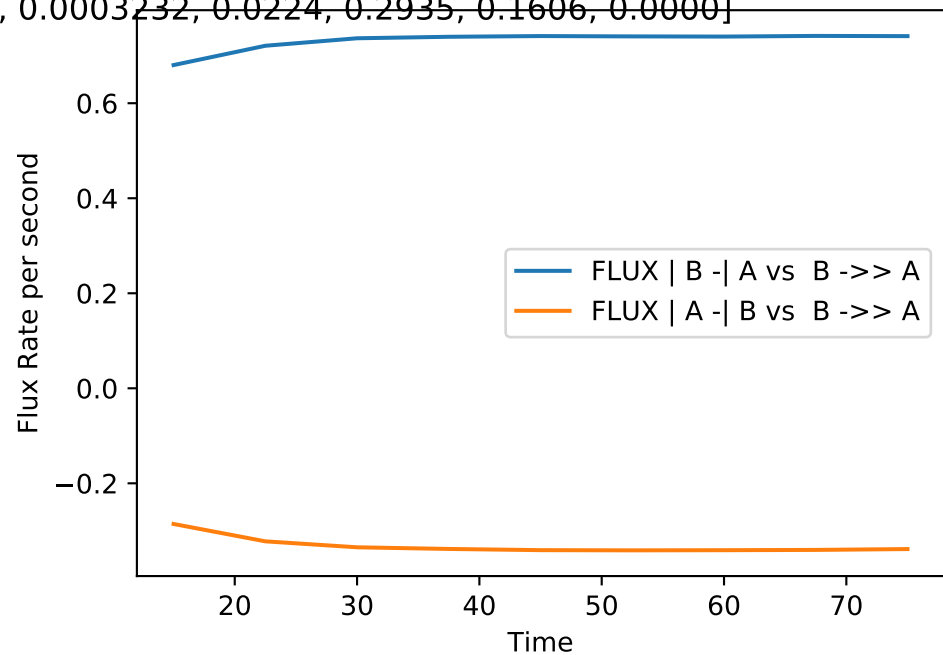
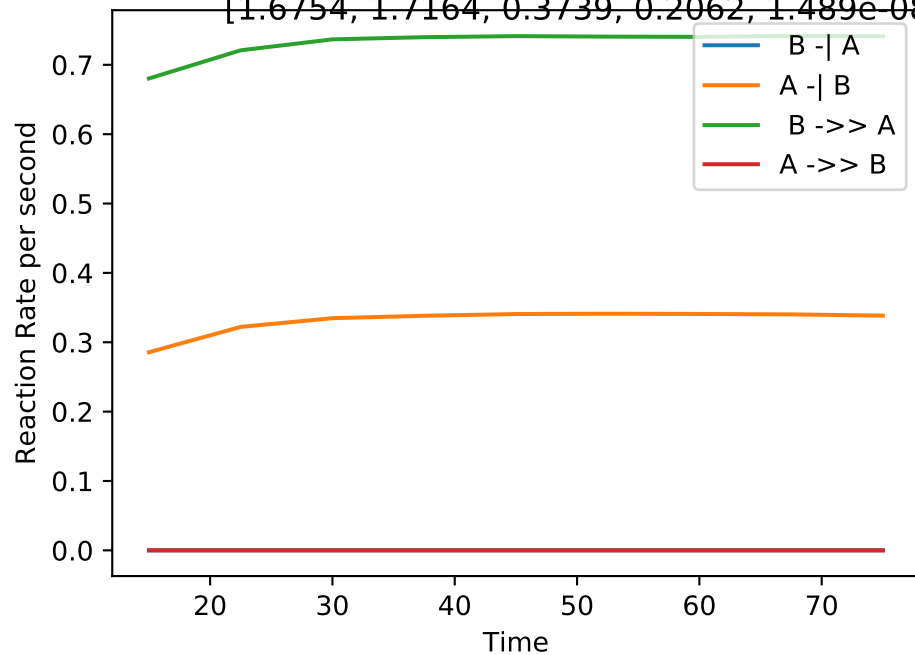
Double_up | MB-LLS Double_up(#107):

[1.3297, 1.2257, 0.1601, 0.8903, 0.0006511, 8.642e-09, 0.0000, 0.1357, 0.7390, 0.0934]



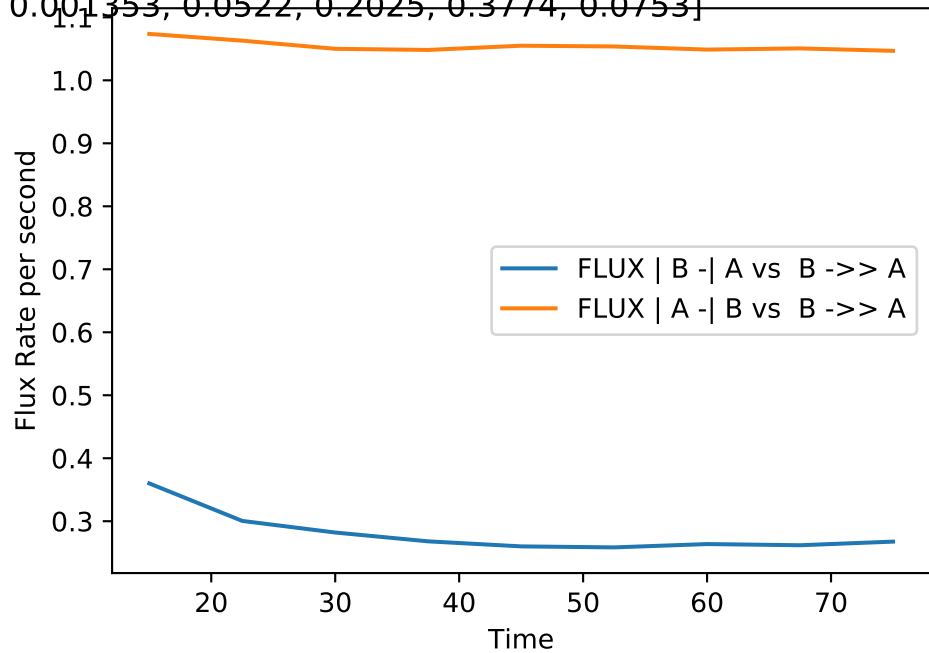
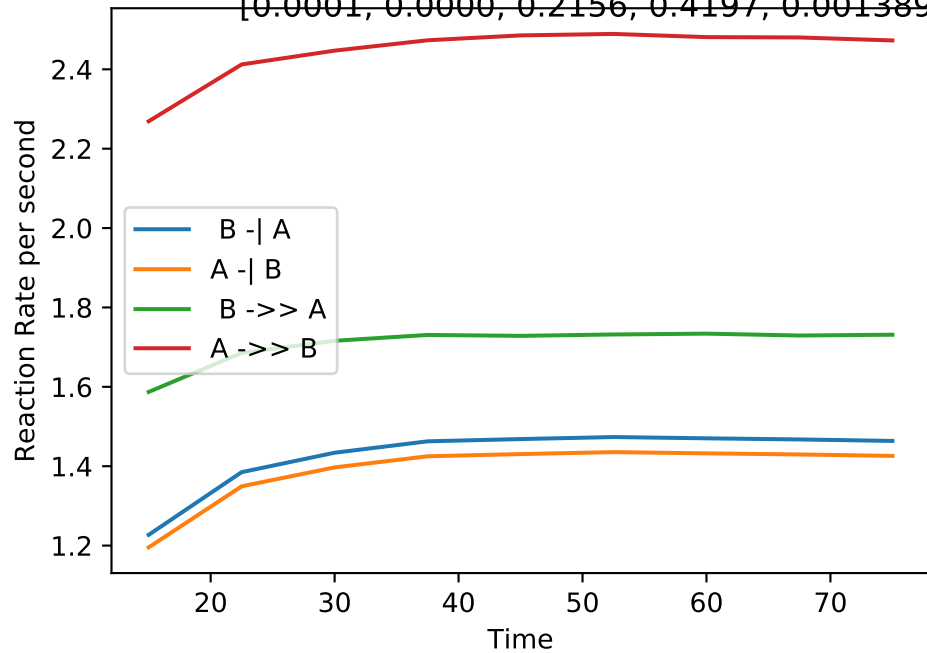
Double_up | MB-LLS Double_up(#108):

[1.6754, 1.7164, 0.3739, 0.2062, 1.489e-08, 0.0003232, 0.0224, 0.2935, 0.1606, 0.0000]



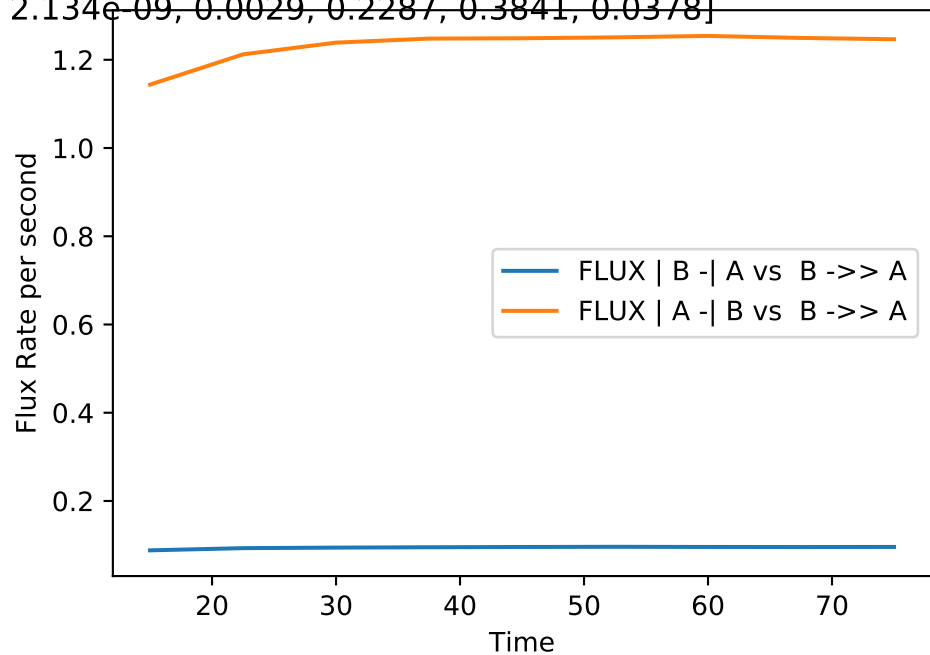
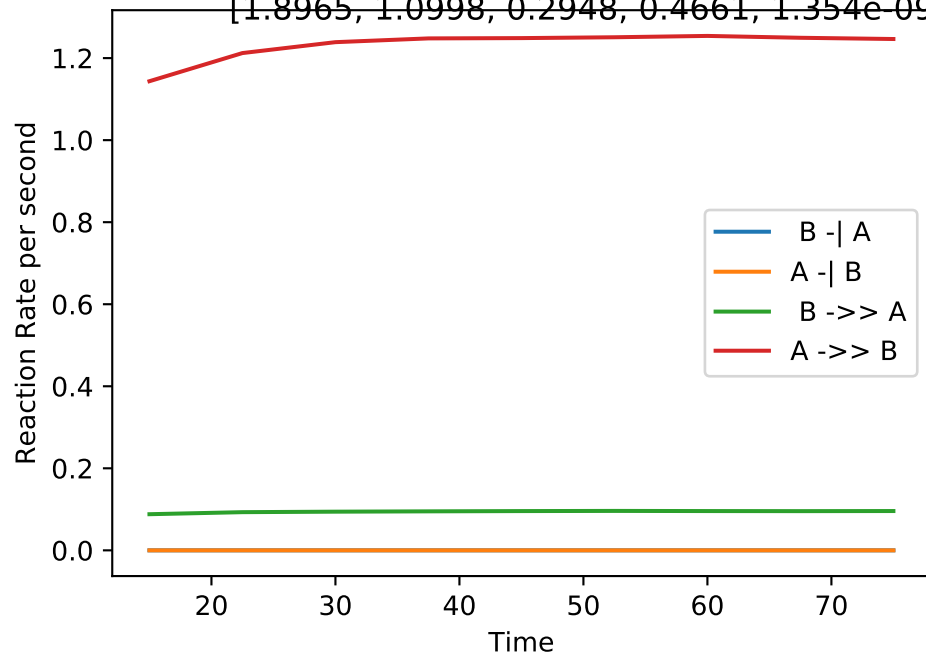
Double_up | MB-LLS Double_up(#109):

[0.0001, 0.0000, 0.2156, 0.4197, 0.001389, 0.001353, 0.0522, 0.2025, 0.3774, 0.0753]



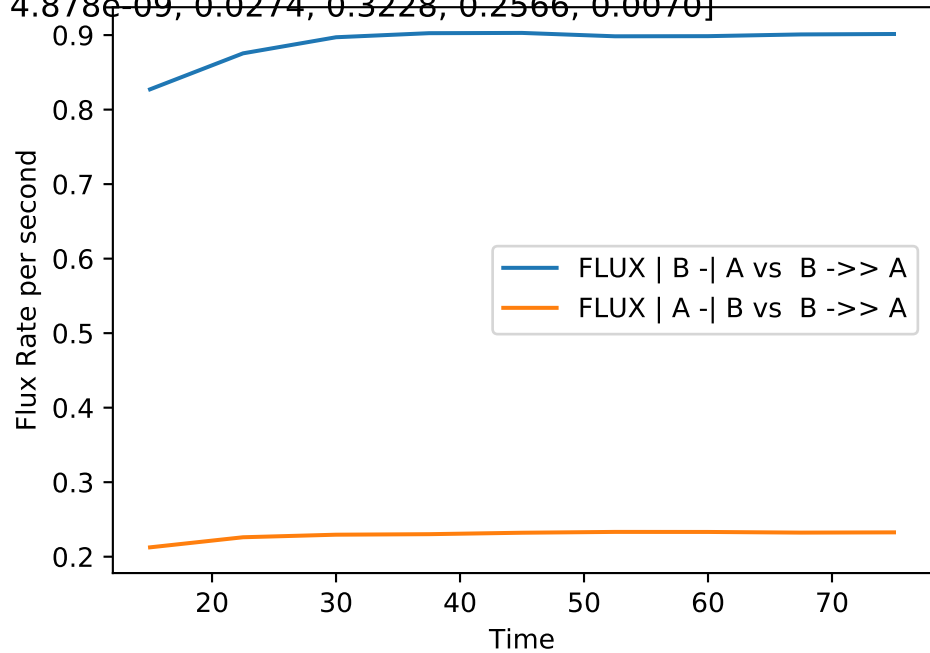
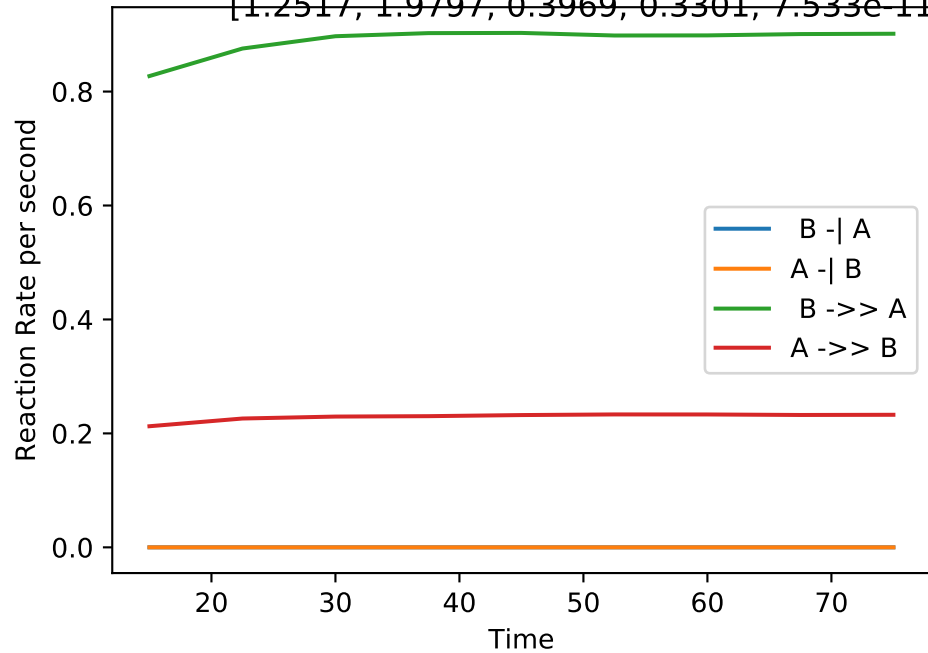
Double_up | MB-LLS Double_up(#110):

[1.8965, 1.0998, 0.2948, 0.4661, 1.354e-09, 2.134e-09, 0.0029, 0.2287, 0.3841, 0.0378]



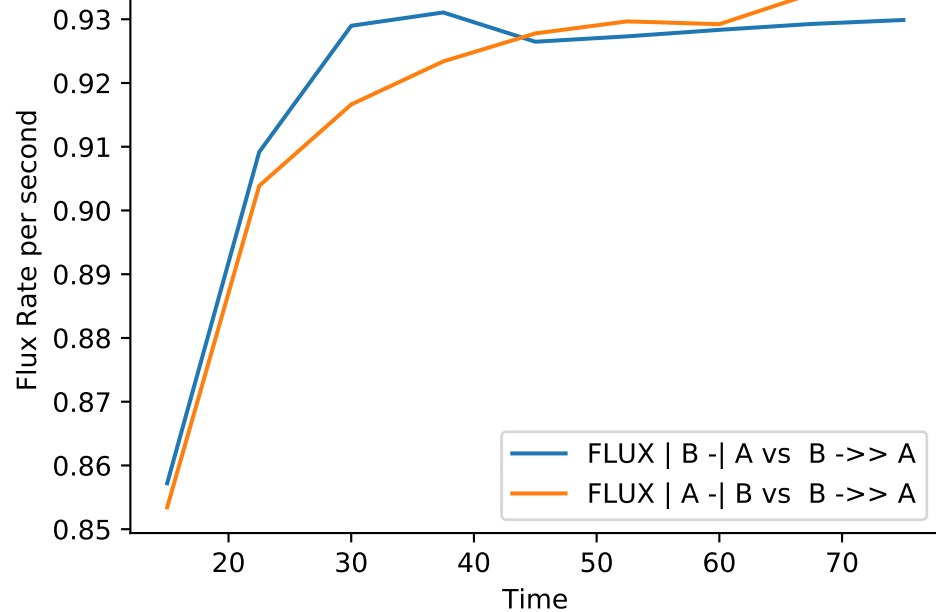
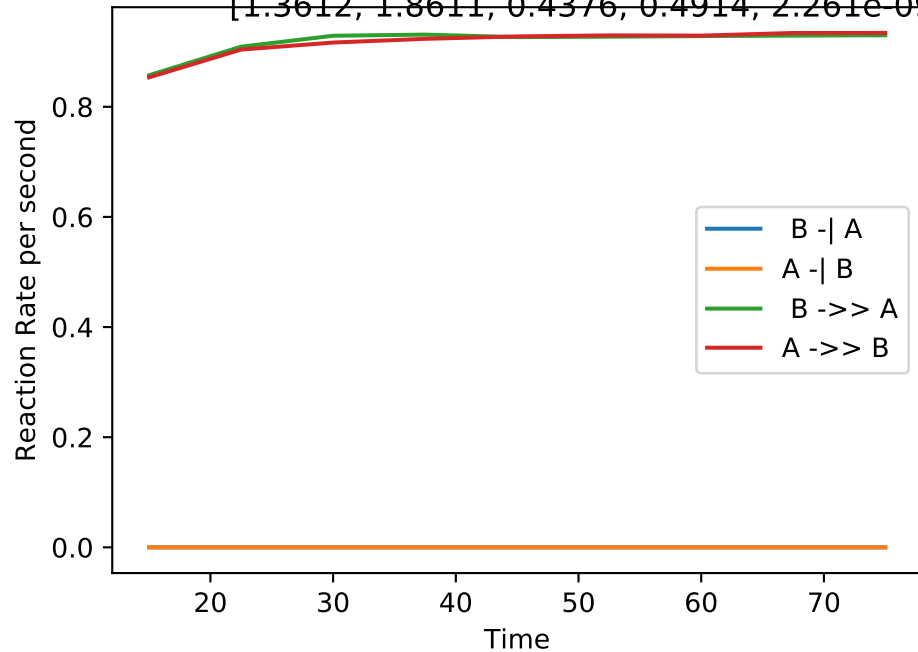
Double_up | MB-LLS Double_up(#111):

[1.2517, 1.9797, 0.3969, 0.3301, 7.533e-11, 4.878e-09, 0.0274, 0.3228, 0.2566, 0.0070]



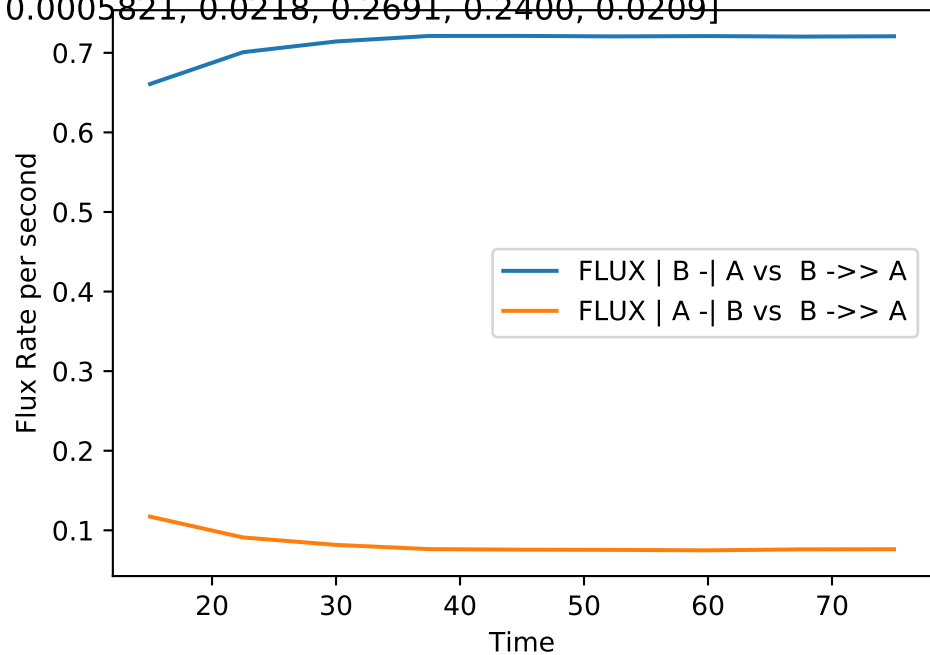
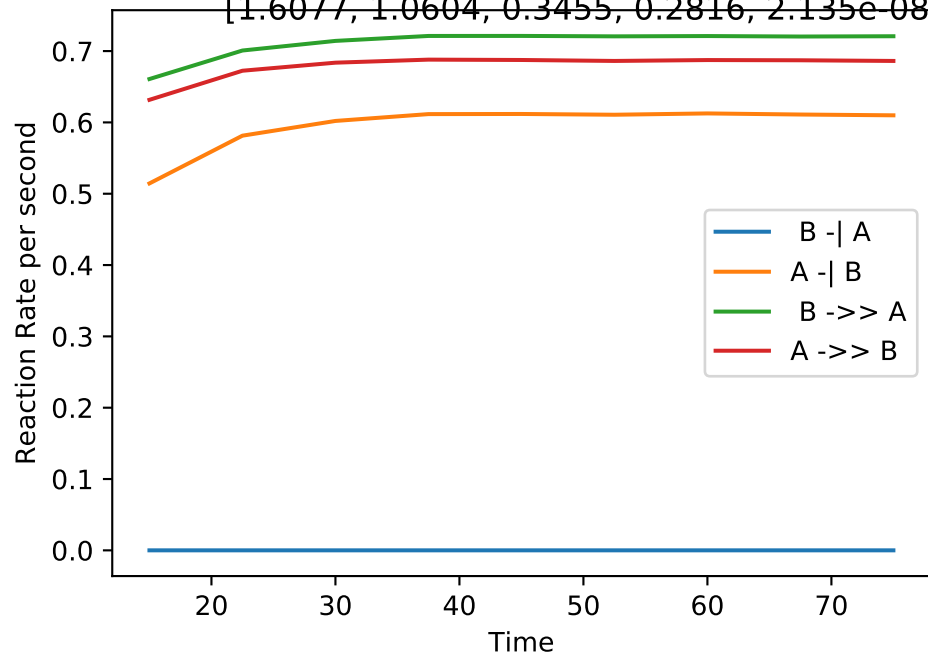
Double_up | MB-LLS Double_up(#112):

[1.3612, 1.8611, 0.4376, 0.4914, 2.261e-09, 2.794e-09, 0.0282, 0.3577, 0.3960, 0.0282]



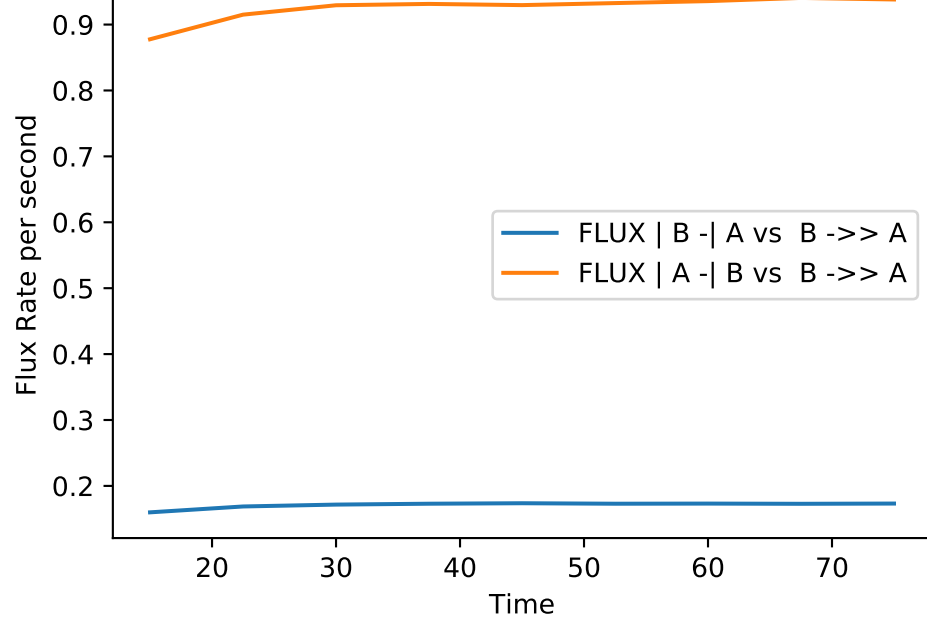
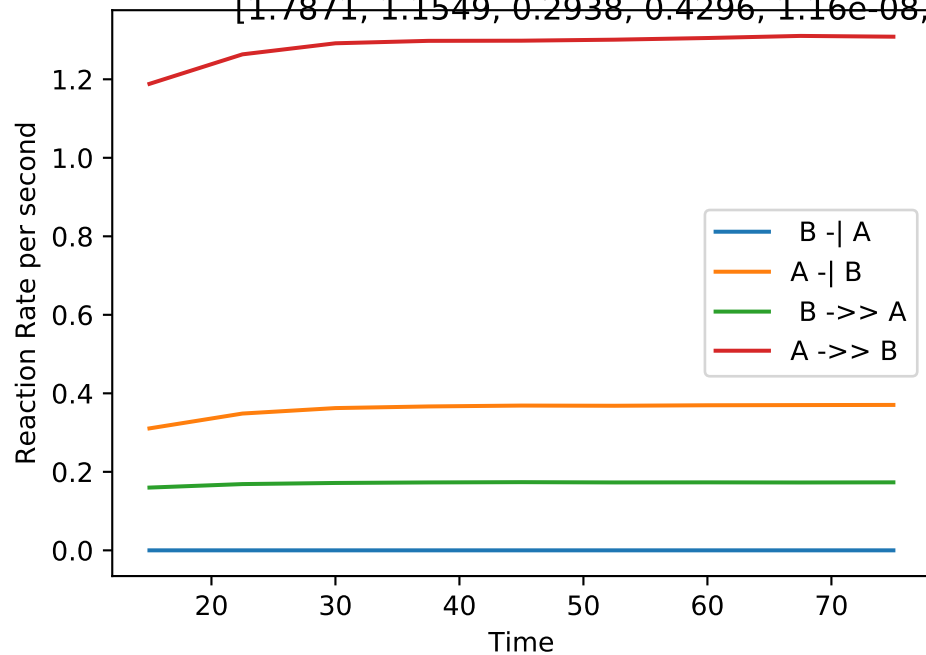
Double_up | MB-LLS Double_up(#113):

[1.6077, 1.0604, 0.3455, 0.2816, 2.135e-08, 0.0005821, 0.0218, 0.2691, 0.2400, 0.0209]



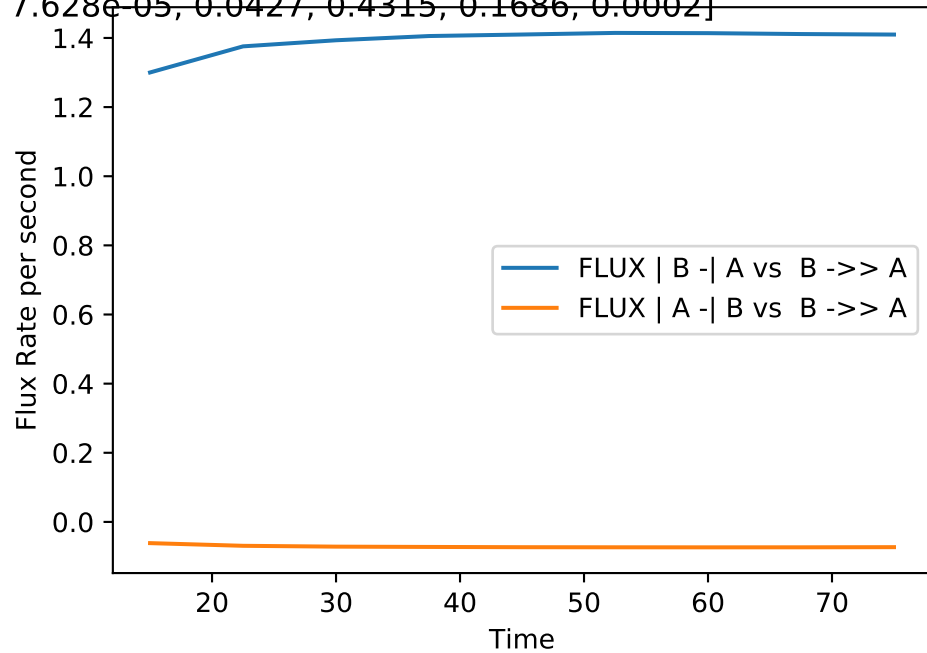
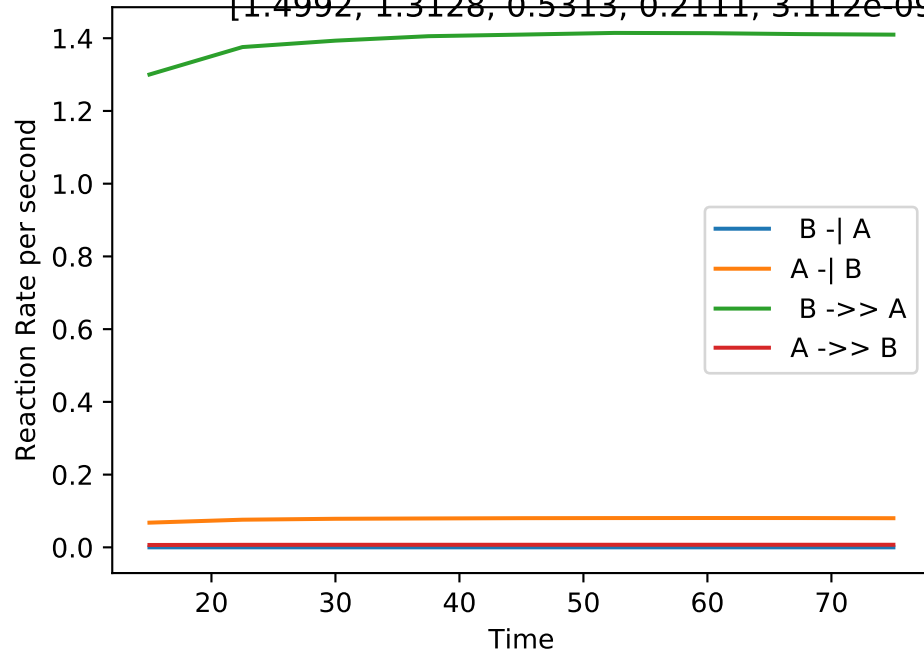
Double_up | MB-LLS Double_up(#114):

[1.7871, 1.1549, 0.2938, 0.4296, 1.16e-08, 0.0003512, 0.0053, 0.2288, 0.3565, 0.0394]



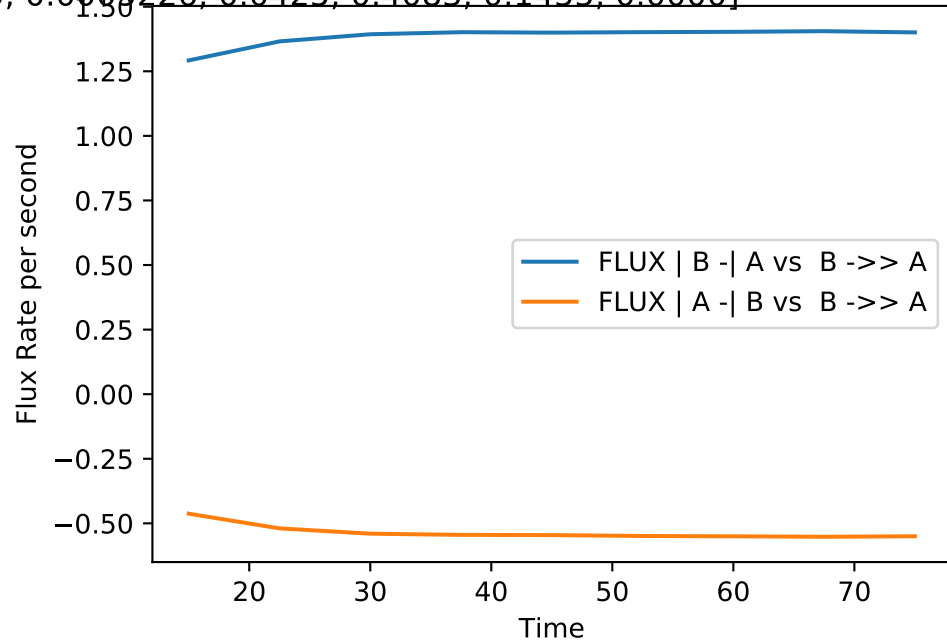
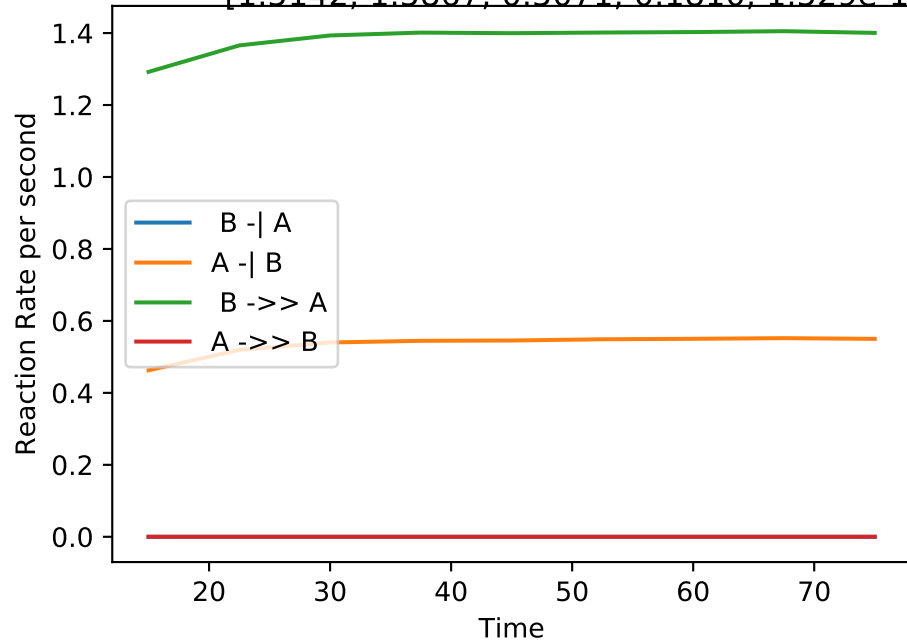
Double_up | MB-LLS Double_up(#115):

[1.4992, 1.3128, 0.5313, 0.2111, 3.112e-09, 7.628e-05, 0.0427, 0.4315, 0.1686, 0.0002]



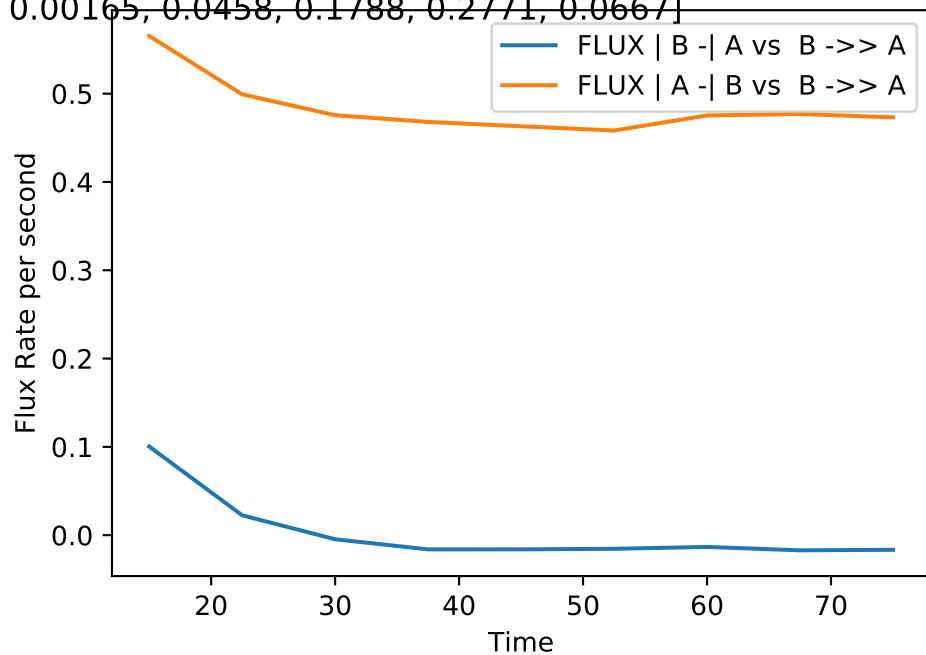
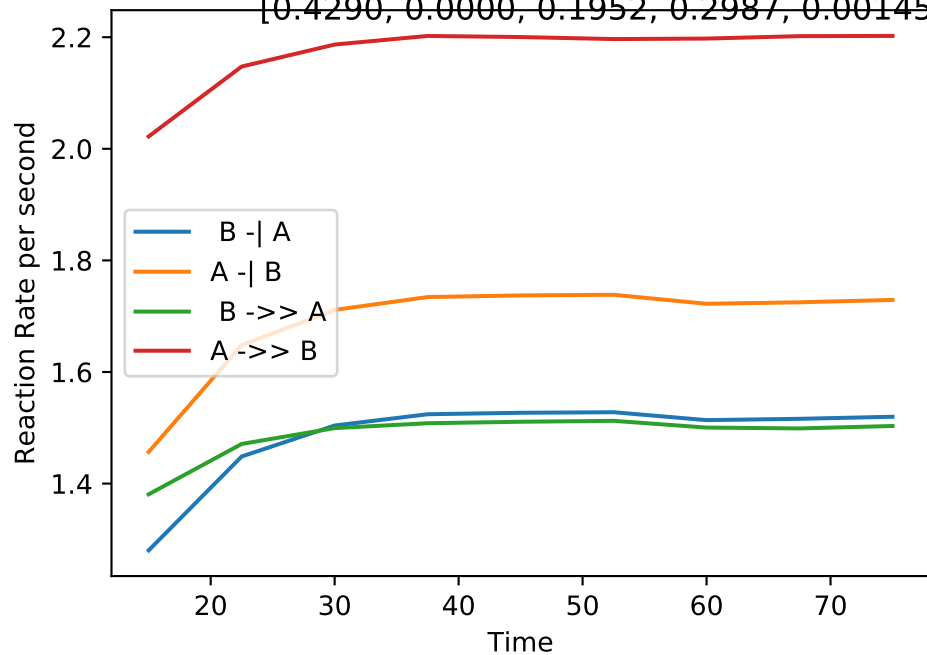
Double_up | MB-LLS Double_up(#116):

[1.5142, 1.5867, 0.5071, 0.1810, 1.529e-10, 0.0005226, 0.0425, 0.4083, 0.1455, 0.0000]



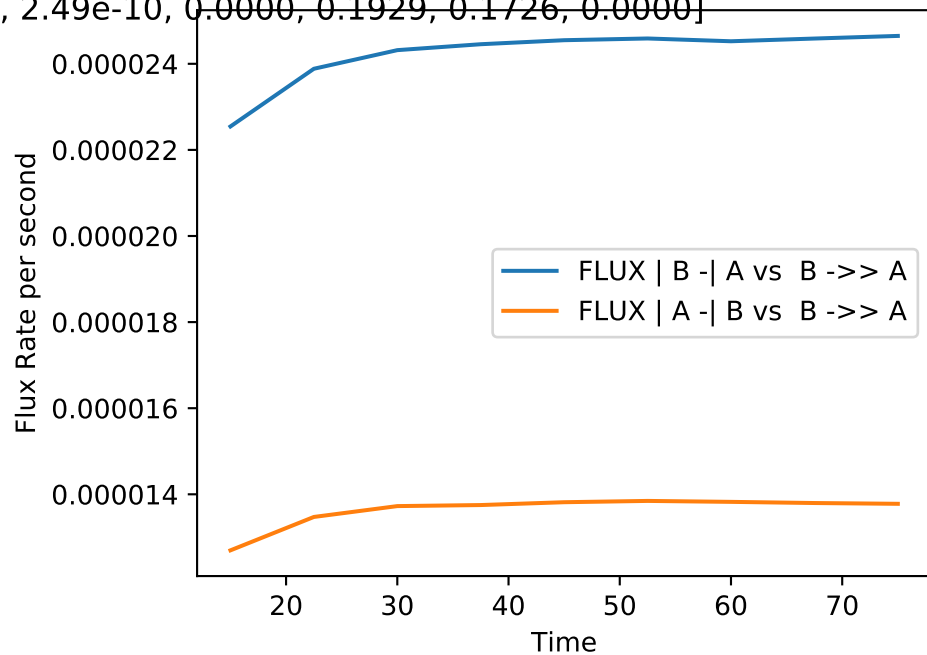
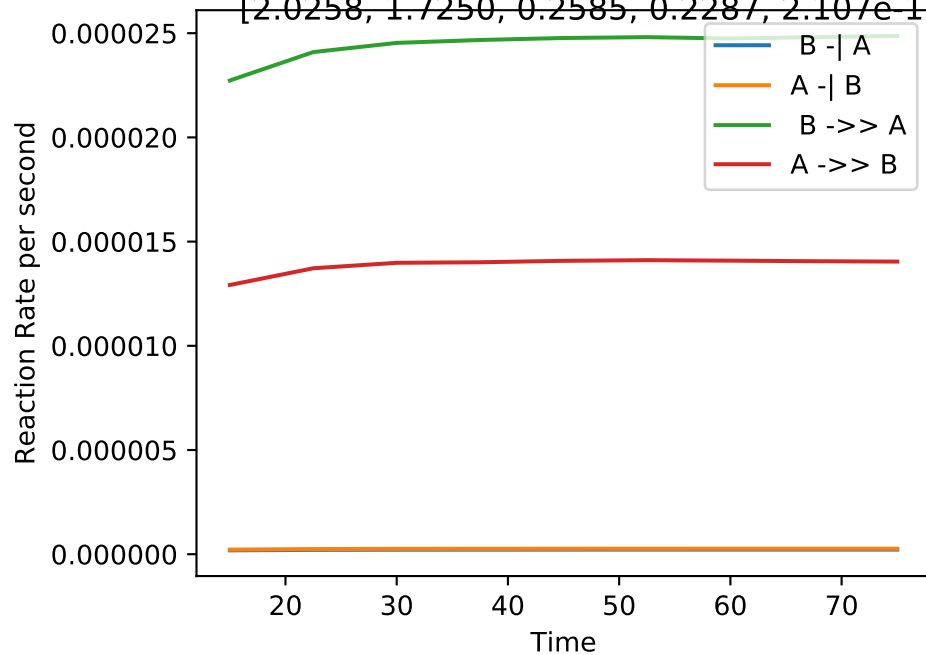
Double_up | MB-LLS Double_up(#117):

[0.4290, 0.0000, 0.1952, 0.2987, 0.00145, 0.00165, 0.0458, 0.1788, 0.2771, 0.0667]



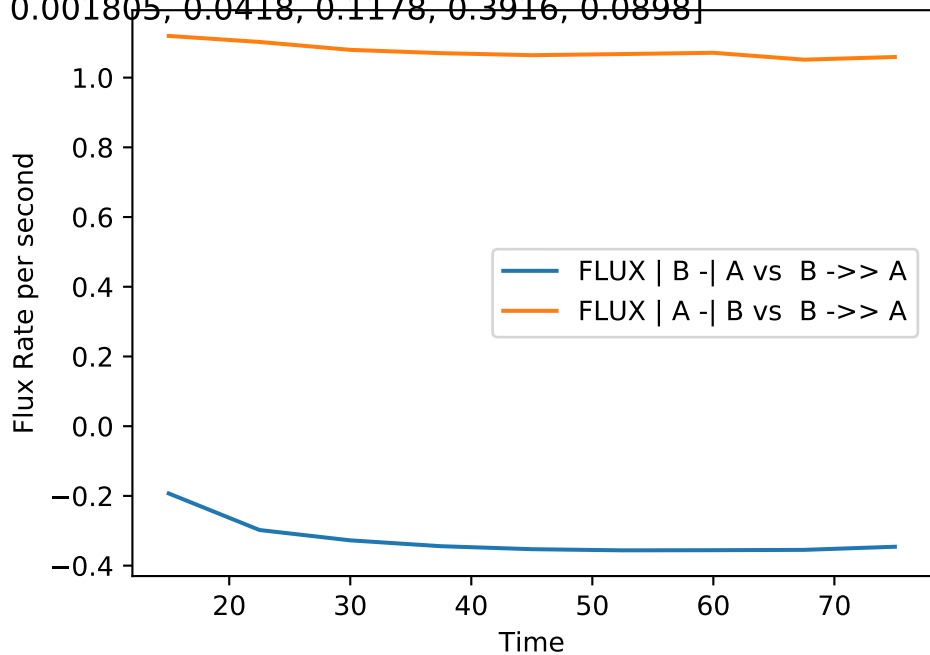
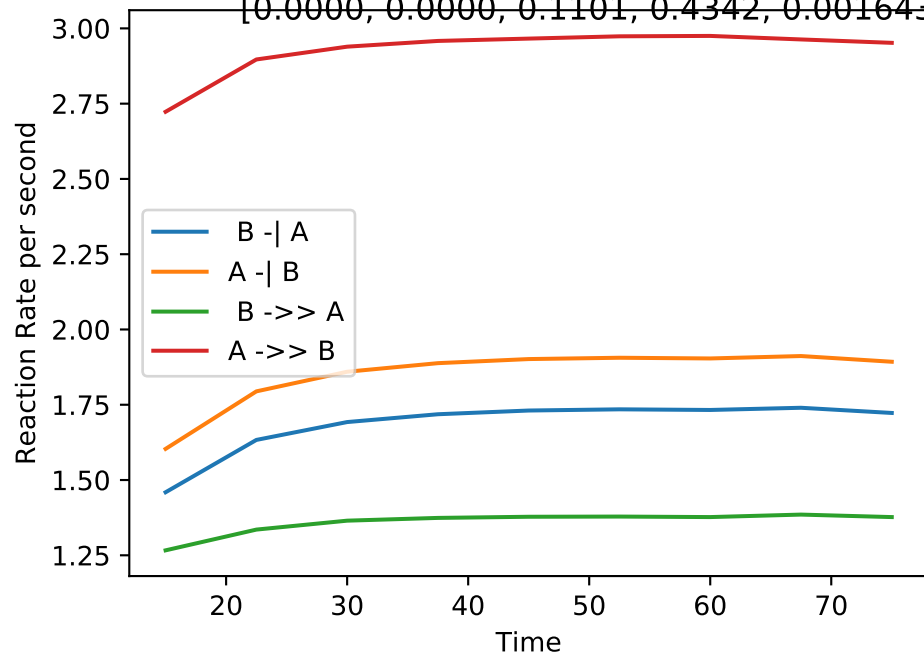
Double_up | MB-LLS Double_up(#118):

[2.0258, 1.7250, 0.2585, 0.2287, 2.107e-10, 2.49e-10, 0.0000, 0.1929, 0.1726, 0.0000]



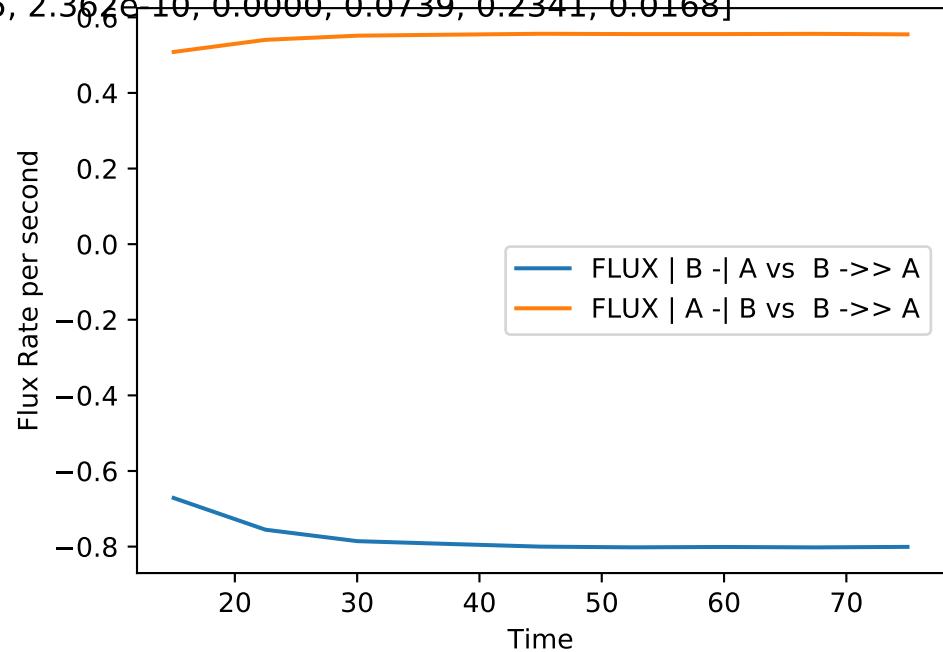
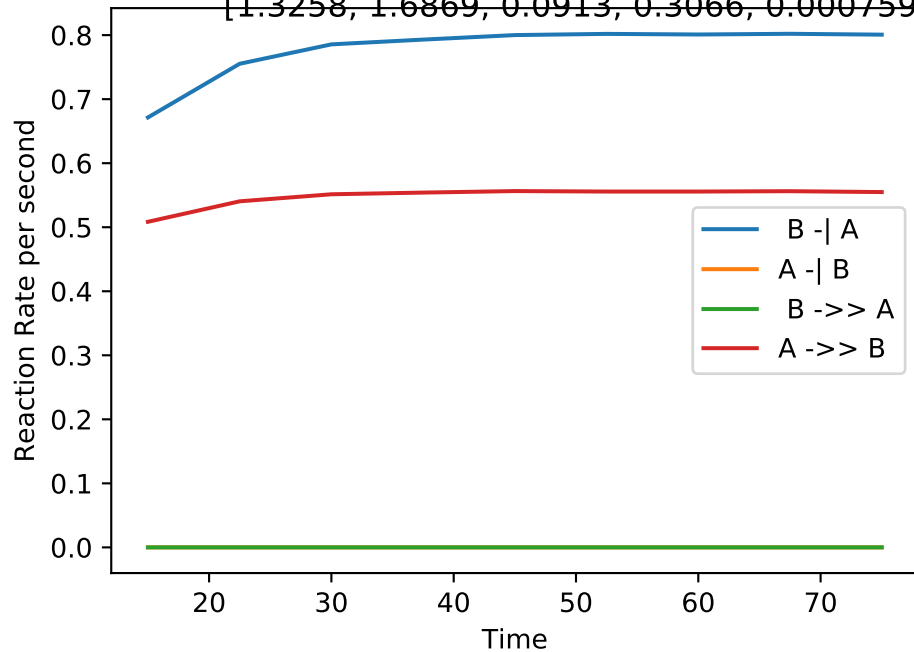
Double_up | MB-LLS Double_up(#119):

[0.0000, 0.0000, 0.1101, 0.4342, 0.001643, 0.001805, 0.0418, 0.1178, 0.3916, 0.0898]



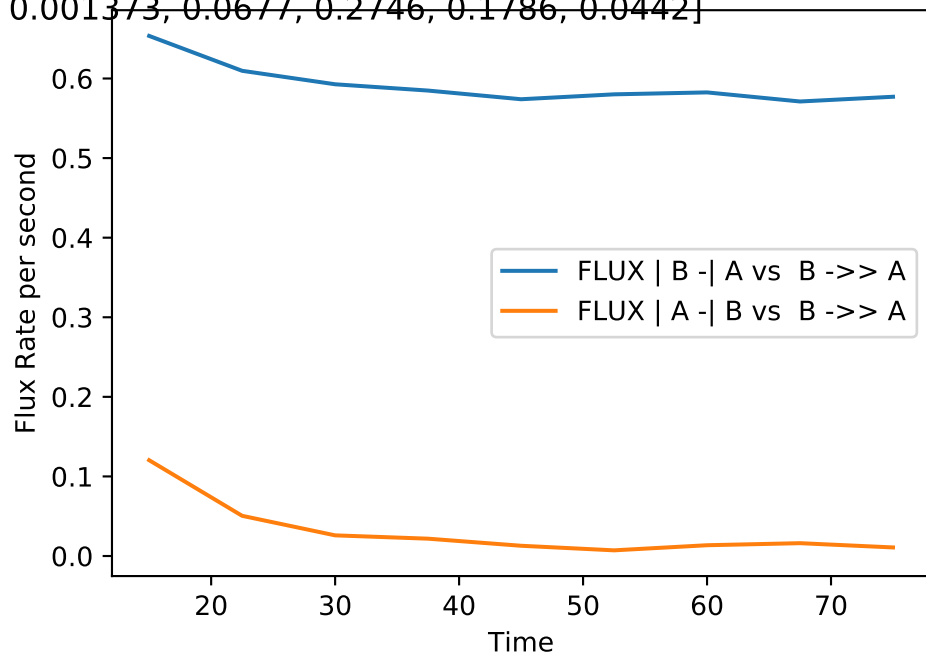
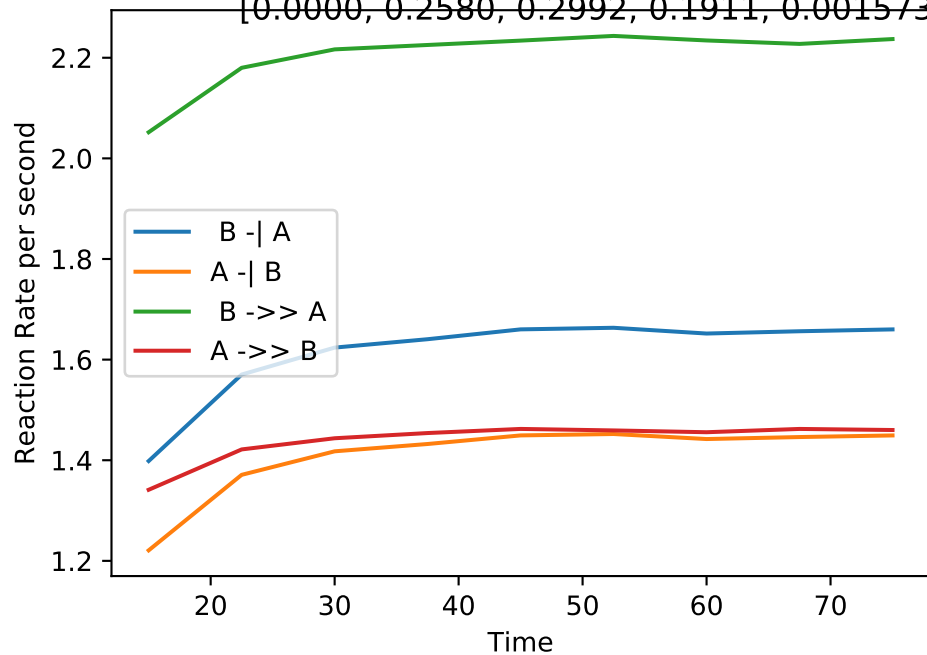
Double_up | MB-LLS Double_up(#120):

[1.3258, 1.6869, 0.0913, 0.3066, 0.0007595, 2.362e-10, 0.0000, 0.0739, 0.2341, 0.0168]



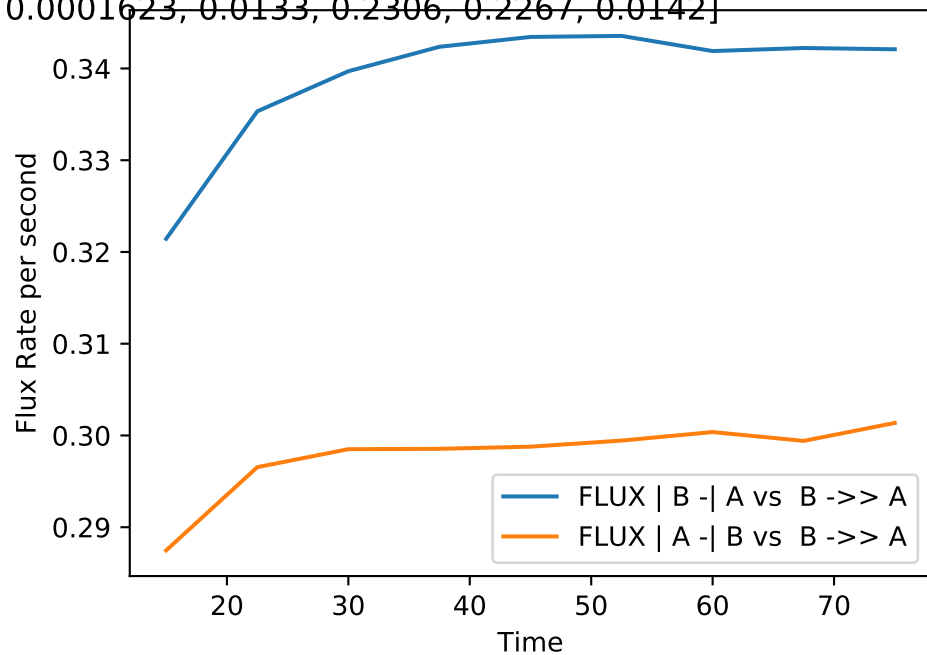
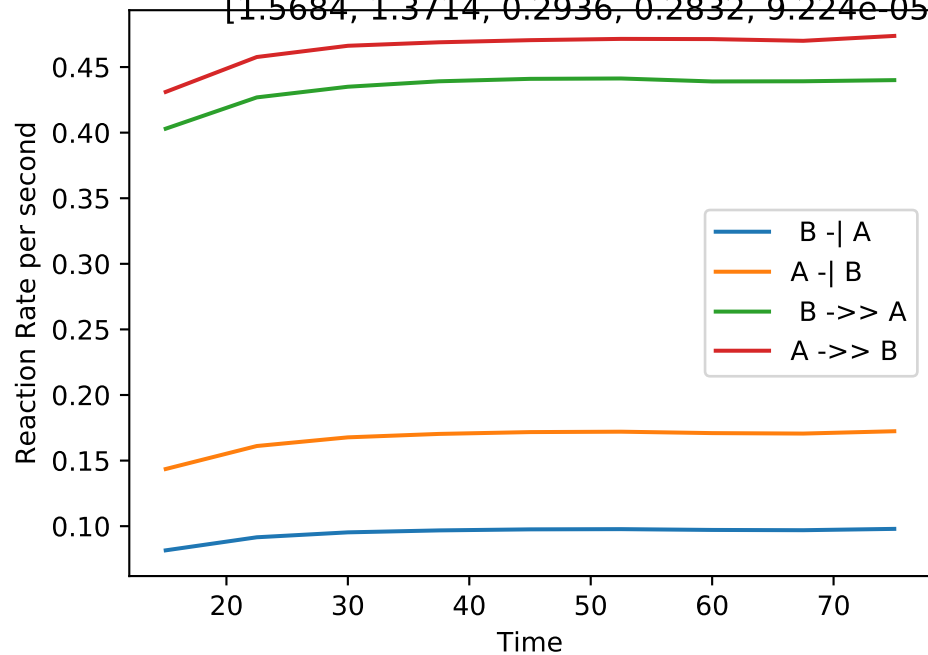
Double_up | MB-LLS Double_up(#121):

[0.0000, 0.2580, 0.2992, 0.1911, 0.001573, 0.001373, 0.0677, 0.2746, 0.1786, 0.0442]



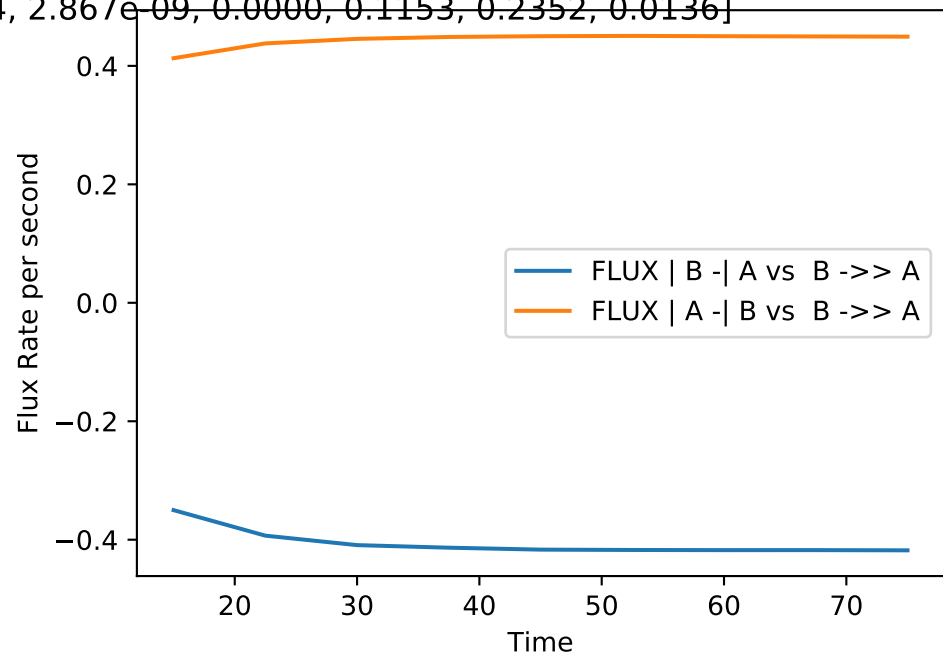
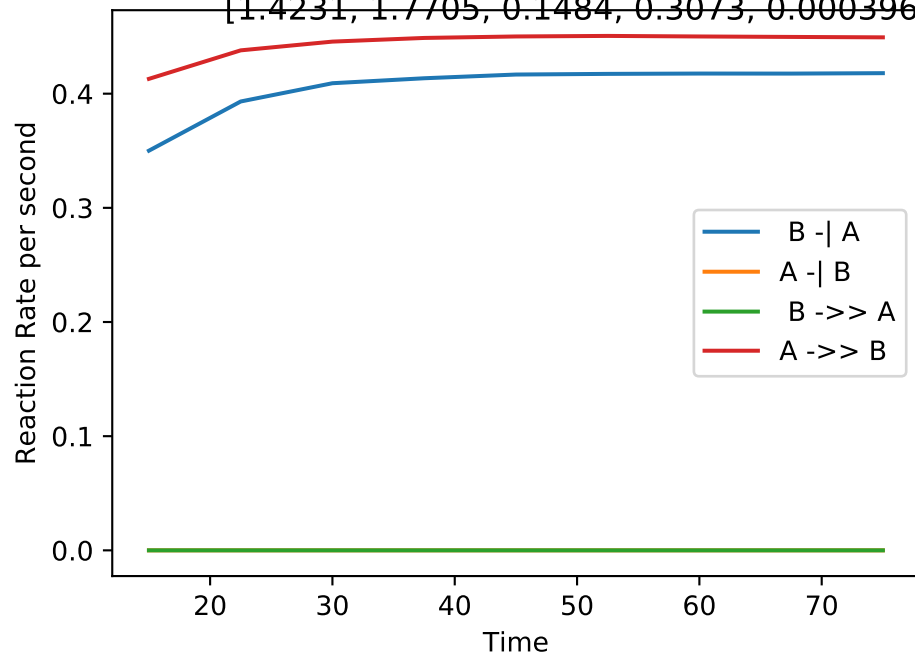
Double_up | MB-LLS Double_up(#122):

[1.5684, 1.3714, 0.2936, 0.2832, 9.224e-05, 0.0001623, 0.0133, 0.2306, 0.2267, 0.0142]



Double_up | MB-LLS Double_up(#123):

[1.4231, 1.7705, 0.1484, 0.3073, 0.0003964, 2.867e-09, 0.0000, 0.1153, 0.2352, 0.0136]



Double_up | MB-LLS Double_up(#124):

[0.9367, 1.1137, 0.8312, 0.1578, 3.253e-10, 0.0006814, 0.0942, 0.6905, 0.1403, 0.0000]

Reaction Rate per second

3.0
2.5
2.0
1.5
1.0
0.5
0.0

20

30

40

50

60

70

Time

B -| A
A -| B
B ->> A
A ->> B

Flux Rate per second

3.0
2.5
2.0
1.5
1.0
0.5
0.0
-0.5

20

30

40

50

60

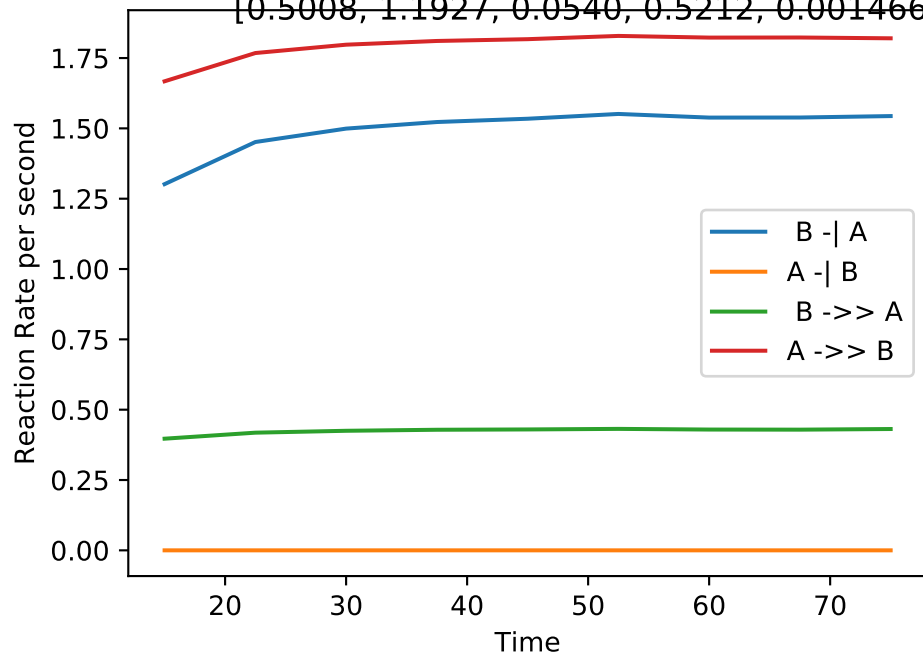
70

Time

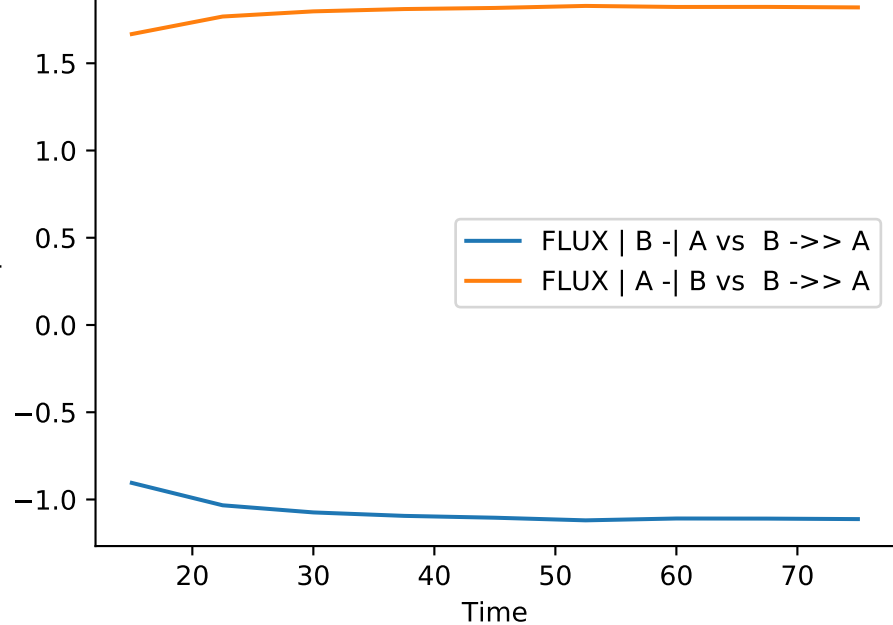
FLUX | B -| A vs B ->> A
FLUX | A -| B vs B ->> A

Double_up | MB-LLS Double_up(#125):

[0.5008, 1.1927, 0.0540, 0.5212, 0.001466, 4.104e-10, 0.0130, 0.0695, 0.4204, 0.0552]

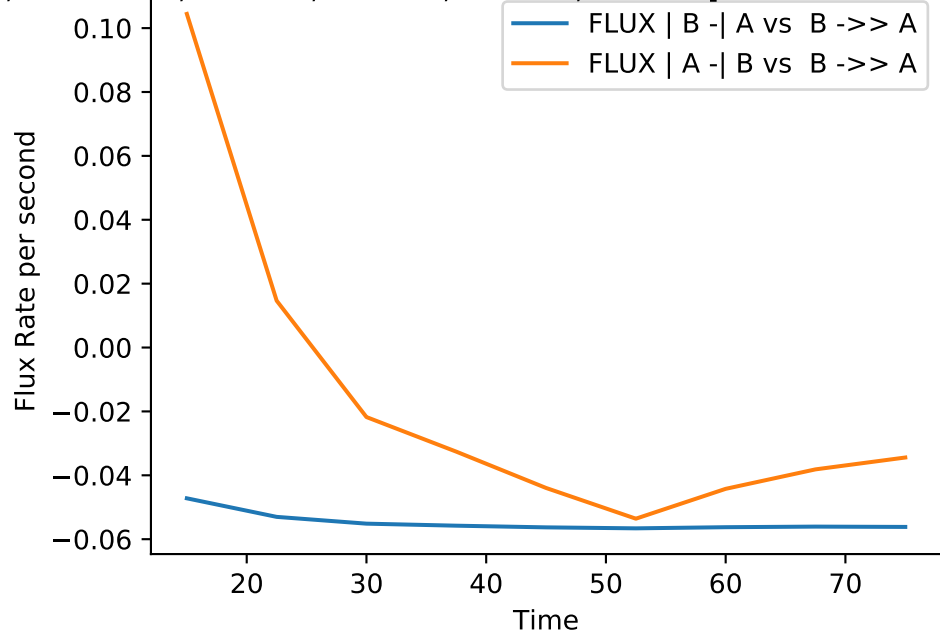
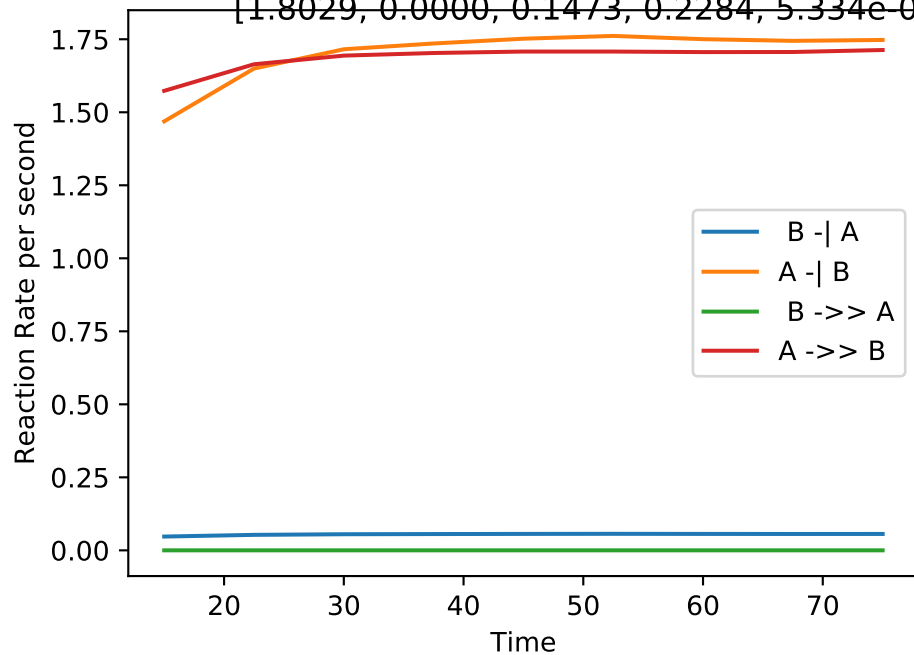


Flux Rate per second



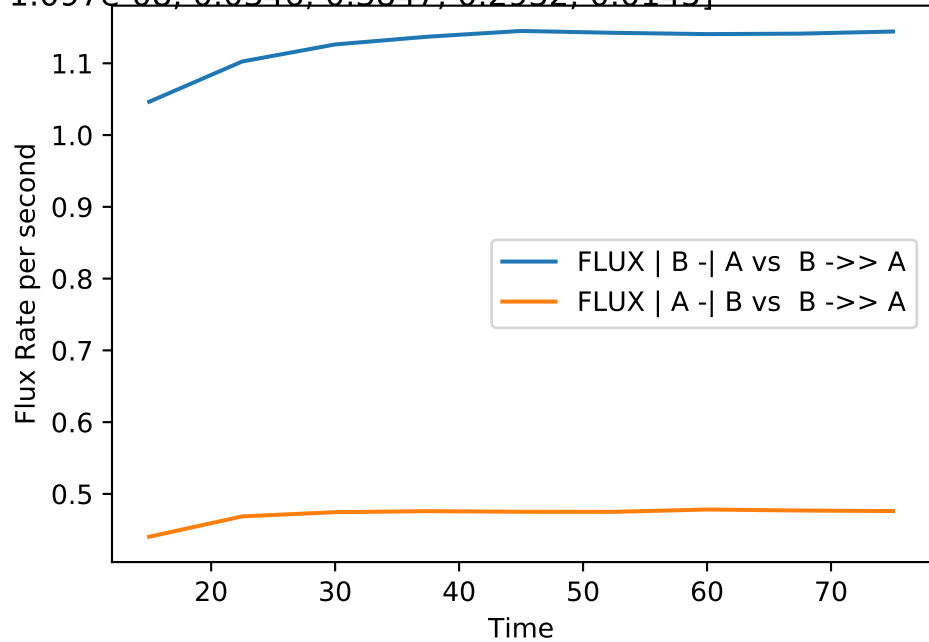
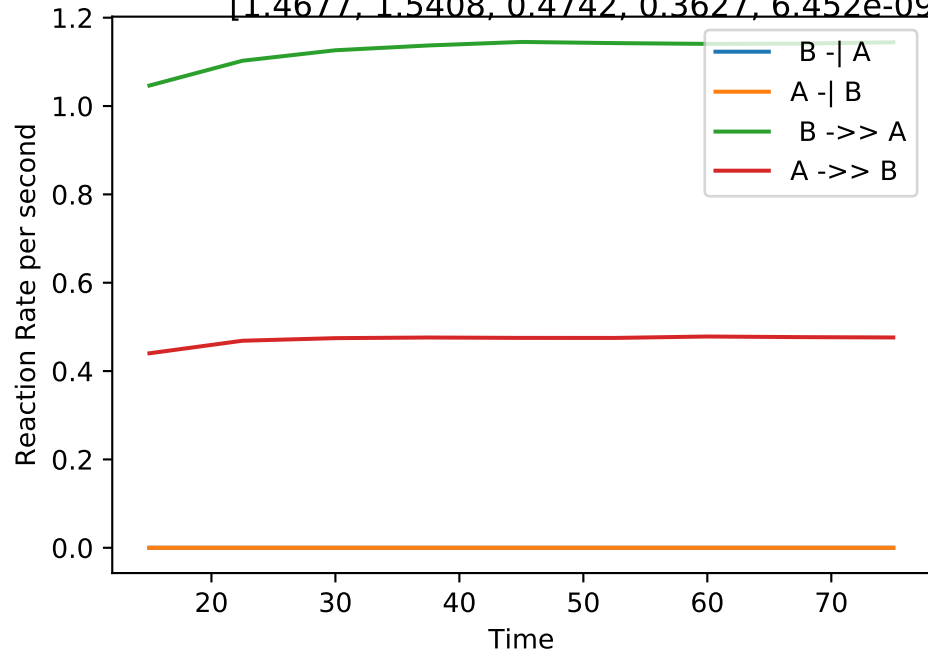
Double_up | MB-LLS Double_up(#126):

[1.8029, 0.0000, 0.1473, 0.2284, 5.334e-05, 0.001659, 0.0000, 0.0949, 0.2228, 0.0517]



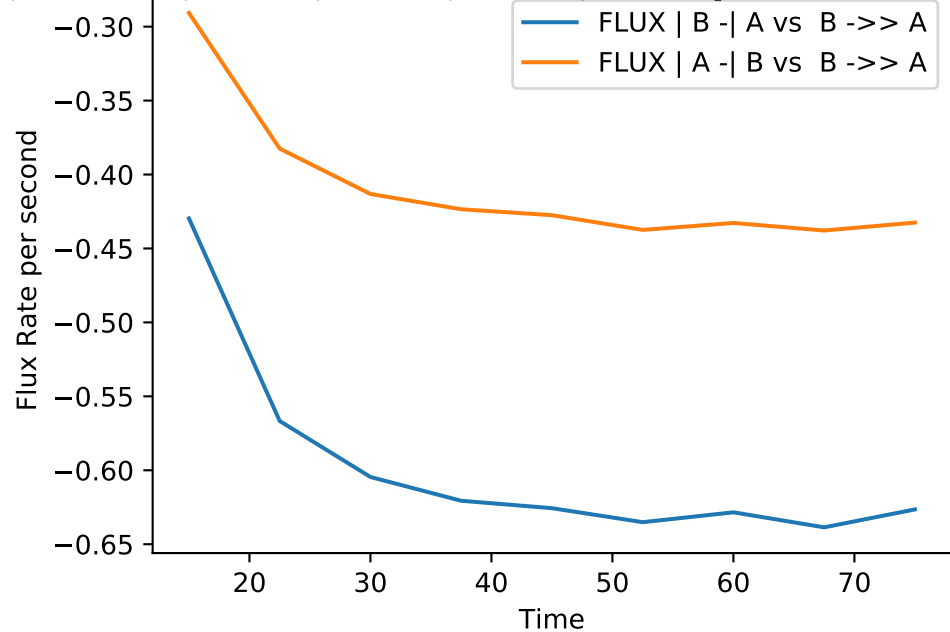
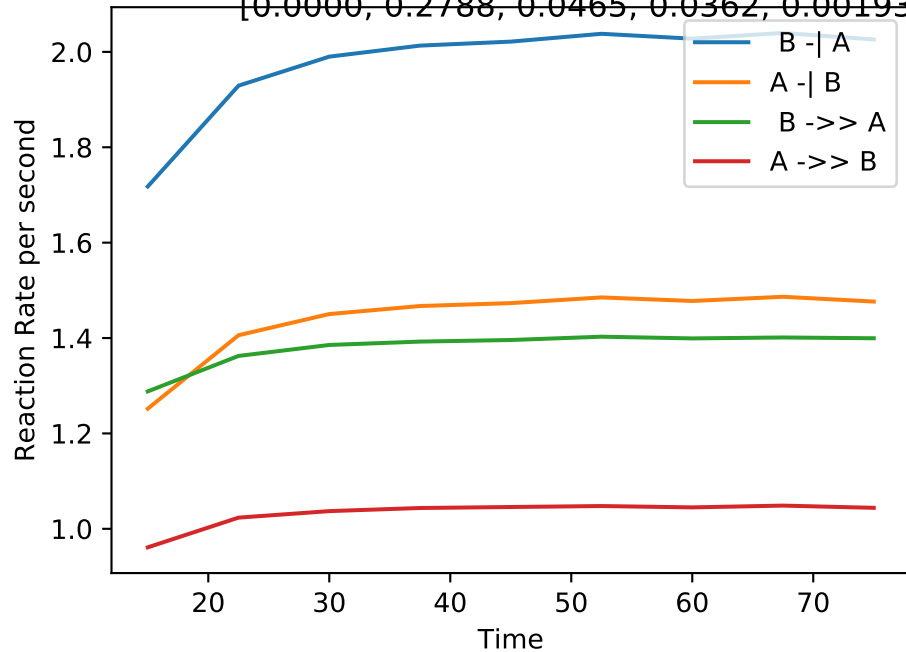
Double_up | MB-LLS Double_up(#127):

[1.4677, 1.5408, 0.4742, 0.3627, 6.452e-09, 1.097e-08, 0.0346, 0.3847, 0.2932, 0.0145]



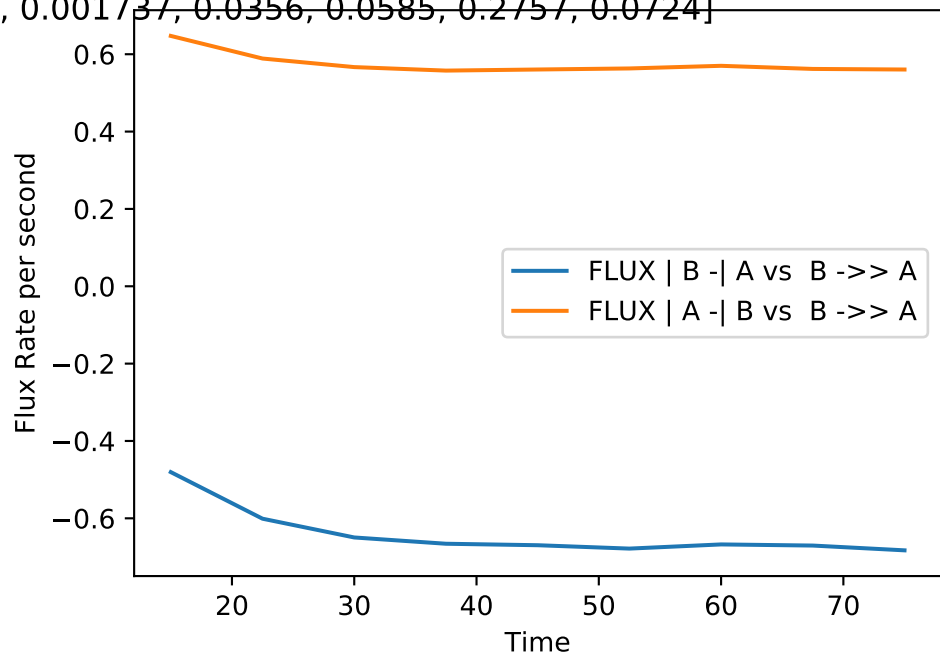
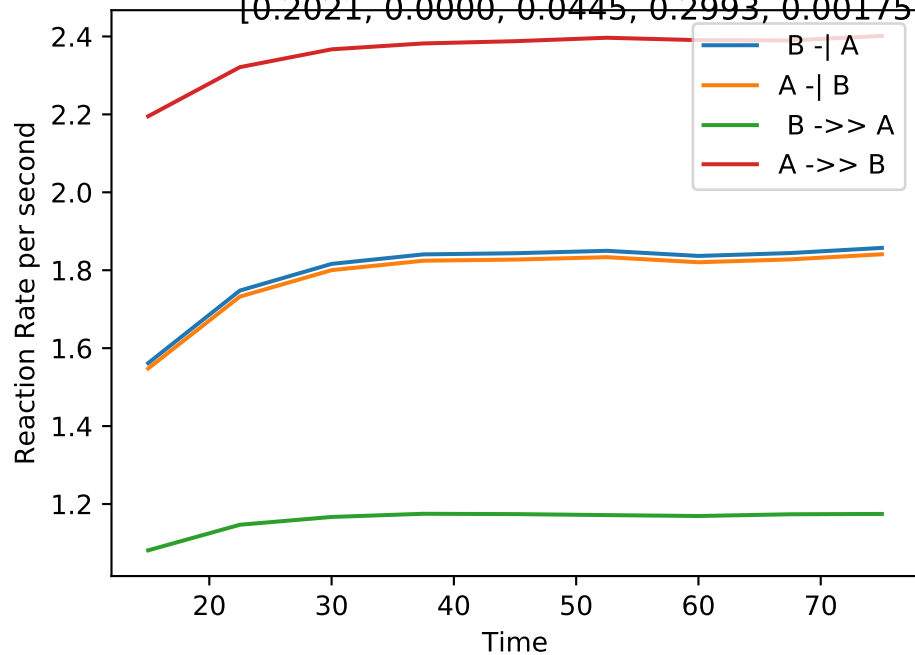
Double_up | MB-LLS Double_up(#128):

[0.0000, 0.2788, 0.0465, 0.0362, 0.001932, 0.001408, 0.0424, 0.0649, 0.0419, 0.0318]



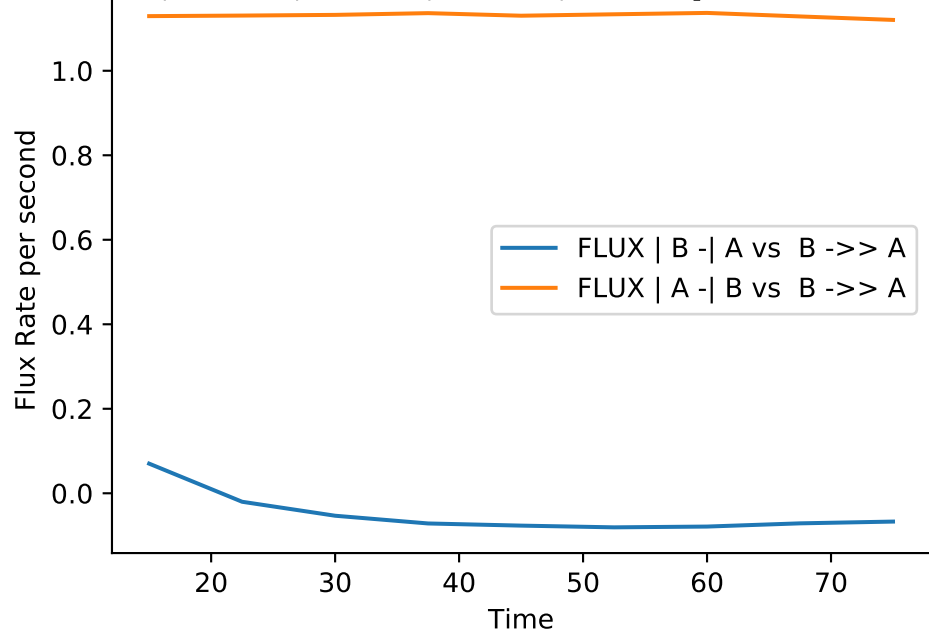
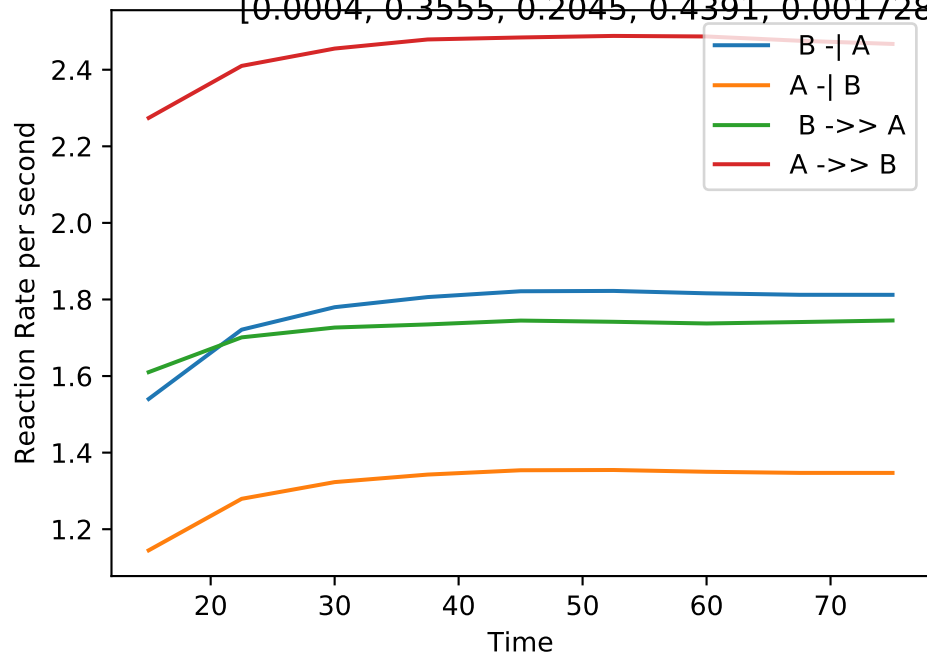
Double_up | MB-LLS Double_up(#129):

[0.2021, 0.0000, 0.0445, 0.2993, 0.001752, 0.001737, 0.0356, 0.0585, 0.2757, 0.0724]



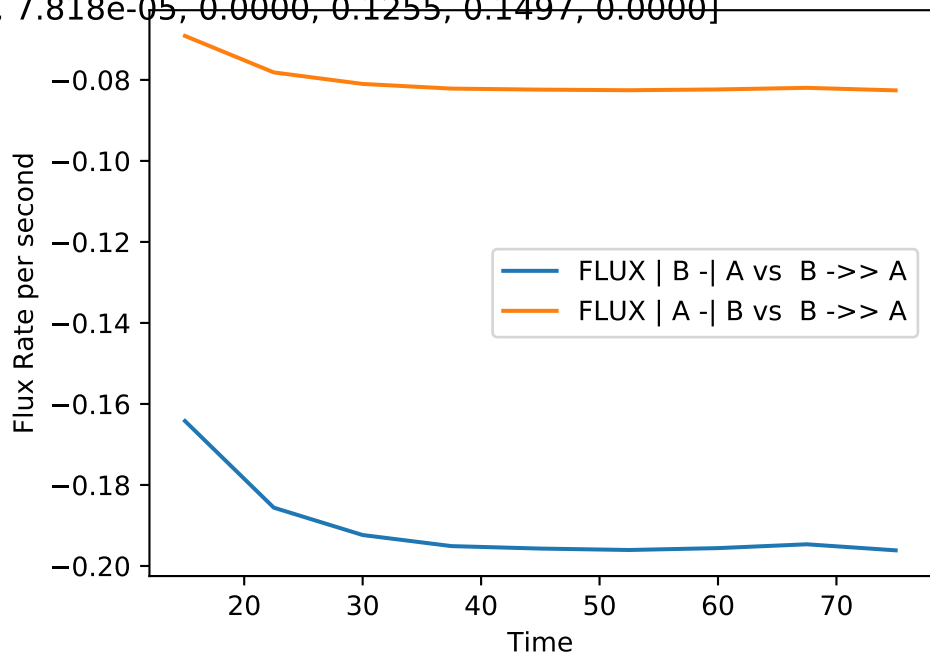
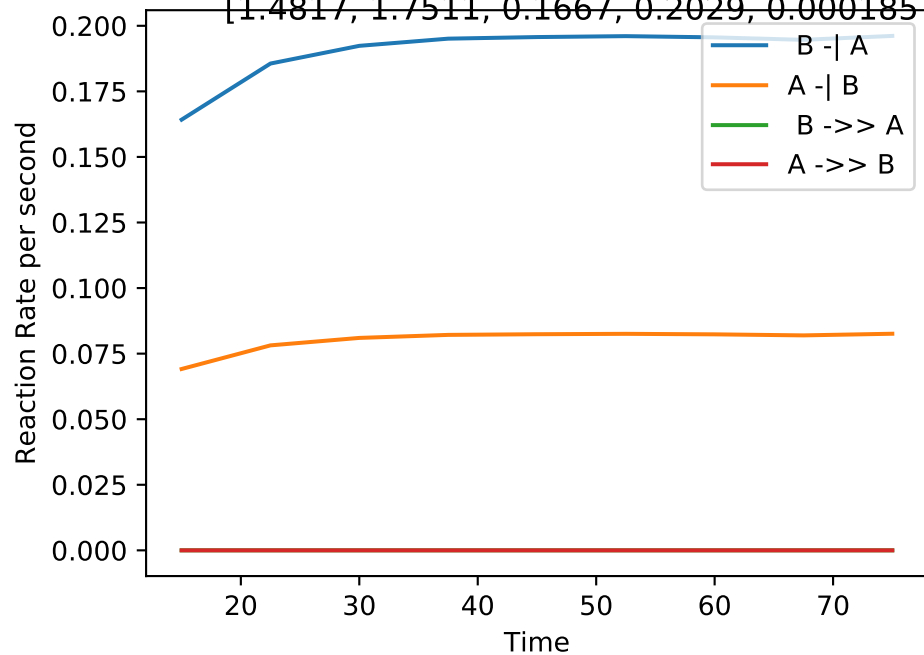
Double_up | MB-LLS Double_up(#130):

[0.0004, 0.3555, 0.2045, 0.4391, 0.001728, 0.001285, 0.0527, 0.2011, 0.3841, 0.0754]



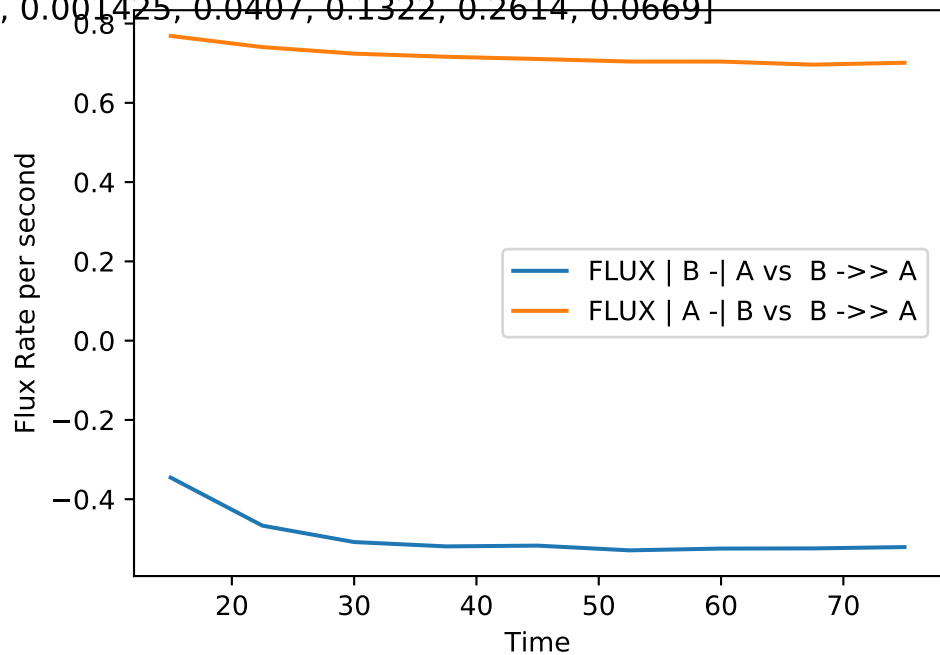
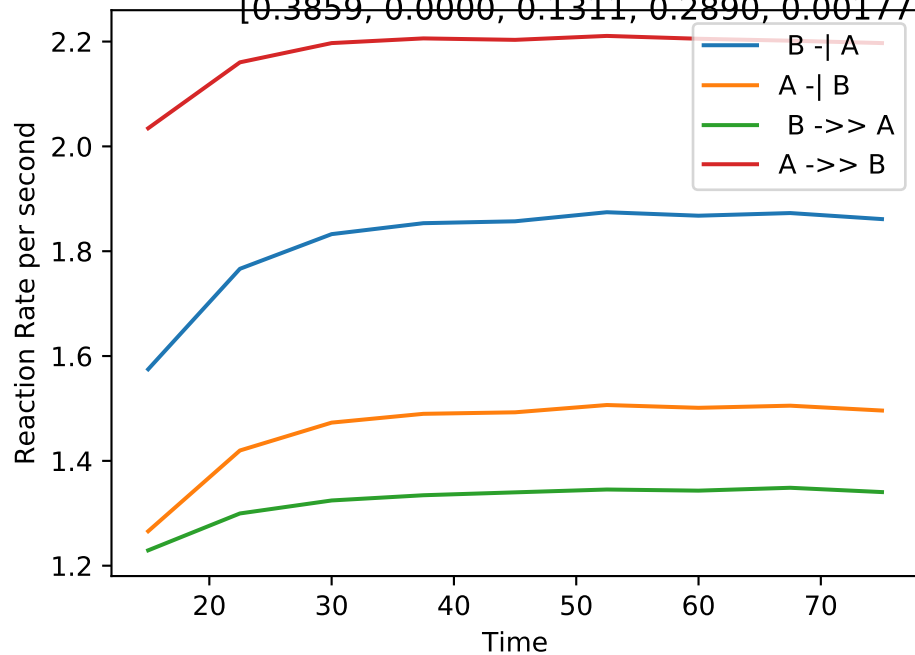
Double_up | MB-LLS Double_up(#131):

[1.4817, 1.7511, 0.1667, 0.2029, 0.0001857, 7.818e-05, 0.0000, 0.1255, 0.1497, 0.0000]



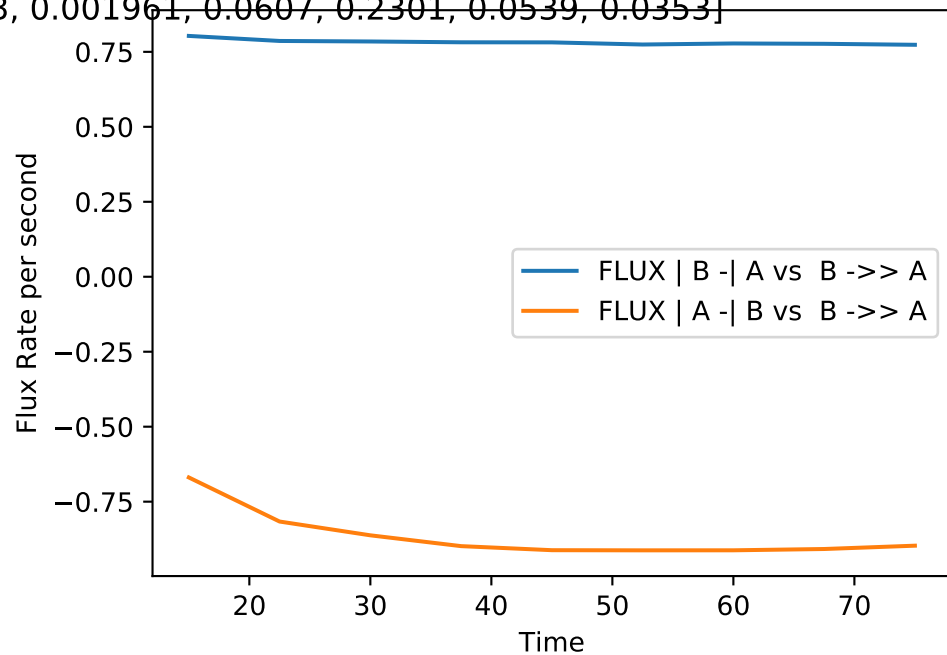
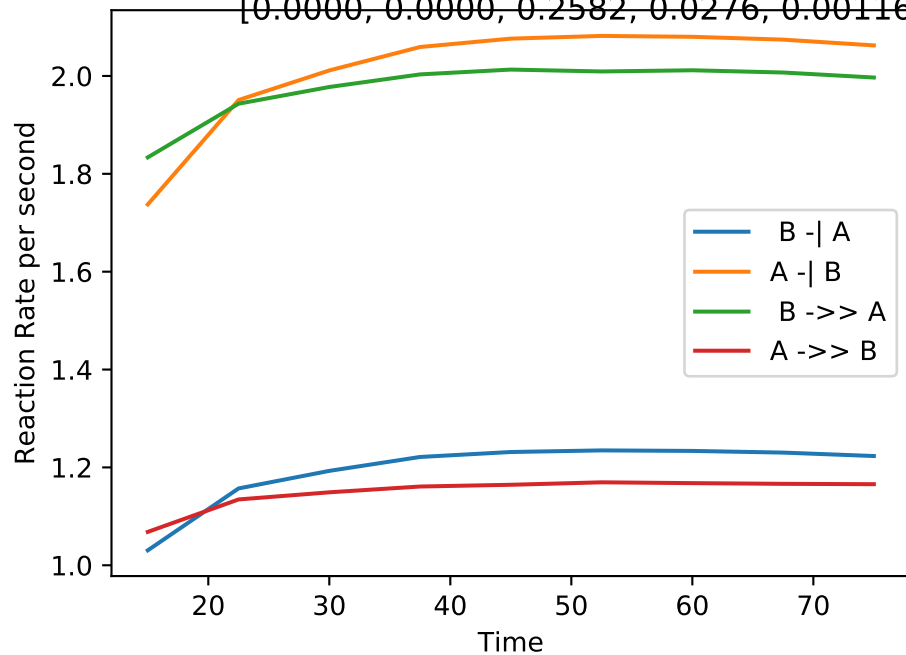
Double_up | MB-LLS Double_up(#132):

[0.3859, 0.0000, 0.1311, 0.2890, 0.001773, 0.001425, 0.0407, 0.1322, 0.2614, 0.0669]



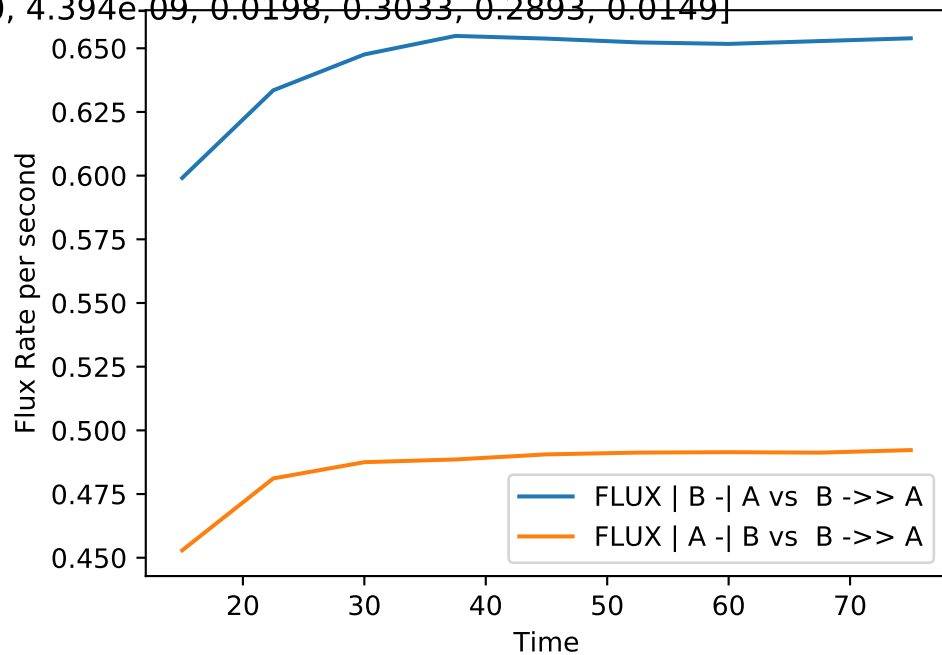
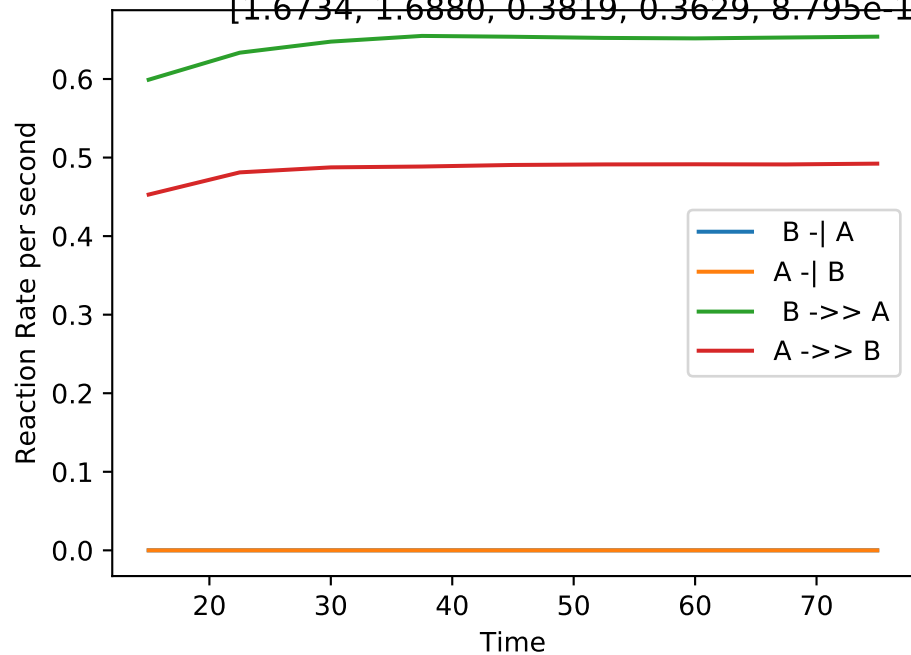
Double_up | MB-LLS Double_up(#133):

[0.0000, 0.0000, 0.2582, 0.0276, 0.001163, 0.001961, 0.0607, 0.2301, 0.0539, 0.0353]



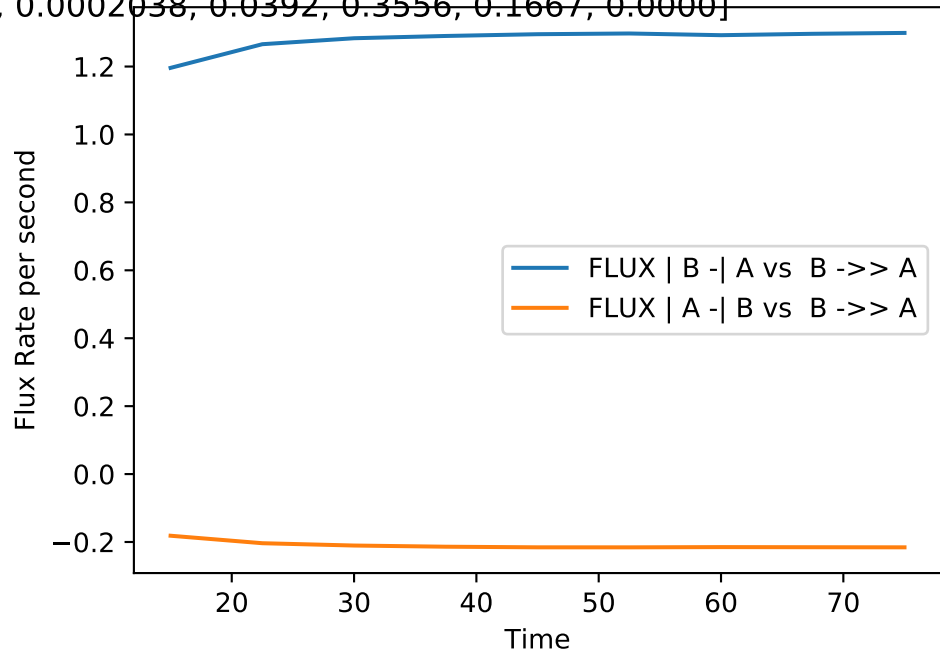
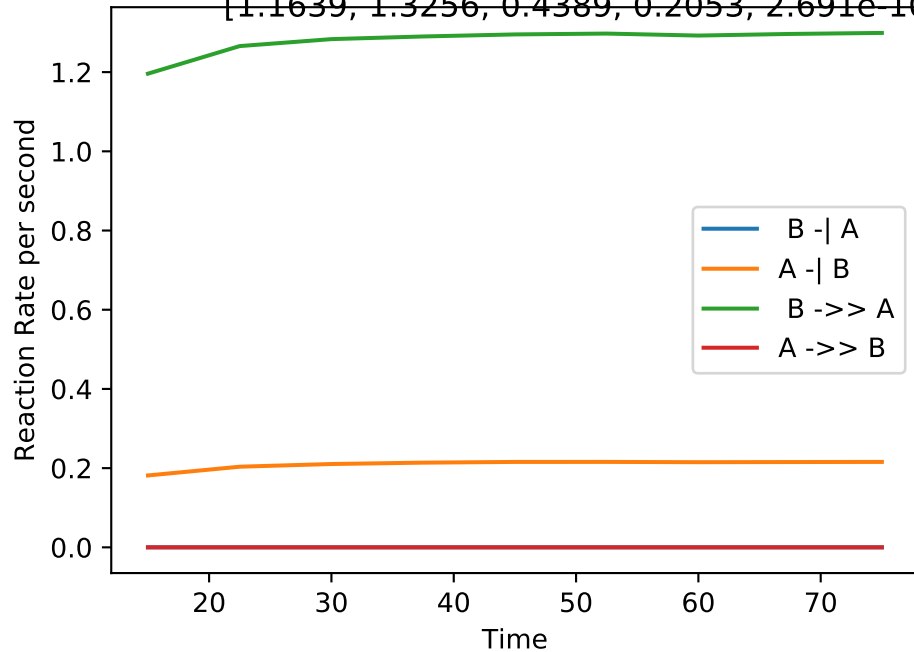
Double_up | MB-LLS Double_up(#134):

[1.6734, 1.6880, 0.3819, 0.3629, 8.795e-10, 4.394e-09, 0.0198, 0.3033, 0.2893, 0.0149]



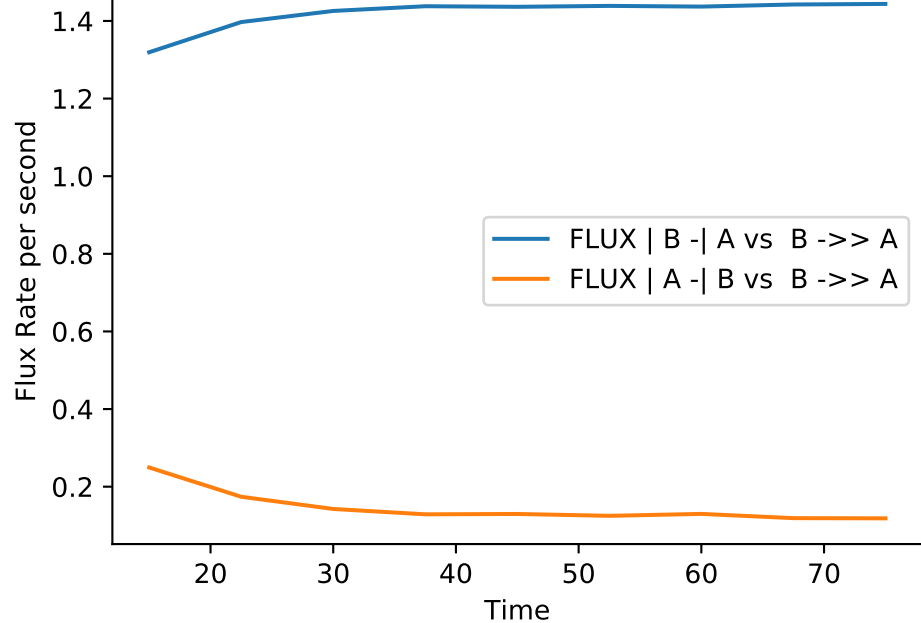
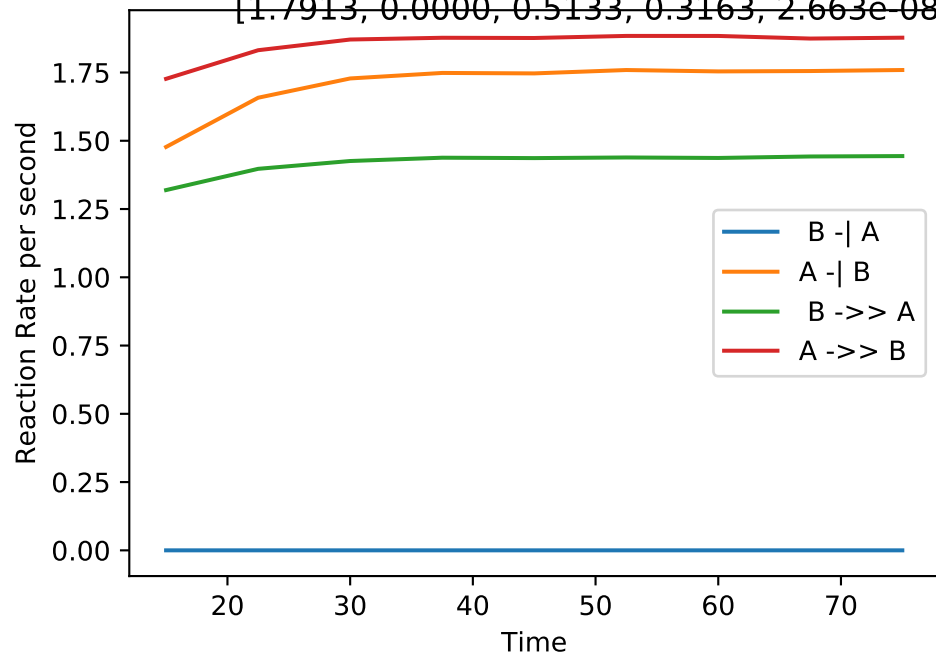
Double_up | MB-LLS Double_up(#135):

[1.1639, 1.3256, 0.4389, 0.2053, 2.691e-10, 0.0002038, 0.0392, 0.3556, 0.1667, 0.0000]



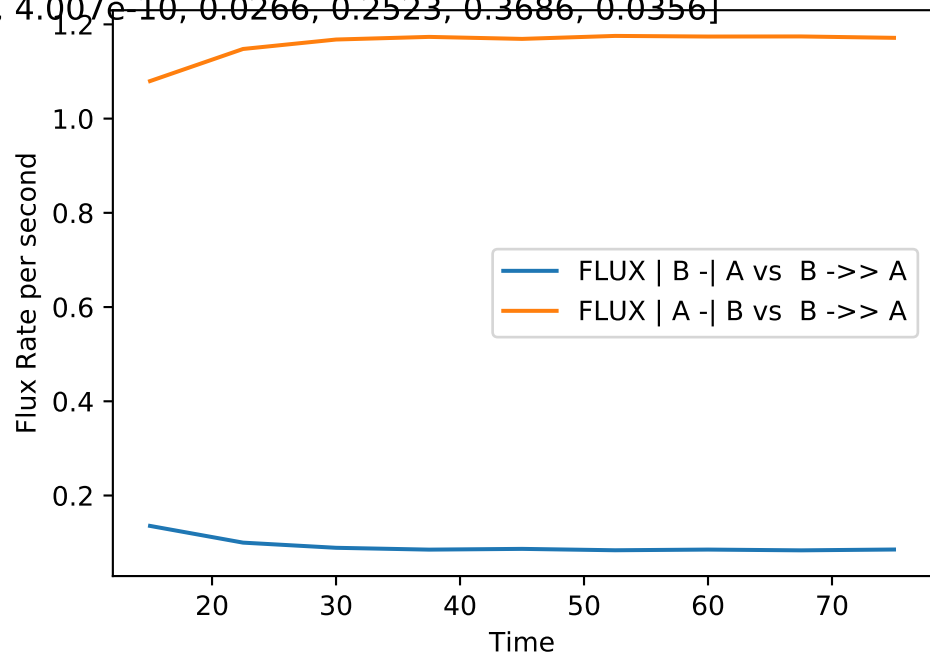
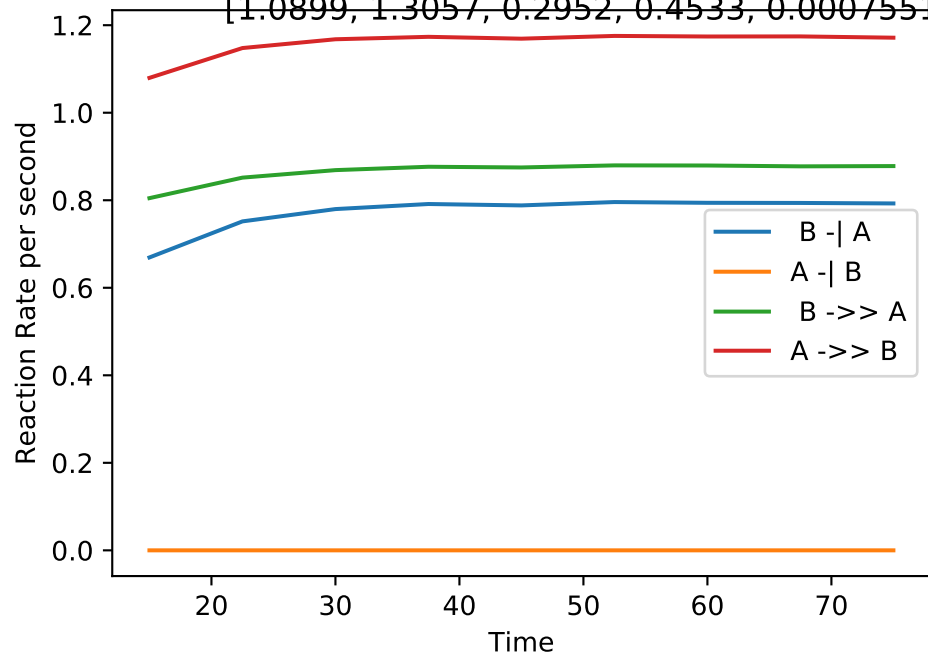
Double_up | MB-LLS Double_up(#136):

[1.7913, 0.0000, 0.5133, 0.3163, 2.663e-08, 0.001667, 0.0437, 0.4064, 0.3021, 0.0570]



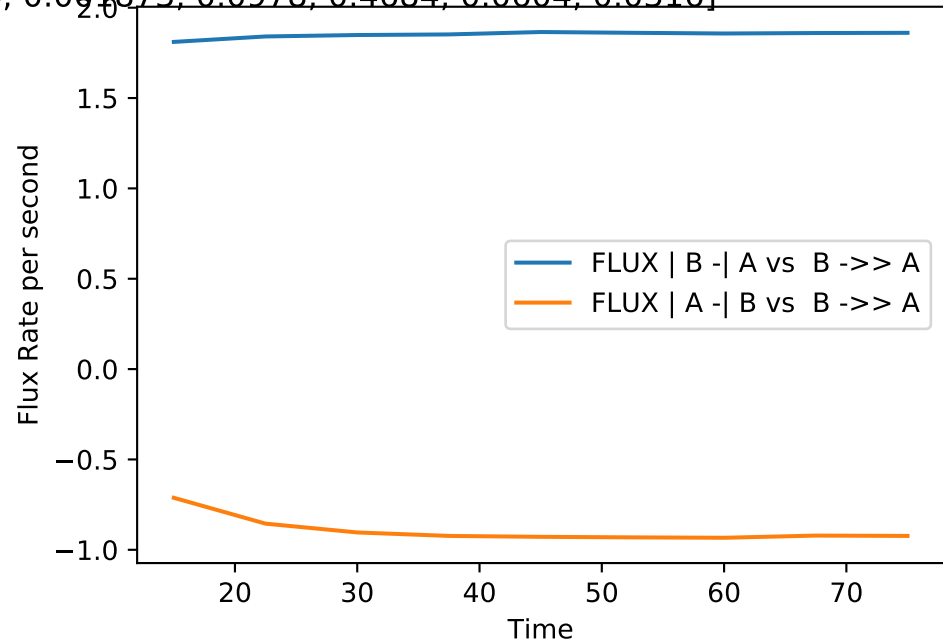
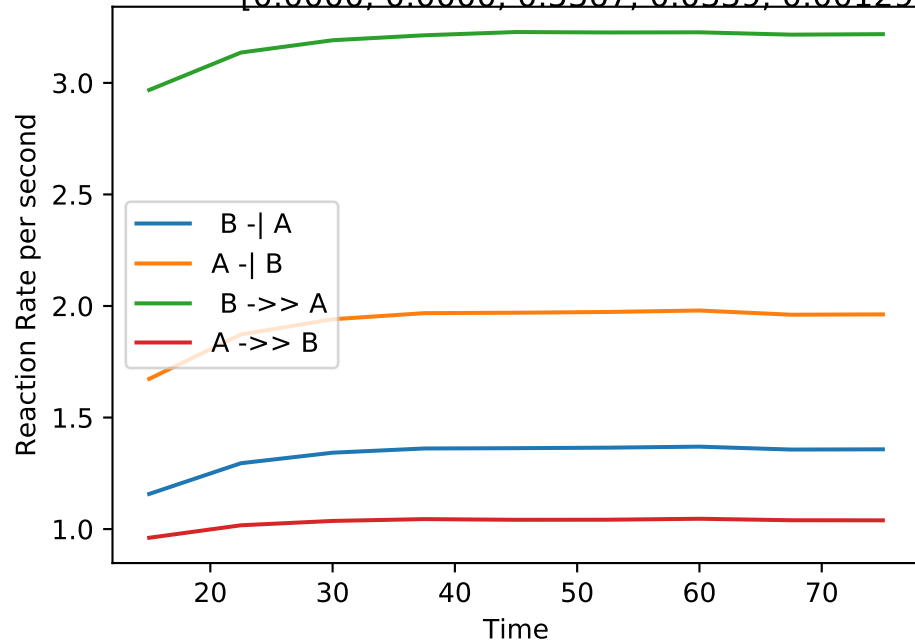
Double_up | MB-LLS Double_up(#137):

[1.0899, 1.3057, 0.2952, 0.4533, 0.0007551, 4.007e-10, 0.0266, 0.2523, 0.3686, 0.0356]



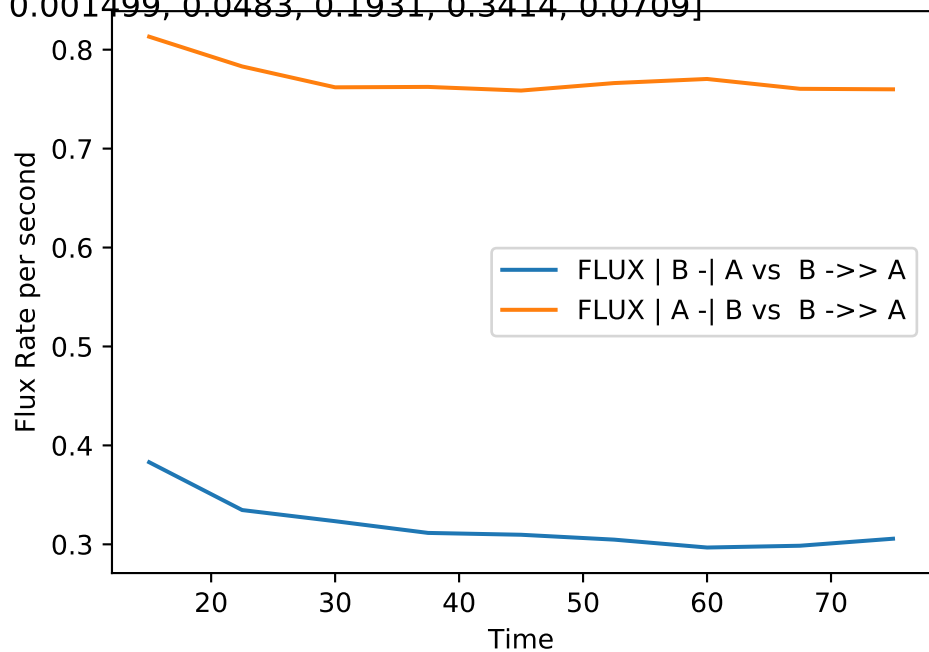
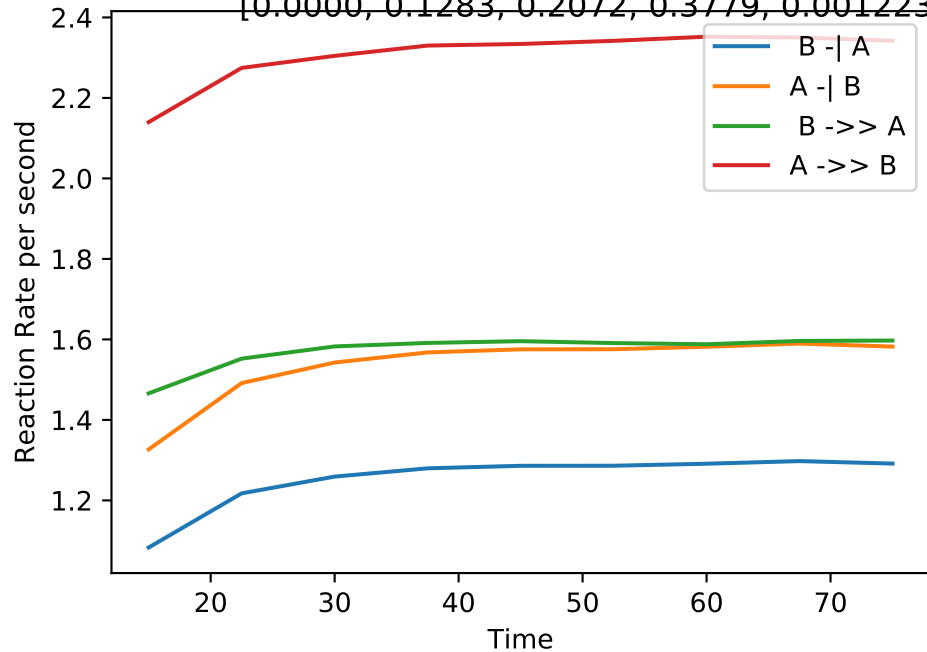
Double_up | MB-LLS Double_up(#138):

[0.0000, 0.0000, 0.5367, 0.0339, 0.001296, 0.001873, 0.0978, 0.4684, 0.0604, 0.0316]



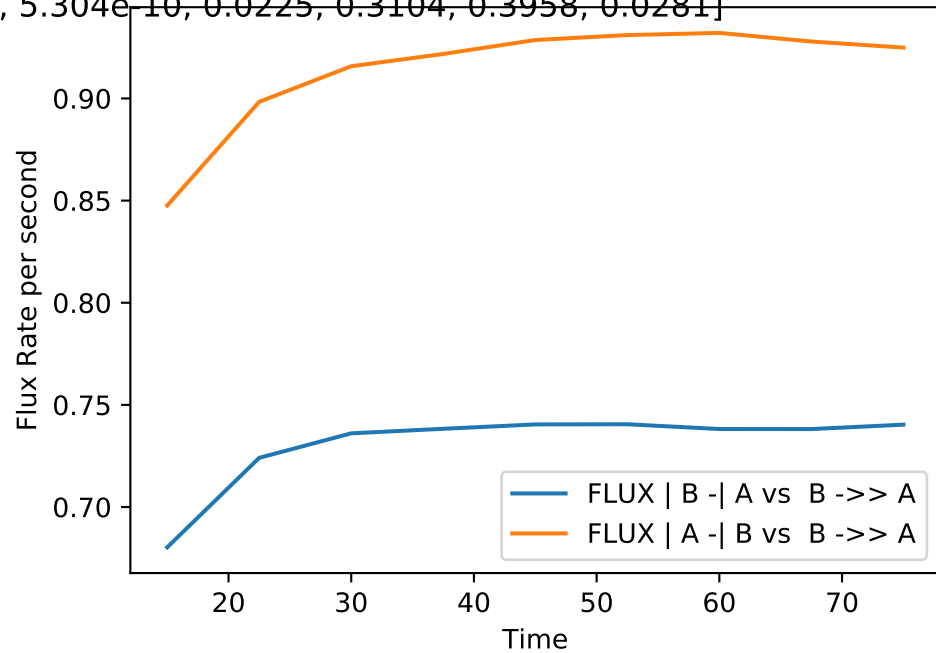
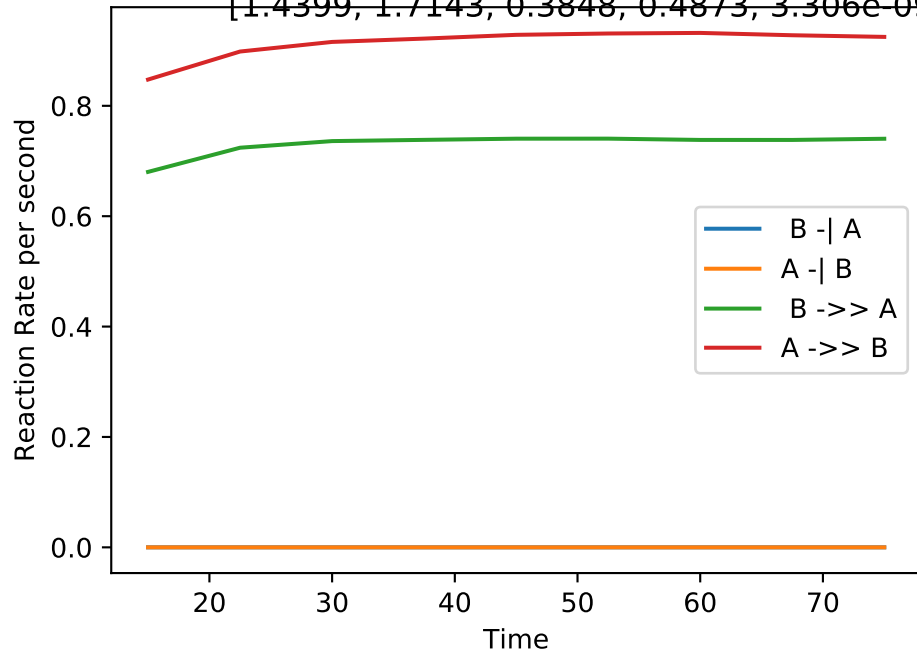
Double_up | MB-LLS Double_up(#139):

[0.0000, 0.1283, 0.2072, 0.3779, 0.001223, 0.001499, 0.0483, 0.1931, 0.3414, 0.0709]



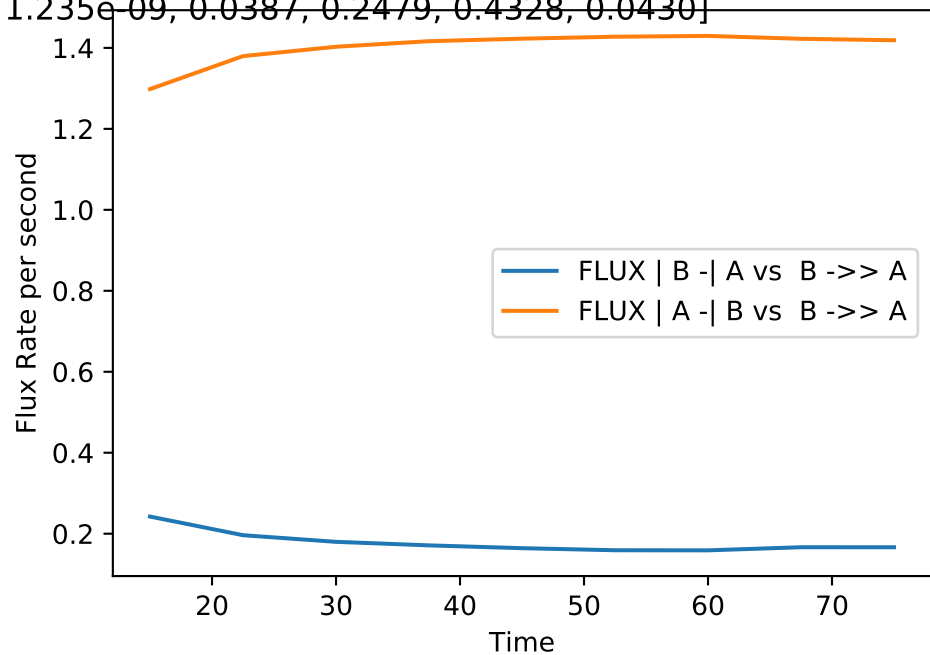
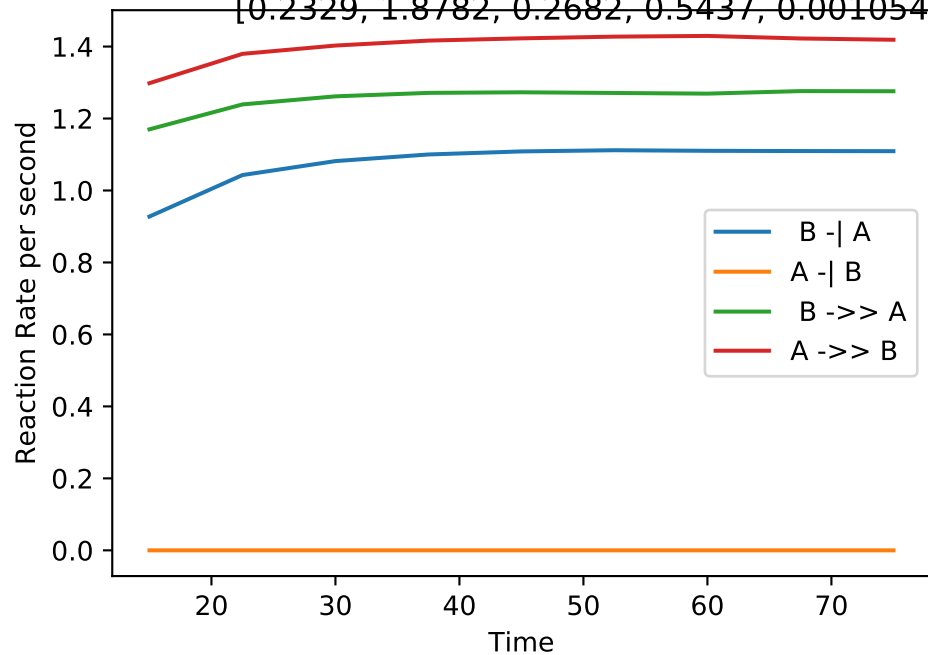
Double_up | MB-LLS Double_up(#140):

[1.4399, 1.7143, 0.3848, 0.4873, 3.306e-09, 5.304e-10, 0.0225, 0.3104, 0.3958, 0.0281]



Double_up | MB-LLS Double_up(#141):

[0.2329, 1.8782, 0.2682, 0.5437, 0.001054, 1.235e-09, 0.0387, 0.2479, 0.4328, 0.0430]



Double_up | MB-LLS Double_up(#142):

[1.2013, 1.4479, 0.6326, 0.2036, 1.532e-10, 0.000378, 0.0624, 0.5196, 0.1668, 0.0000]

Reaction Rate per second

2.0
1.5
1.0
0.5
0.0

20

30

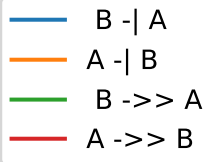
40

50

60

70

Time



Flux Rate per second

2.0
1.5
1.0
0.5
0.0
-0.5

20

30

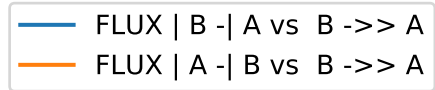
40

50

60

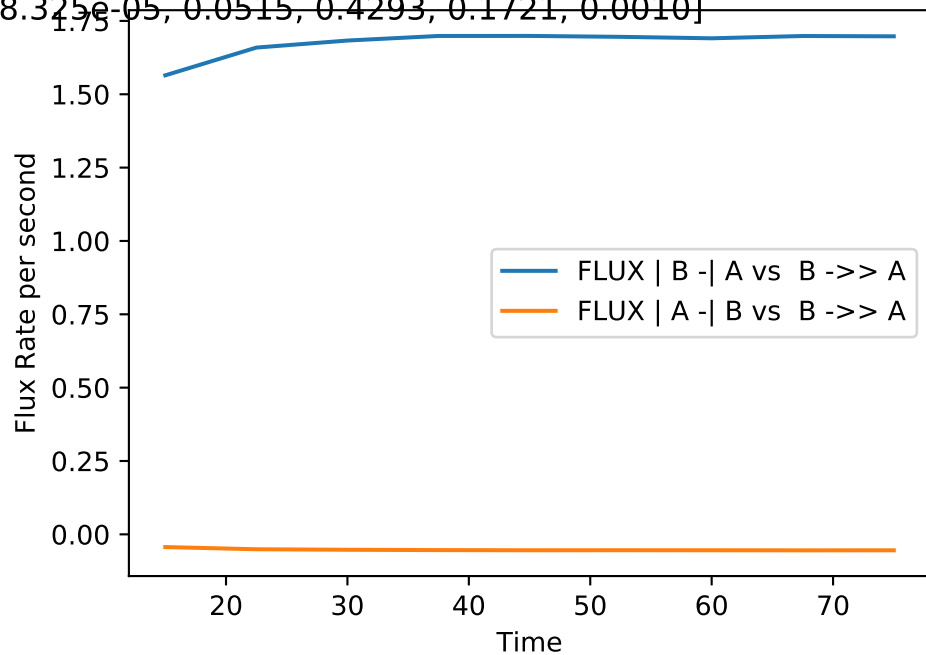
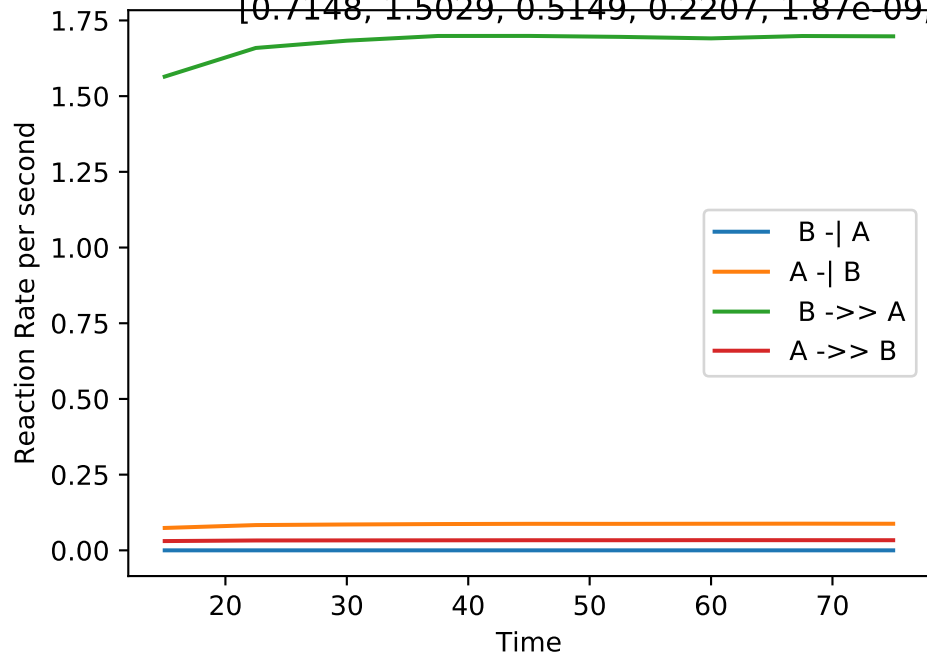
70

Time



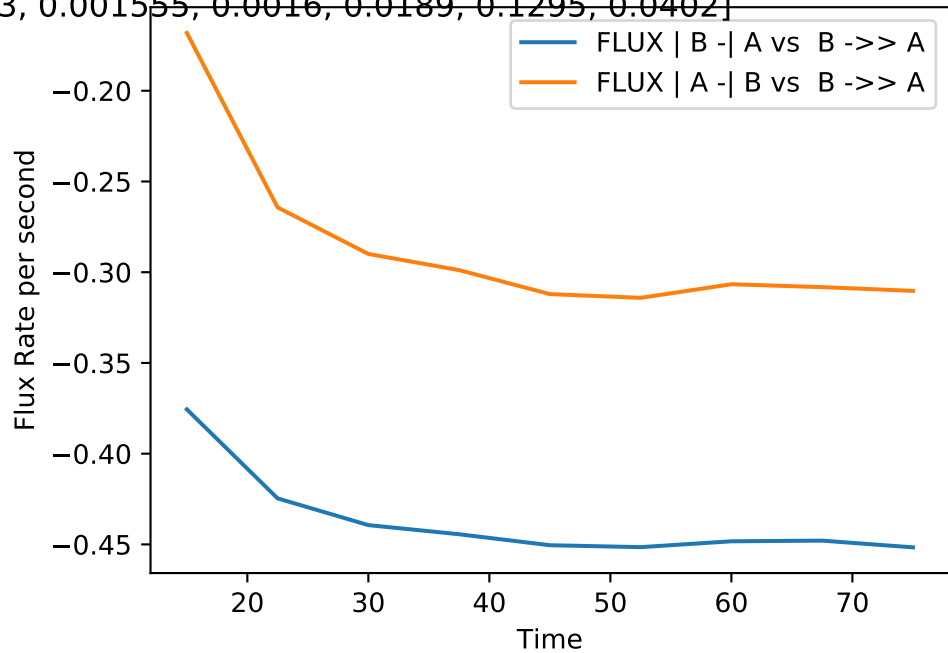
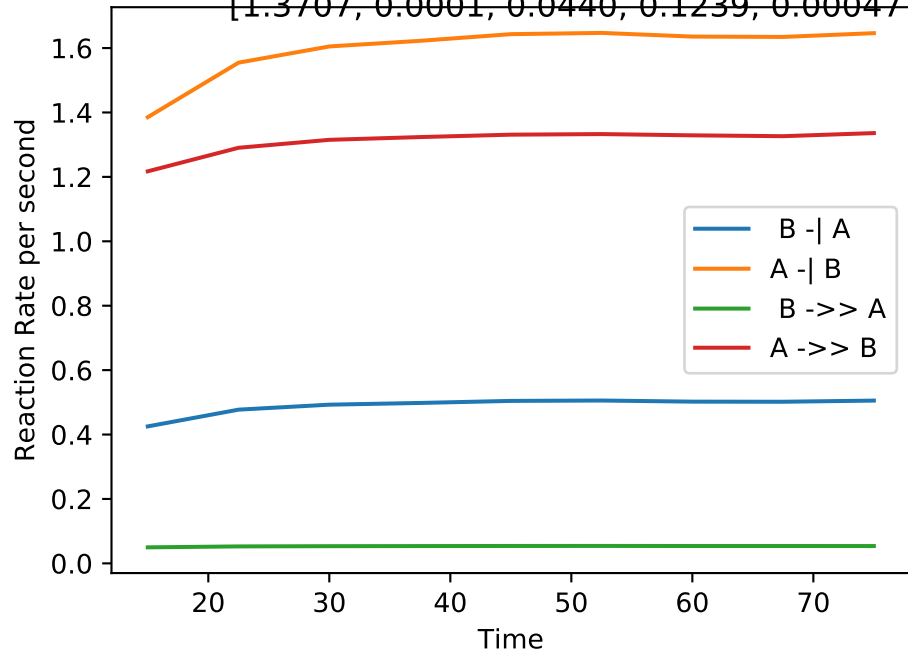
Double_up | MB-LLS Double_up(#143):

[0.7148, 1.5029, 0.5149, 0.2207, 1.87e-09, 8.325e-05, 0.0515, 0.4293, 0.1721, 0.0010]



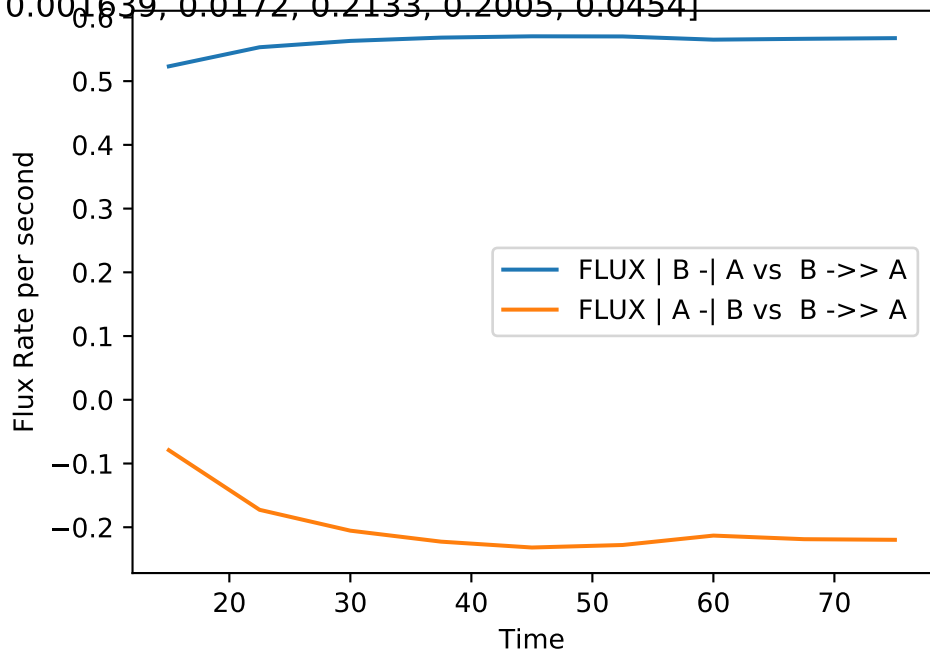
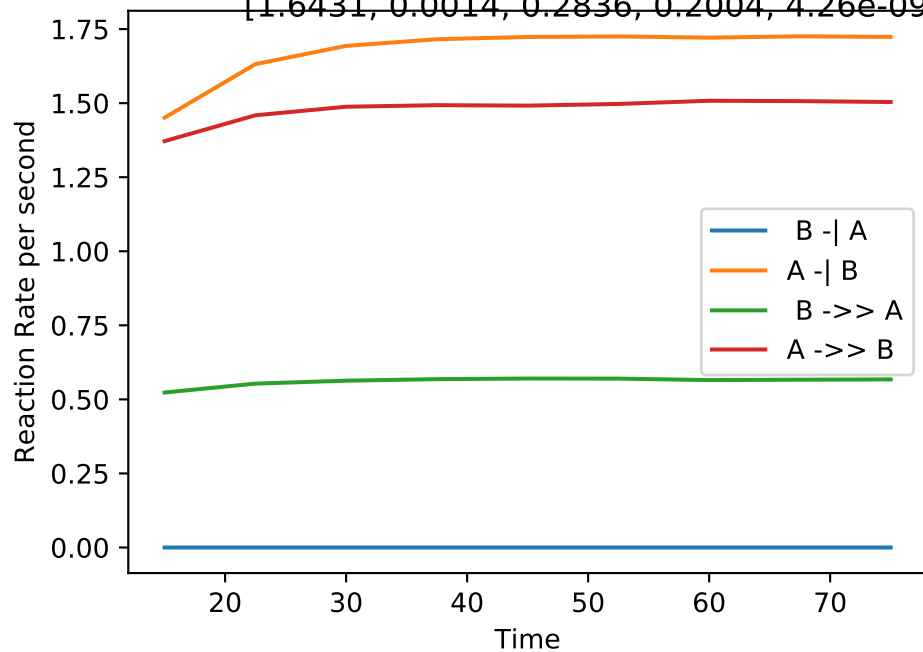
Double_up | MB-LLS Double_up(#144):

[1.3707, 0.0001, 0.0440, 0.1239, 0.0004773, 0.001555, 0.0016, 0.0189, 0.1295, 0.0402]



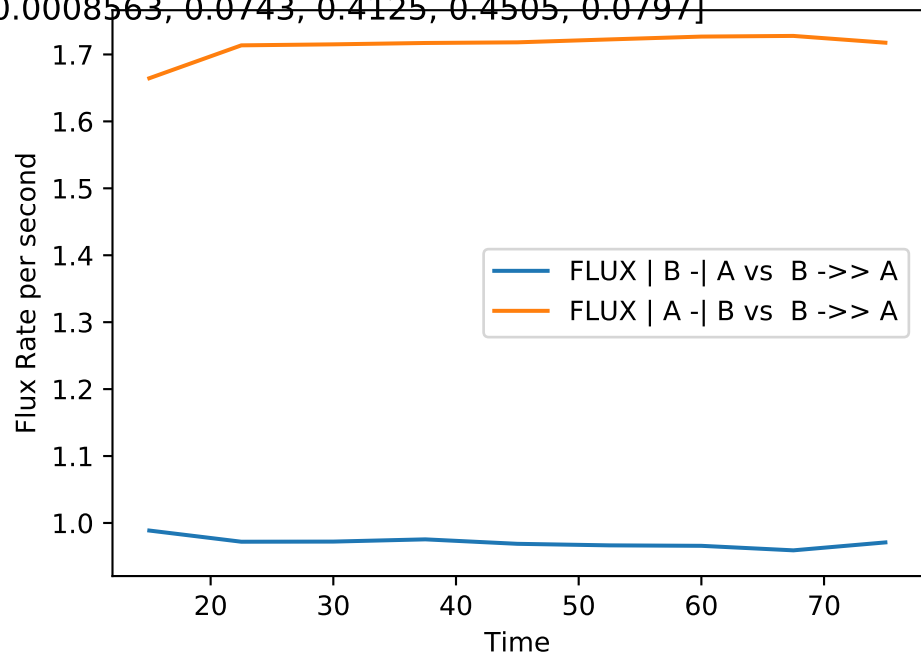
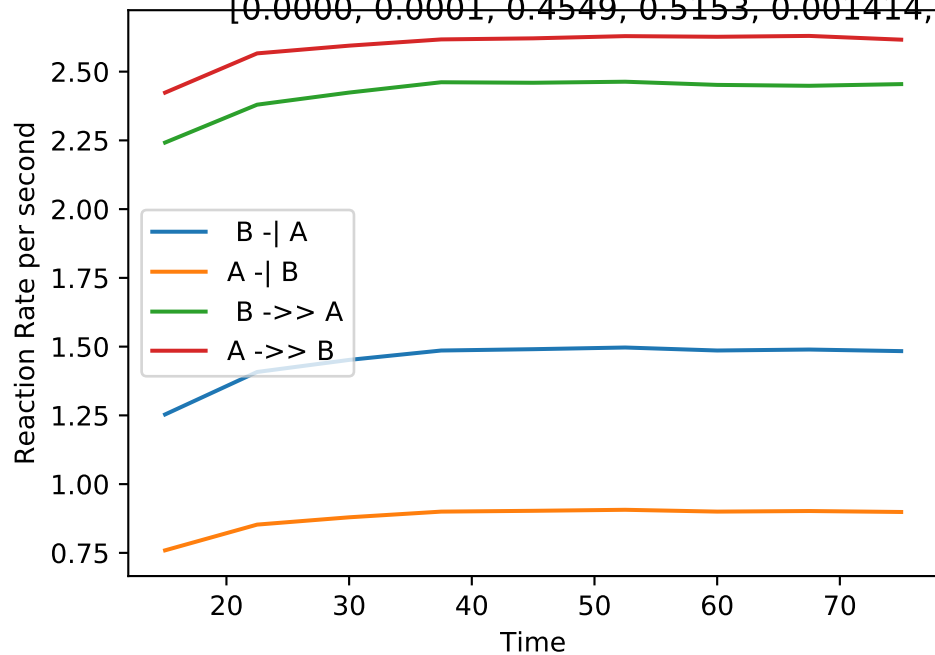
Double_up | MB-LLS Double_up(#145):

[1.6431, 0.0014, 0.2836, 0.2004, 4.26e-09, 0.001639, 0.0172, 0.2133, 0.2005, 0.0454]



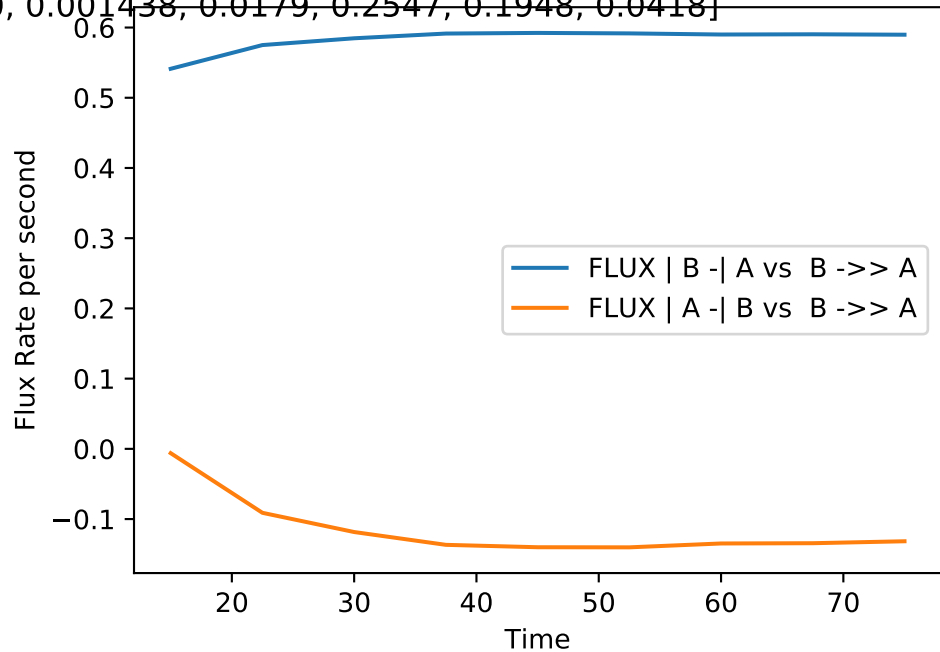
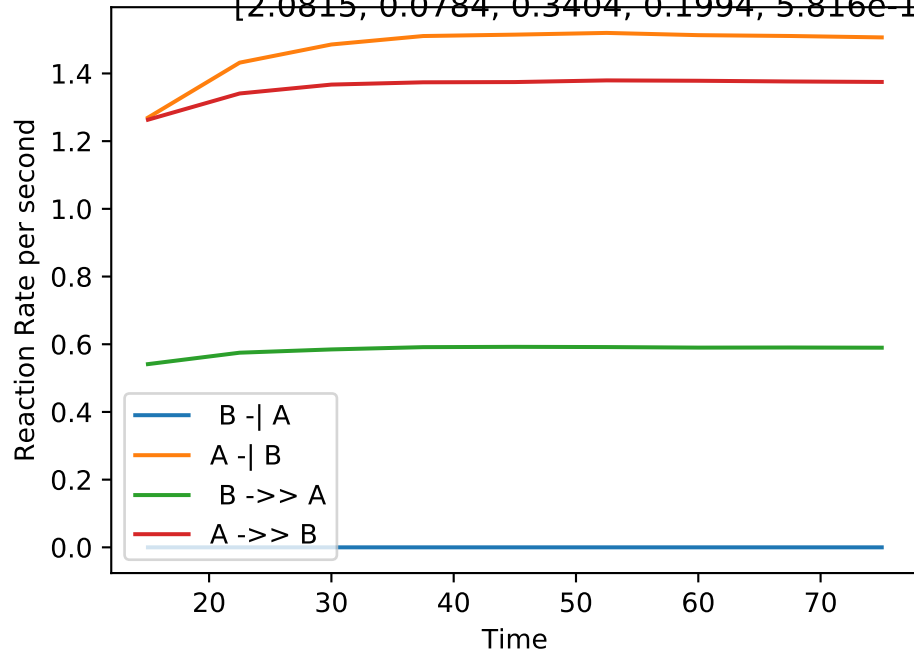
Double_up | MB-LLS Double_up(#146):

[0.0000, 0.0001, 0.4549, 0.5153, 0.001414, 0.0008563, 0.0743, 0.4125, 0.4505, 0.0797]



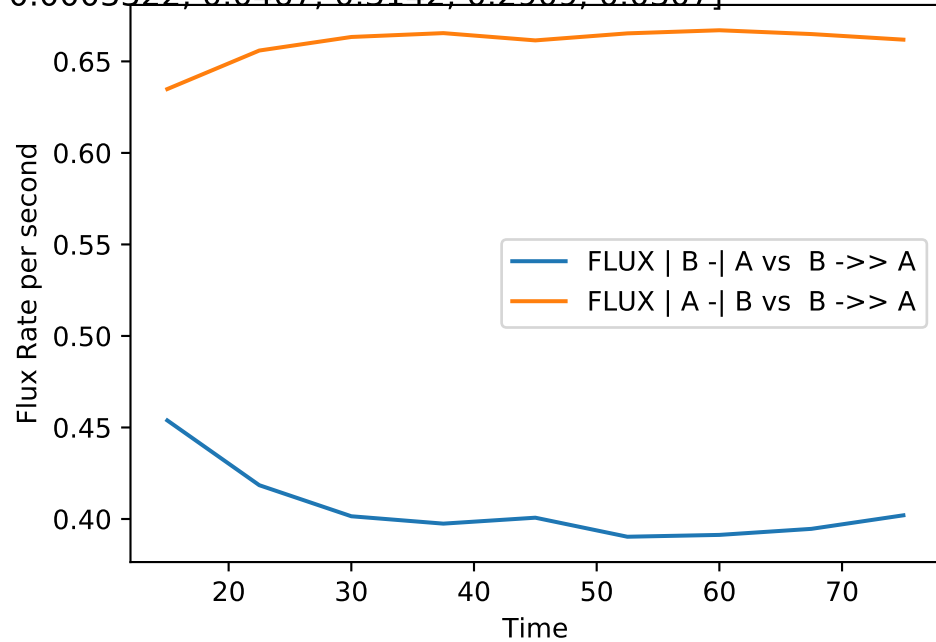
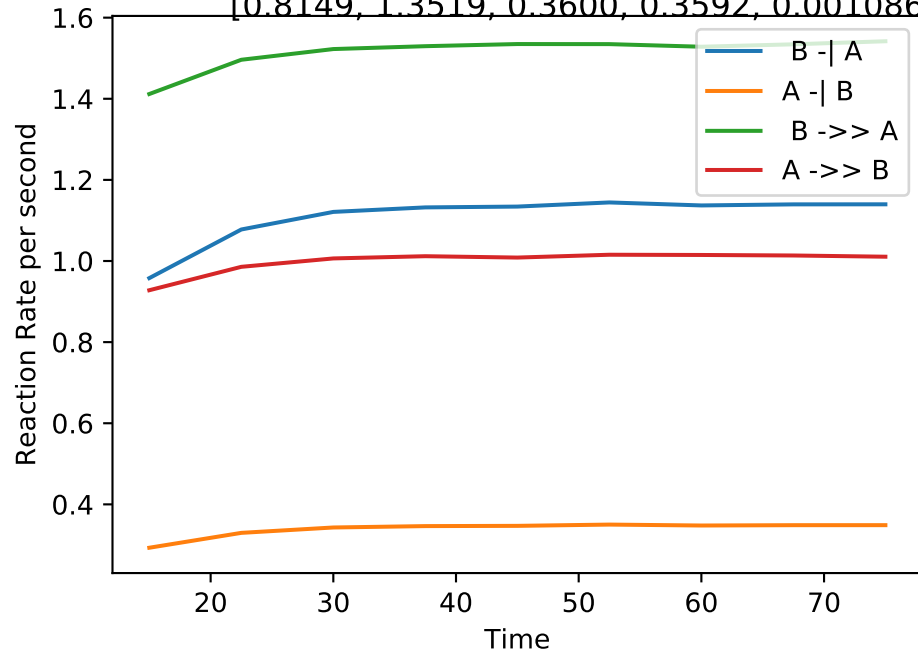
Double_up | MB-LLS Double_up(#147):

[2.0815, 0.0784, 0.3404, 0.1994, 5.816e-10, 0.001438, 0.0179, 0.2547, 0.1948, 0.0418]



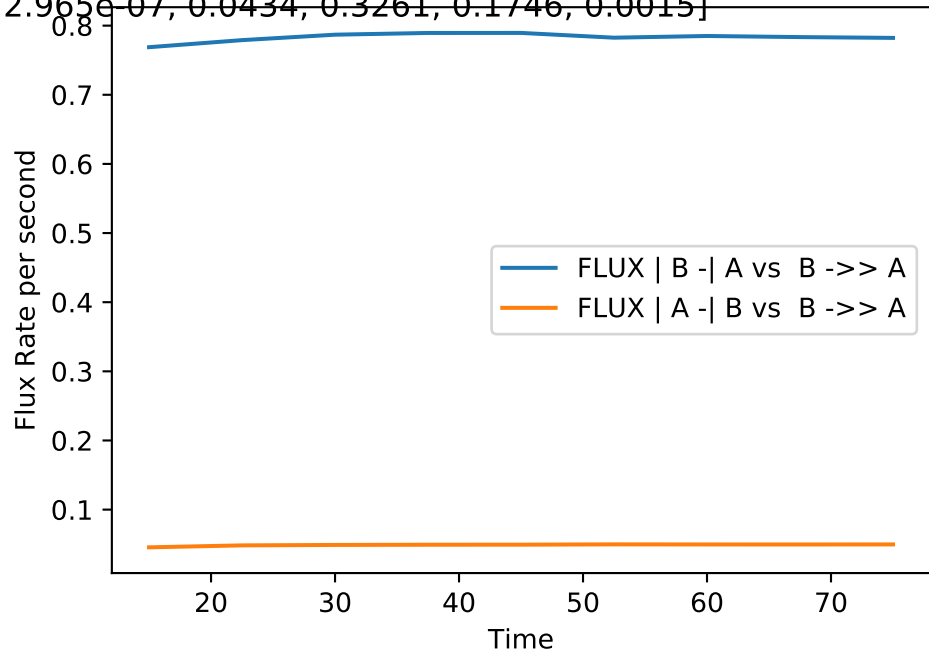
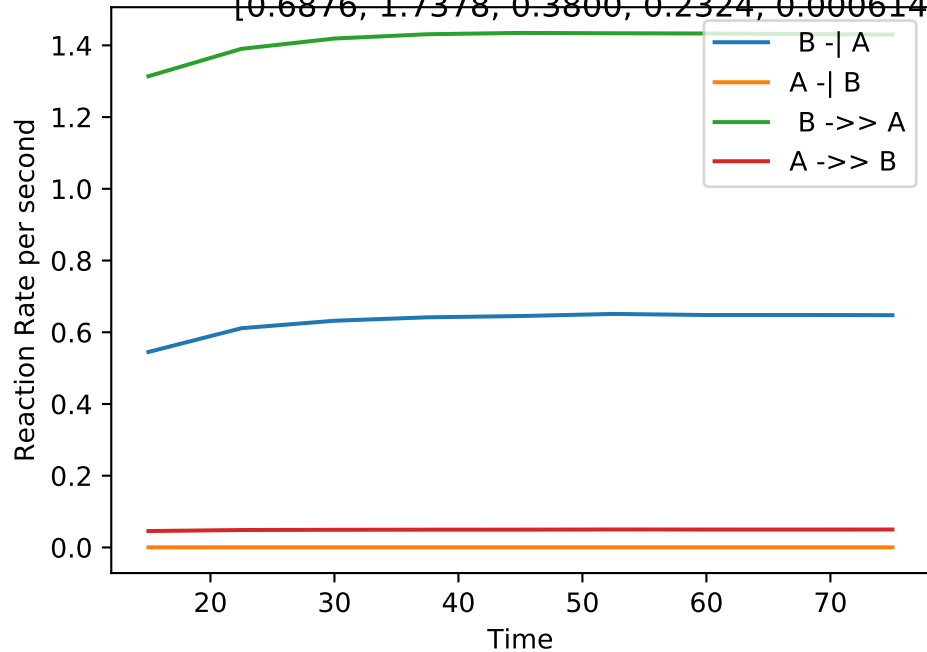
Double_up | MB-LLS Double_up(#148):

[0.8149, 1.3519, 0.3600, 0.3592, 0.001086, 0.0003322, 0.0467, 0.3142, 0.2909, 0.0307]



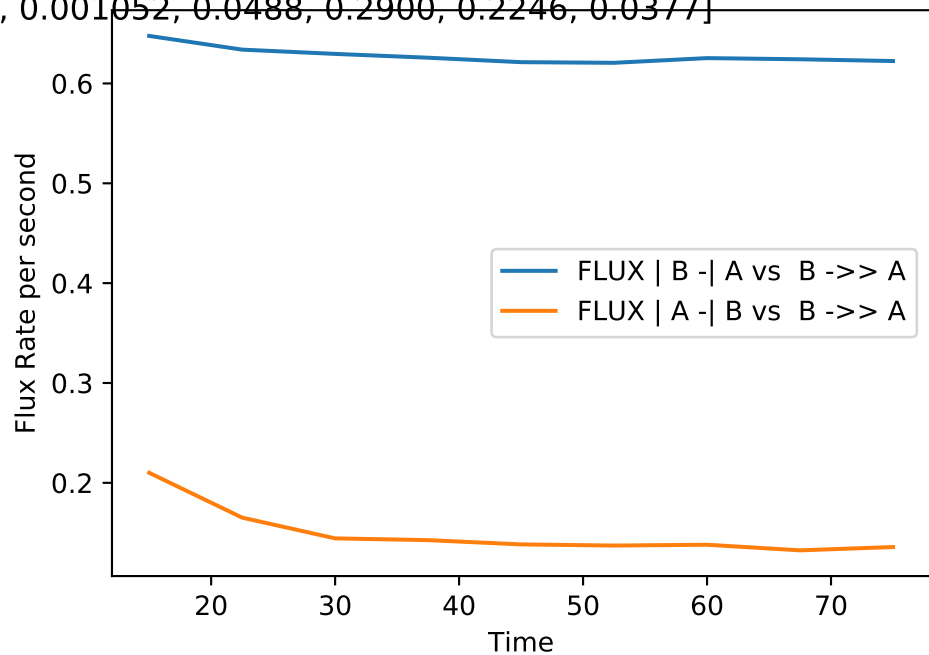
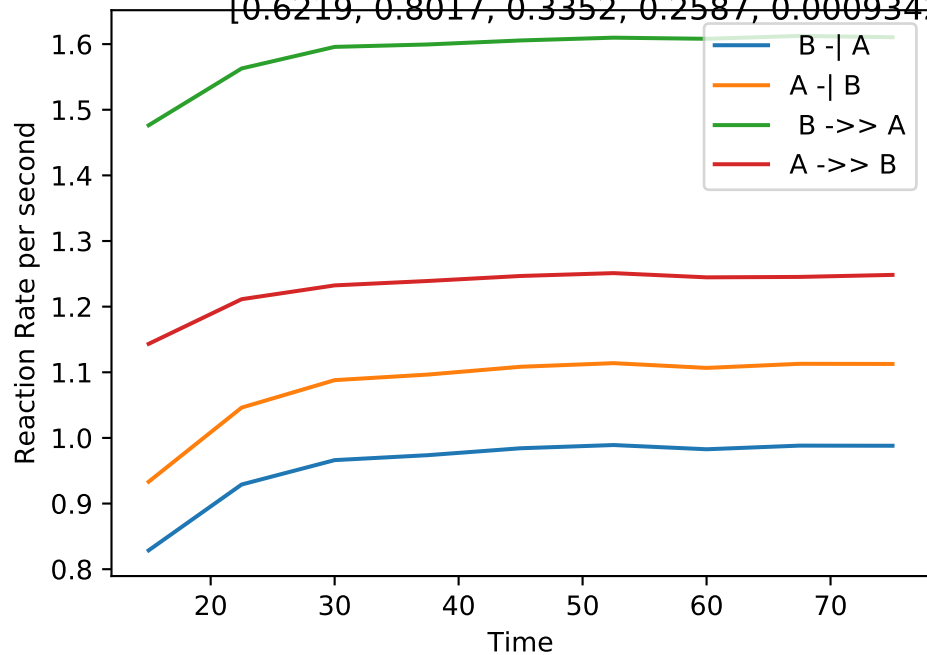
Double_up | MB-LLS Double_up(#149):

[0.6876, 1.7378, 0.3800, 0.2324, 0.000614, 2.965e-07, 0.0434, 0.3261, 0.1746, 0.0015]



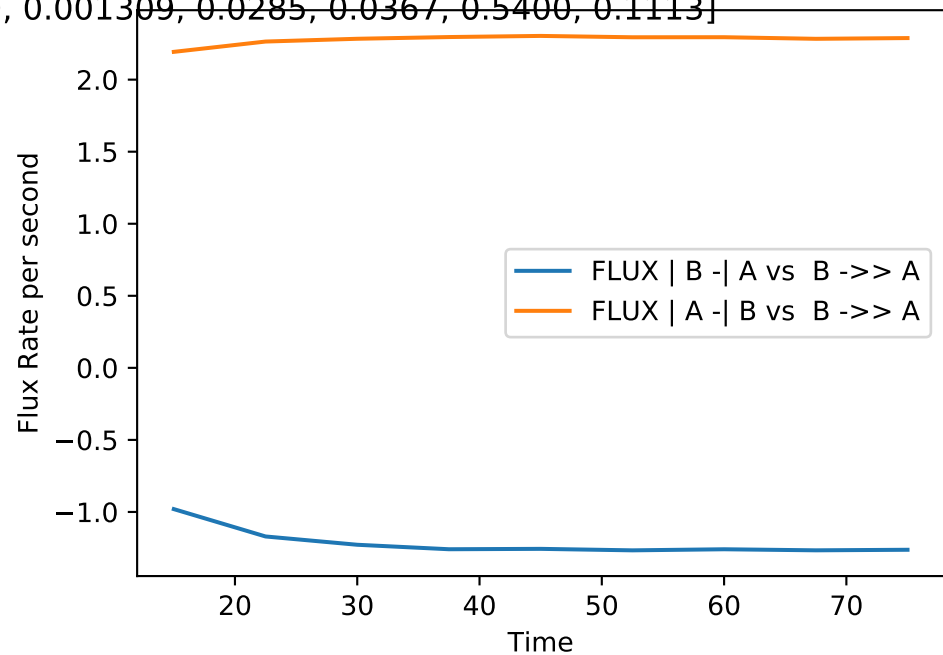
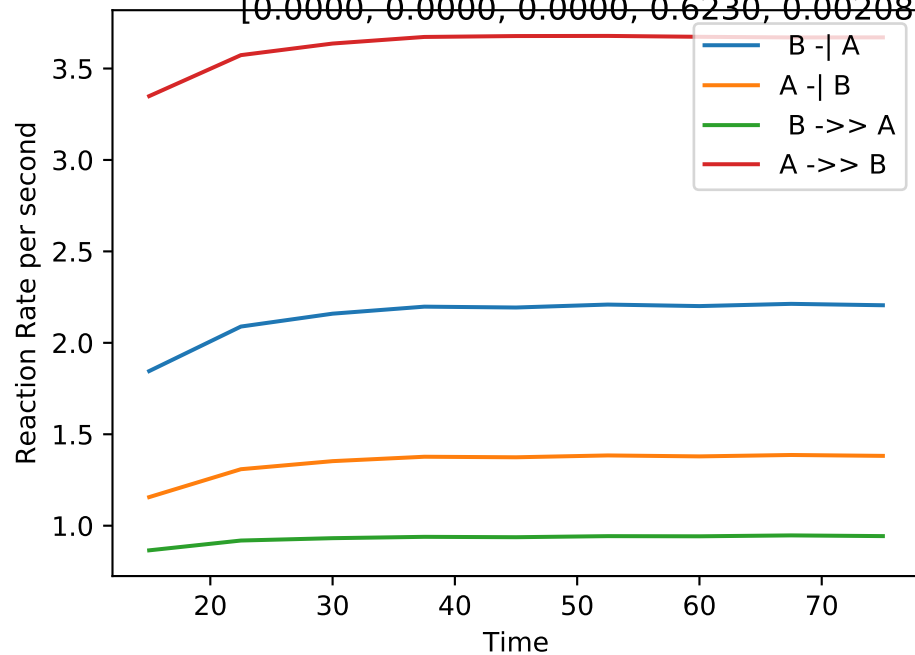
Double_up | MB-LLS Double_up(#150):

[0.6219, 0.8017, 0.3352, 0.2587, 0.0009342, 0.001052, 0.0488, 0.2900, 0.2246, 0.0377]



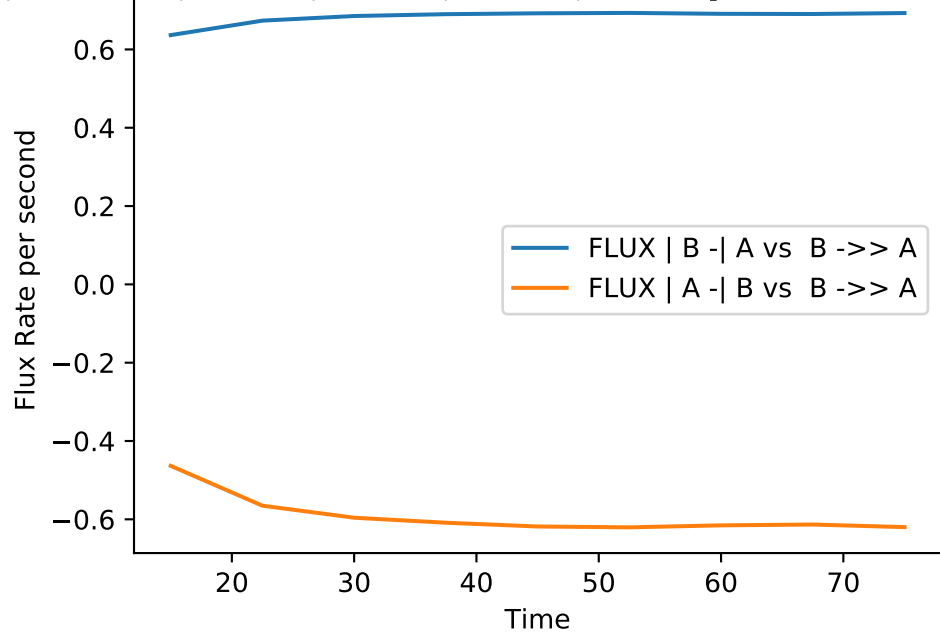
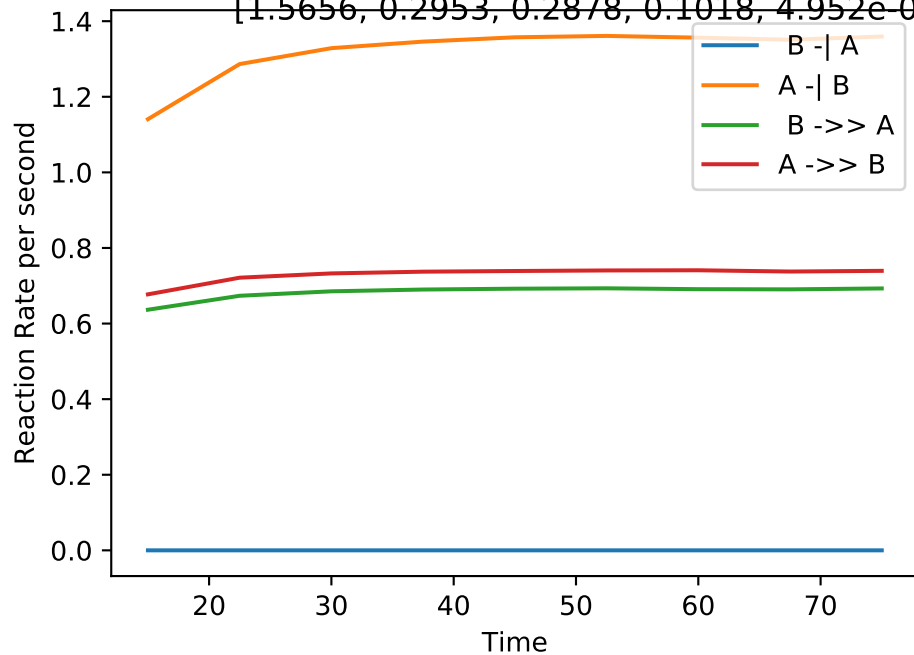
Double_up | MB-LLS Double_up(#151):

[0.0000, 0.0000, 0.0000, 0.6230, 0.002089, 0.001309, 0.0285, 0.0367, 0.5400, 0.1113]



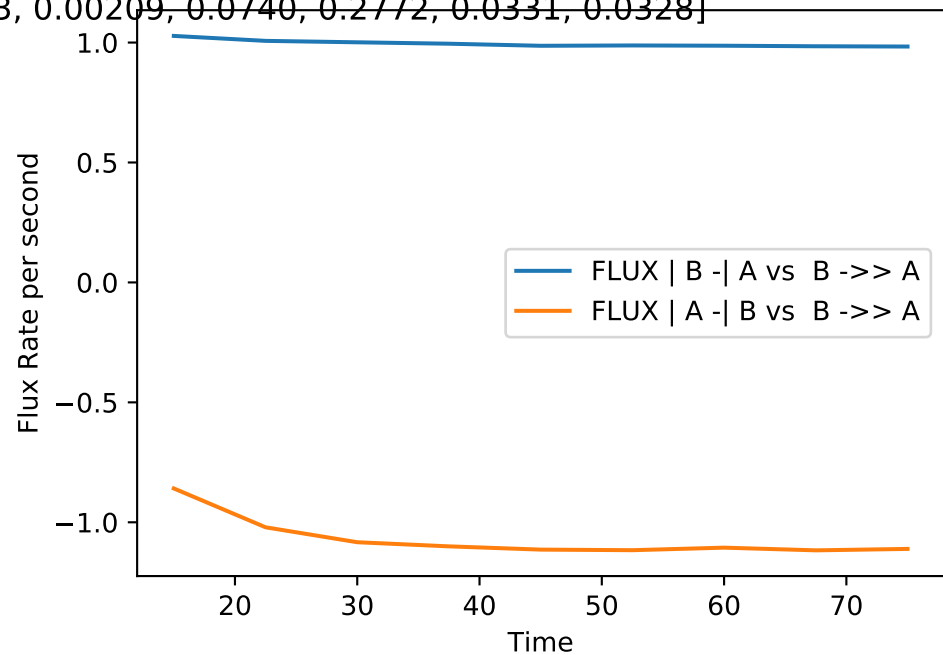
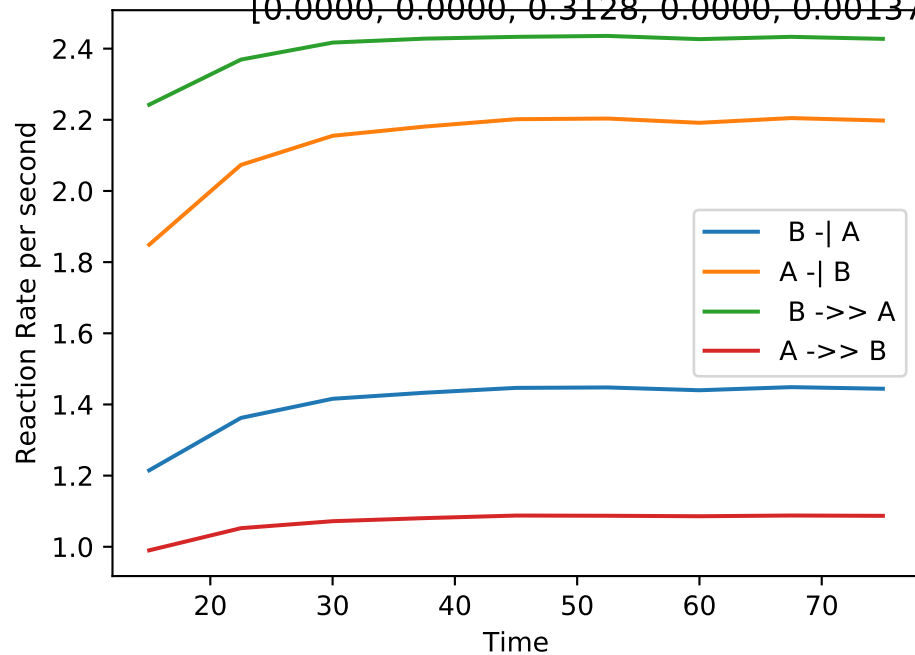
Double_up | MB-LLS Double_up(#152):

[1.5656, 0.2953, 0.2878, 0.1018, 4.952e-09, 0.001289, 0.0210, 0.2163, 0.1078, 0.0224]



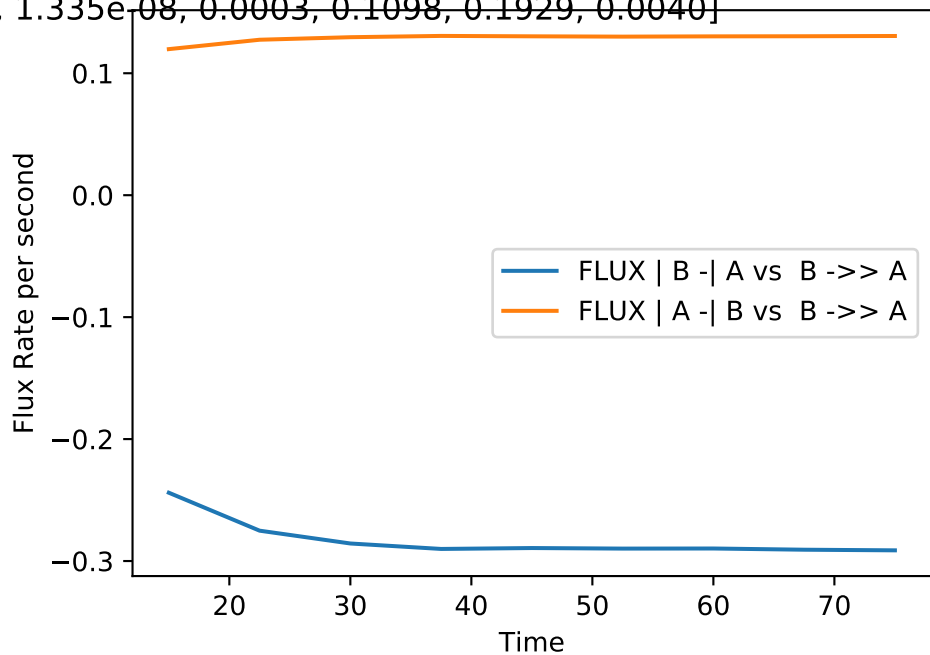
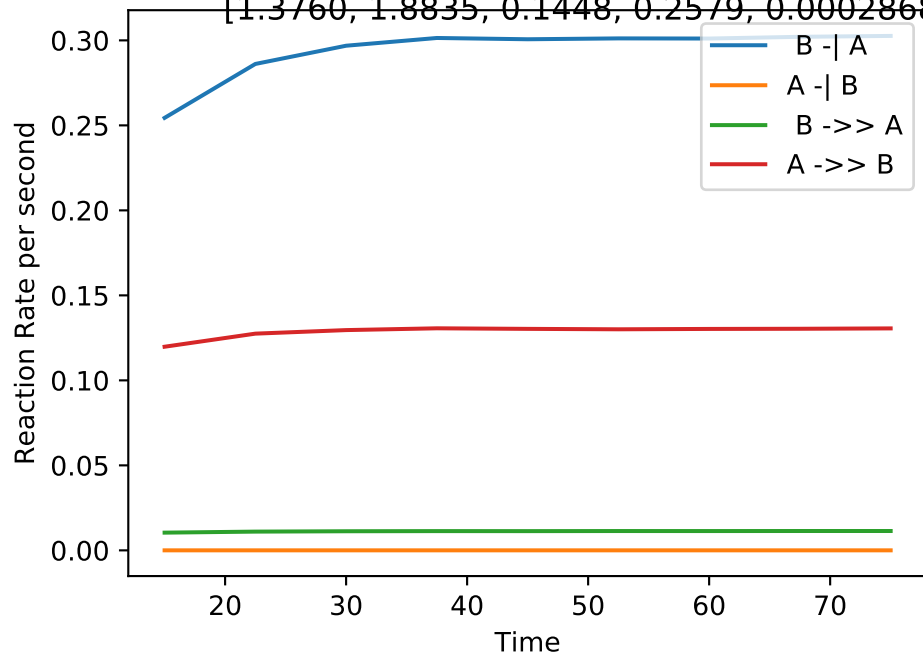
Double_up | MB-LLS Double_up(#153):

[0.0000, 0.0000, 0.3128, 0.0000, 0.001373, 0.00209, 0.0740, 0.2772, 0.0331, 0.0328]



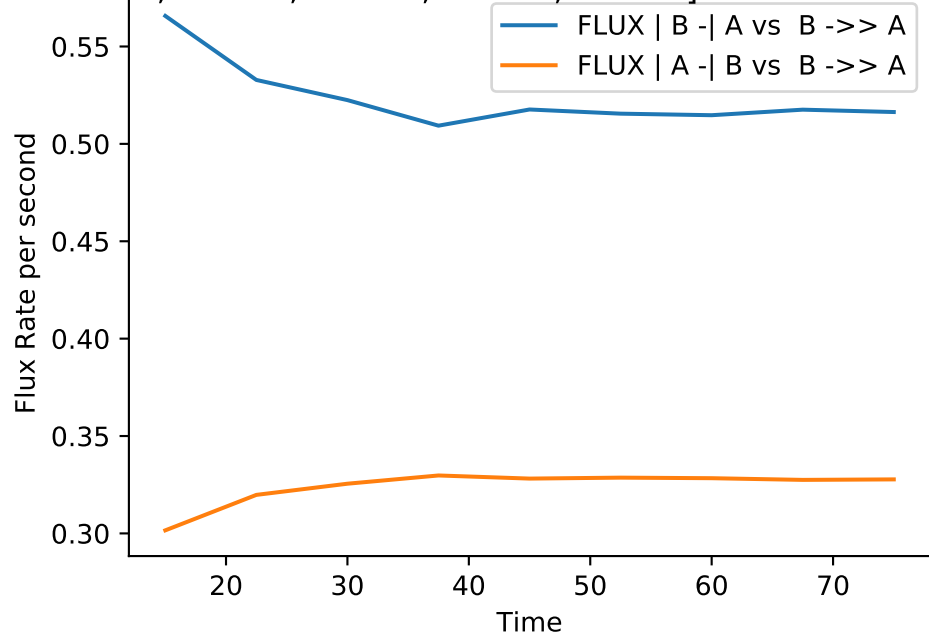
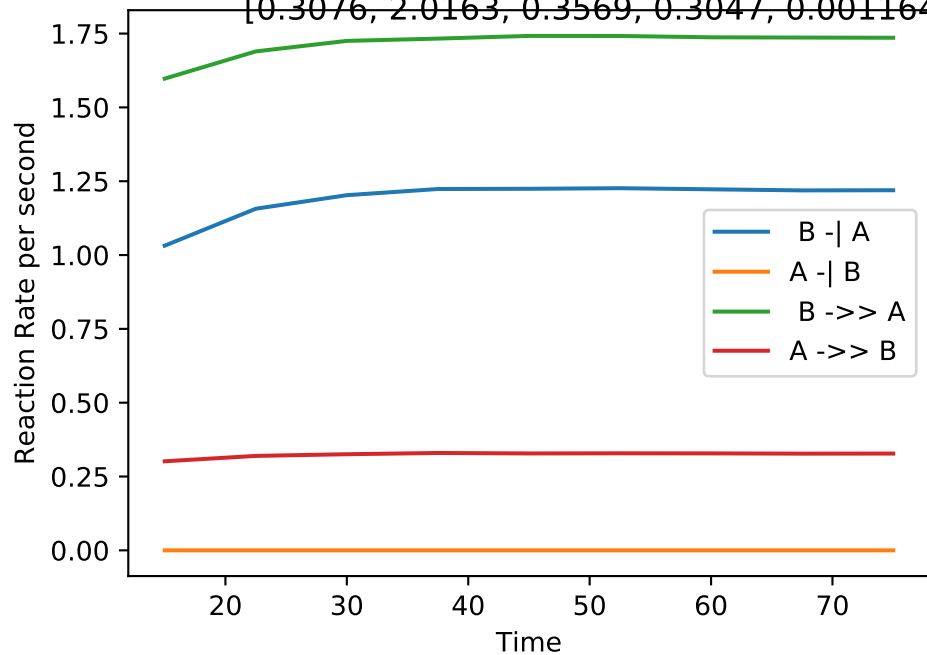
Double_up | MB-LLS Double_up(#154):

[1.3760, 1.8835, 0.1448, 0.2579, 0.0002868, 1.335e-08, 0.0003, 0.1098, 0.1929, 0.0040]



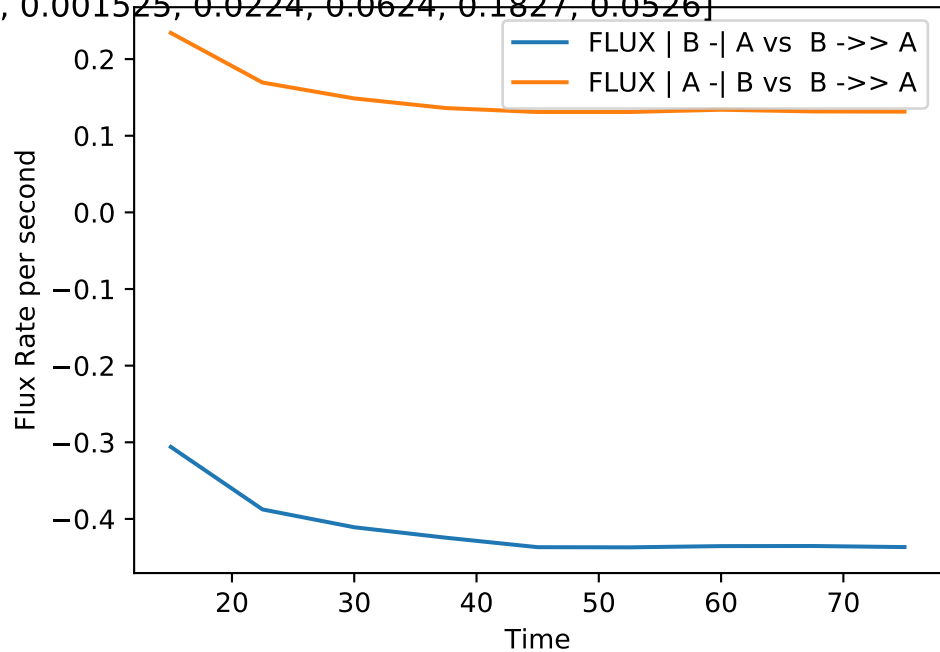
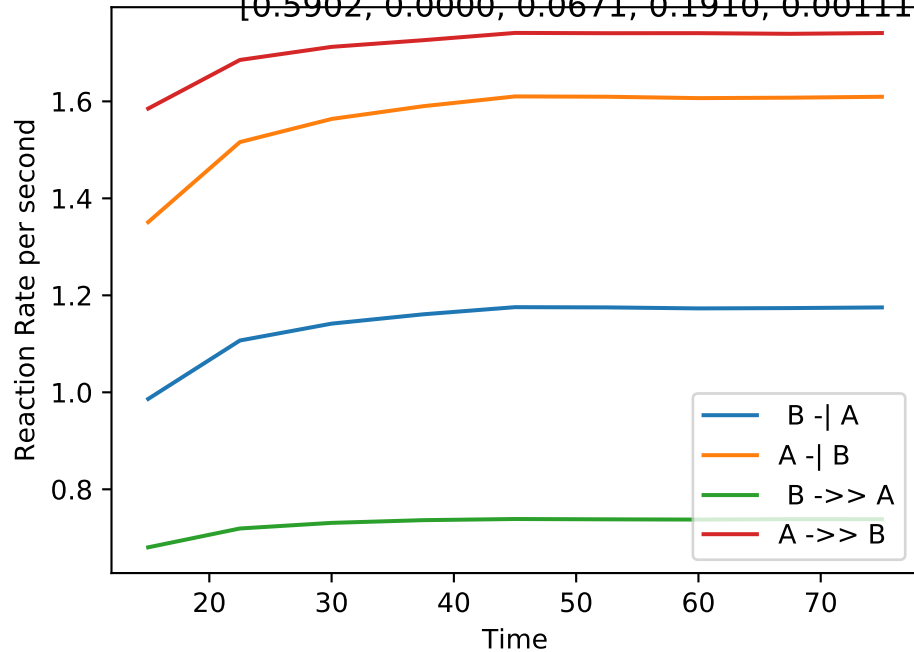
Double_up | MB-LLS Double_up(#155):

[0.3076, 2.0163, 0.3569, 0.3047, 0.001164, 6.68e-09, 0.0528, 0.3221, 0.2291, 0.0099]



Double_up | MB-LLS Double_up(#156):

[0.5902, 0.0000, 0.0671, 0.1910, 0.001114, 0.001525, 0.0224, 0.0624, 0.1827, 0.0526]



Double_up | MB-LLS Double_up(#157):

[1.2394, 1.4225, 0.1964, 0.8322, 0.0002913, 3.239e-11, 0.0000, 0.1629, 0.6881, 0.0813]

Reaction Rate per second

2.5
2.0
1.5
1.0
0.5
0.0

20

30

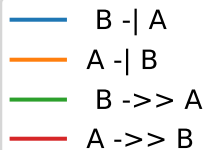
40

50

60

70

Time



Flux Rate per second

2.5
2.0
1.5
1.0
0.5
0.0

20

30

40

50

60

70

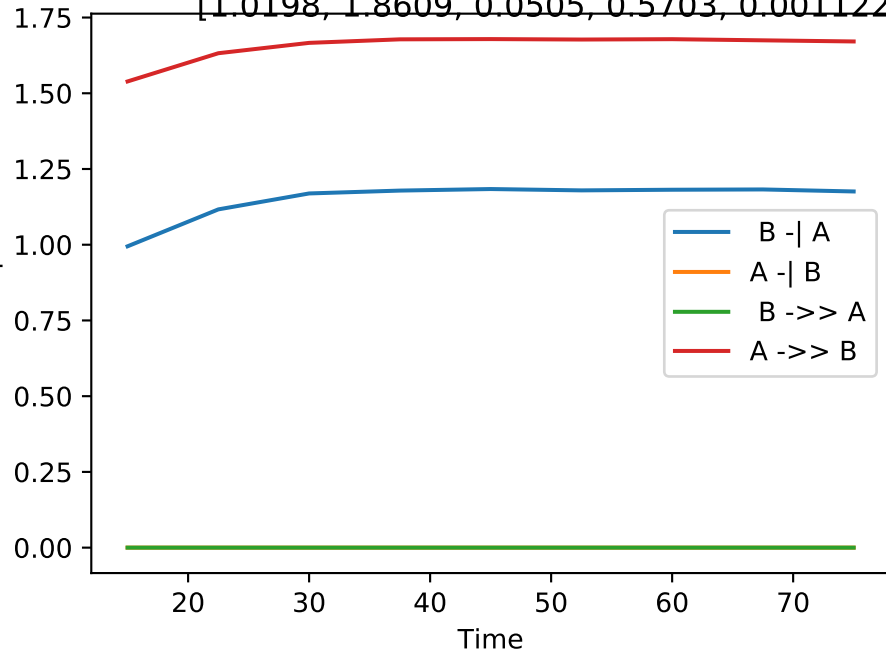
Time



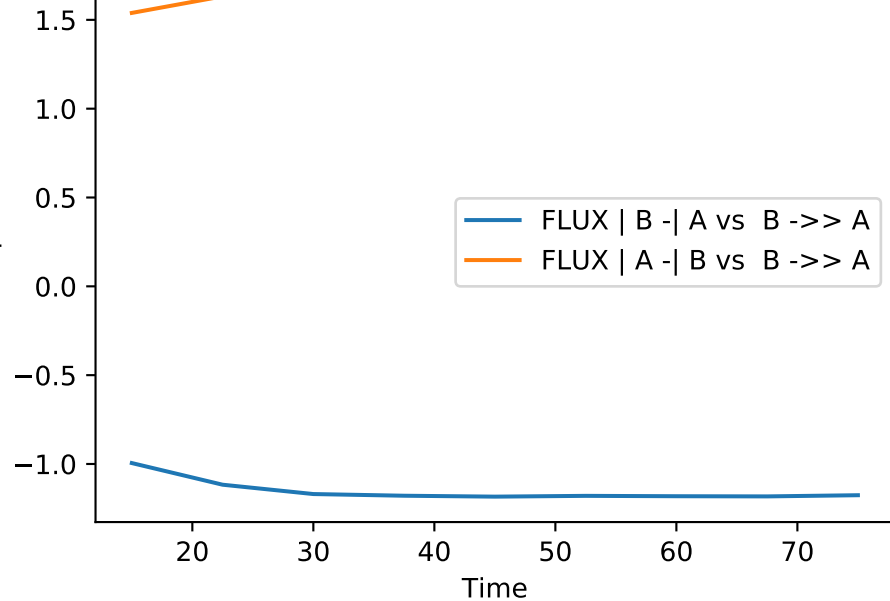
Double_up | MB-LLS Double_up(#158):

[1.0198, 1.8609, 0.0505, 0.5703, 0.001122, 5.521e-08, 0.0000, 0.0534, 0.4527, 0.0509]

Reaction Rate per second

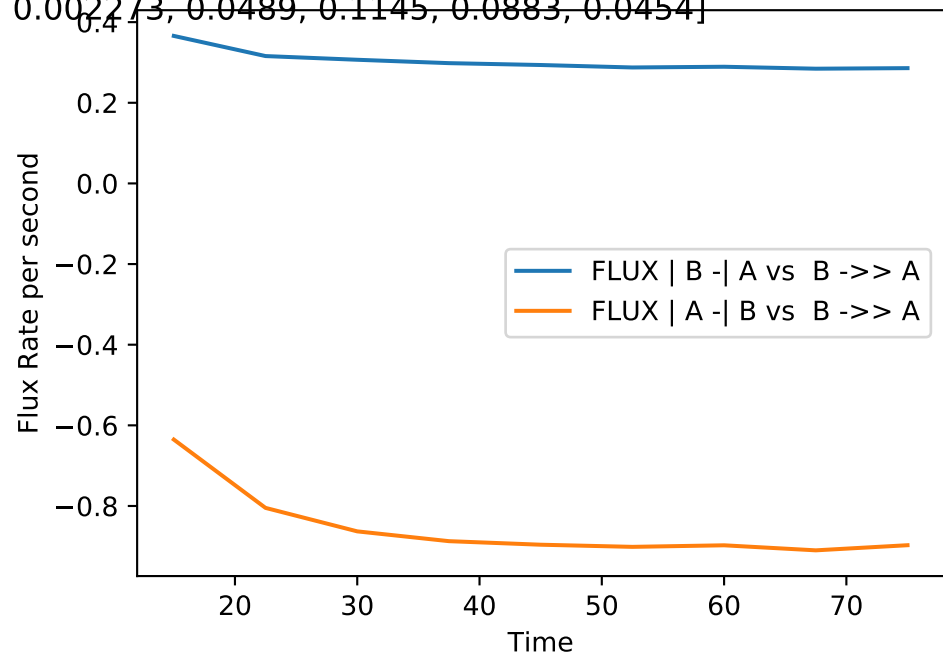
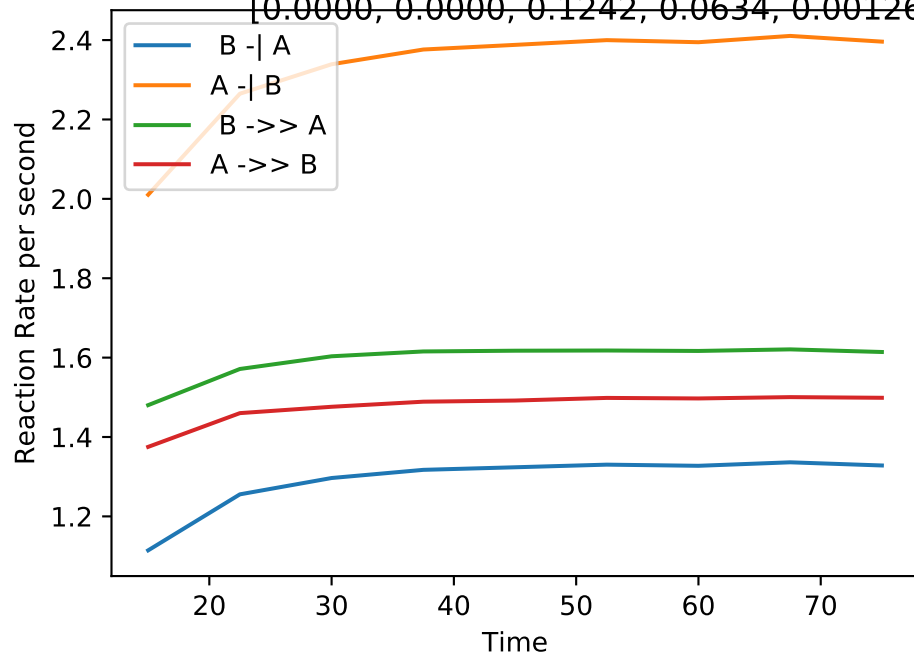


Flux Rate per second



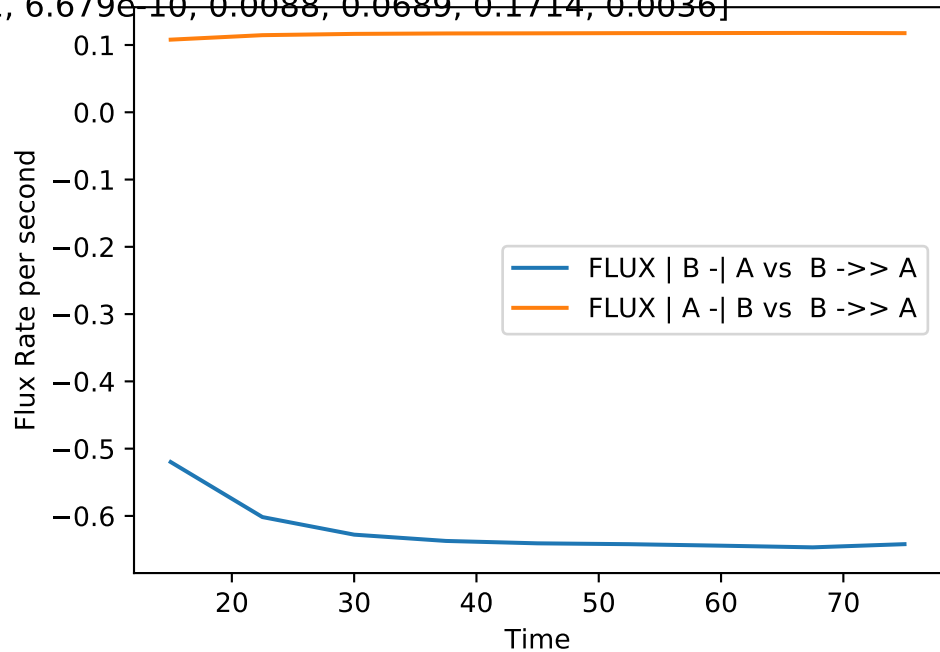
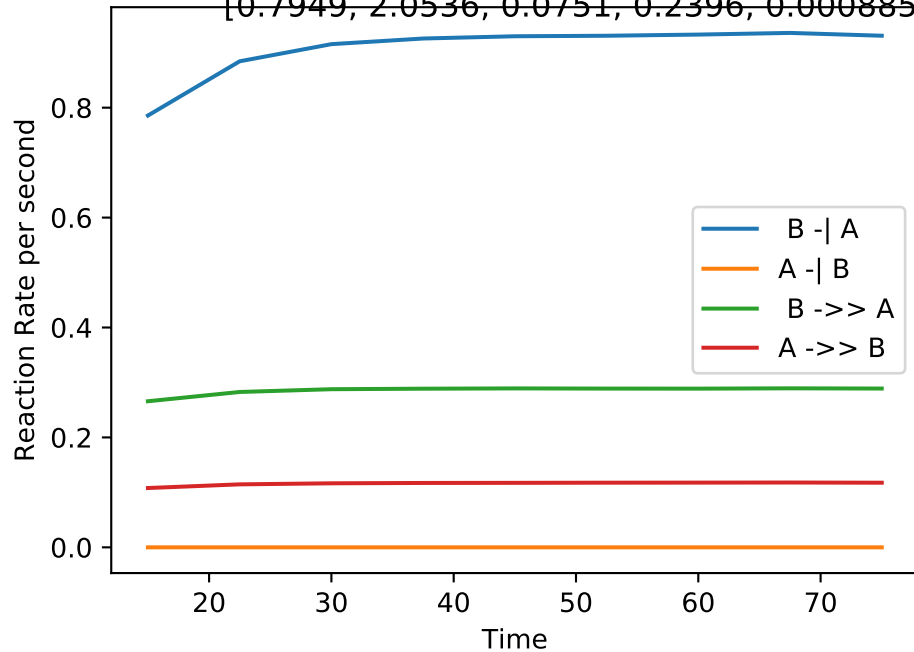
Double_up | MB-LLS Double_up(#159):

[0.0000, 0.0000, 0.1242, 0.0634, 0.00126, 0.002273, 0.0489, 0.1145, 0.0883, 0.0454]



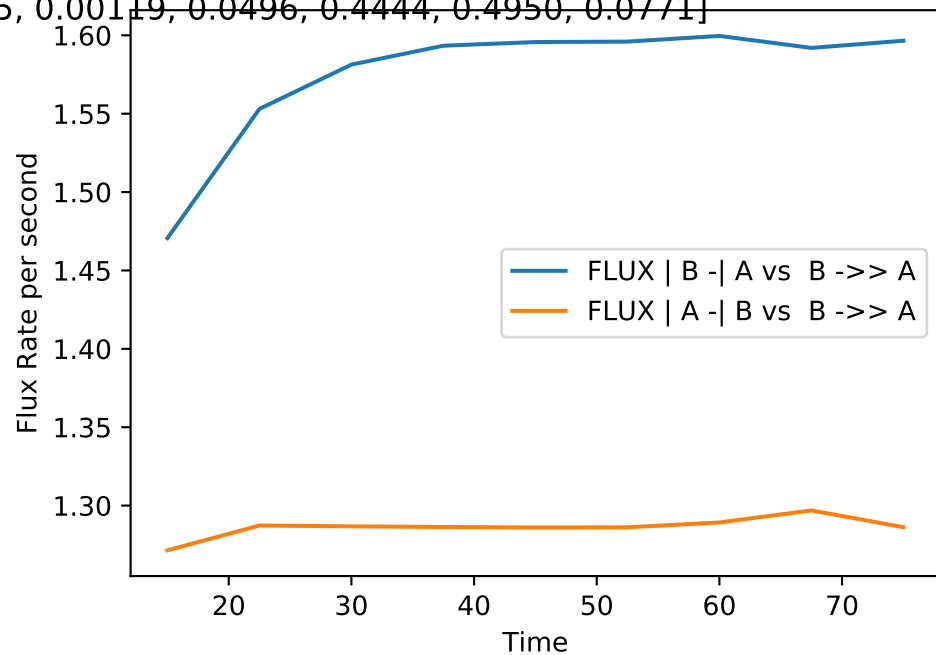
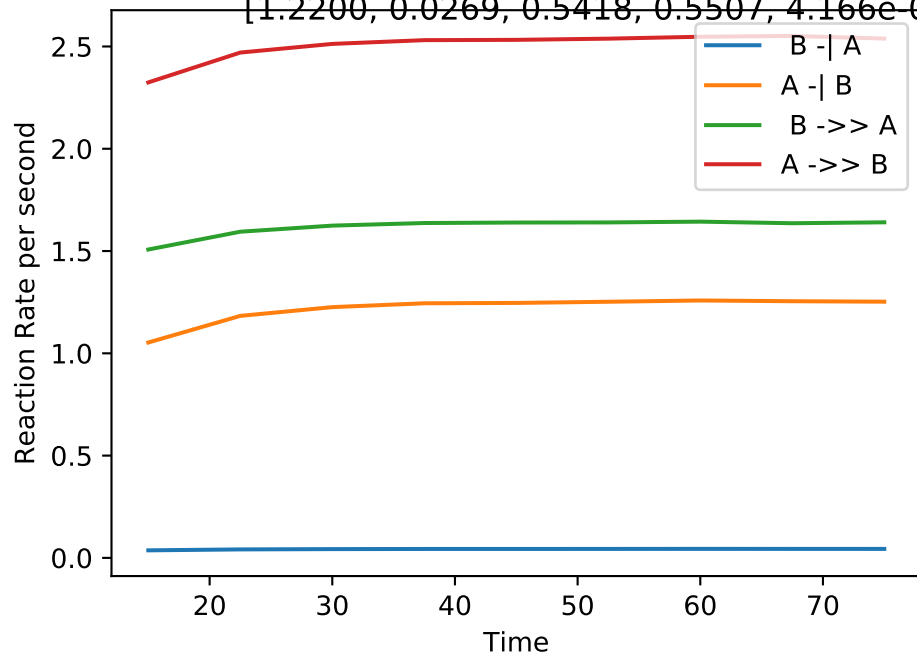
Double_up | MB-LLS Double_up(#160):

[0.7949, 2.0536, 0.0751, 0.2396, 0.0008851, 6.679e-10, 0.0088, 0.0689, 0.1714, 0.0036]



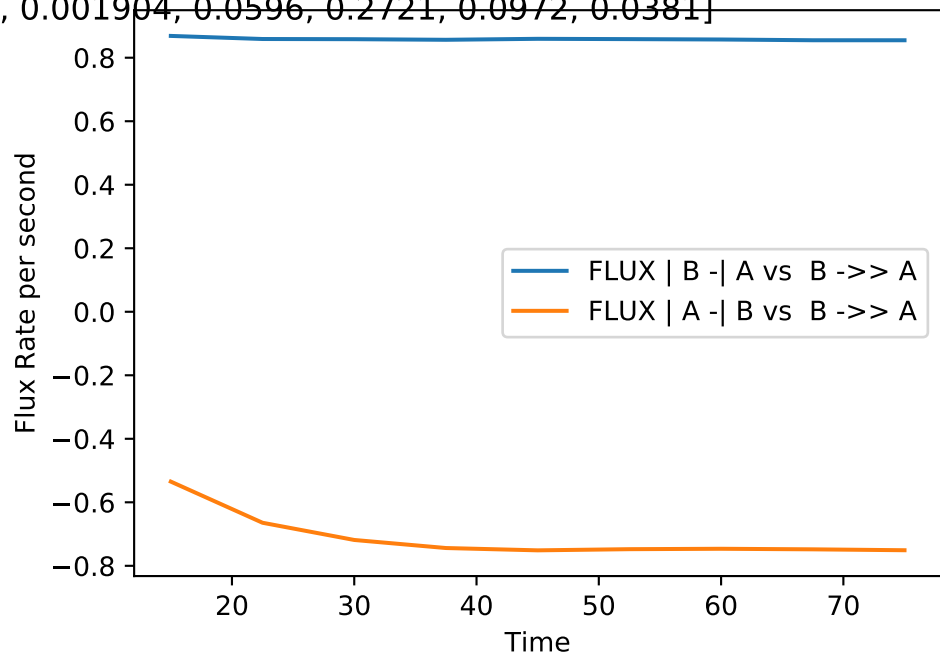
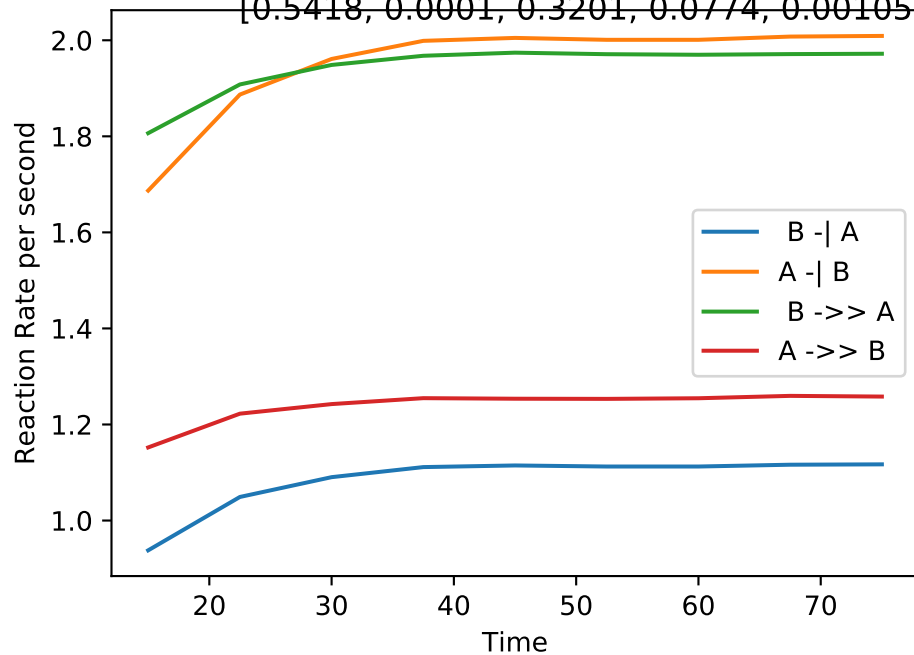
Double_up | MB-LLS Double_up(#161):

[1.2200, 0.0269, 0.5418, 0.5507, 4.166e-05, 0.00119, 0.0496, 0.4444, 0.4950, 0.0771]



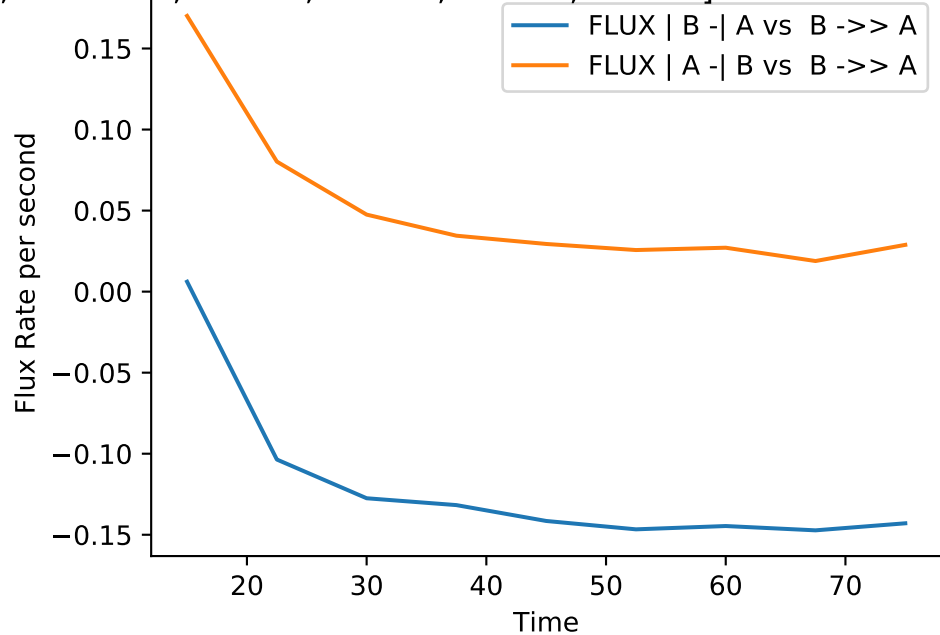
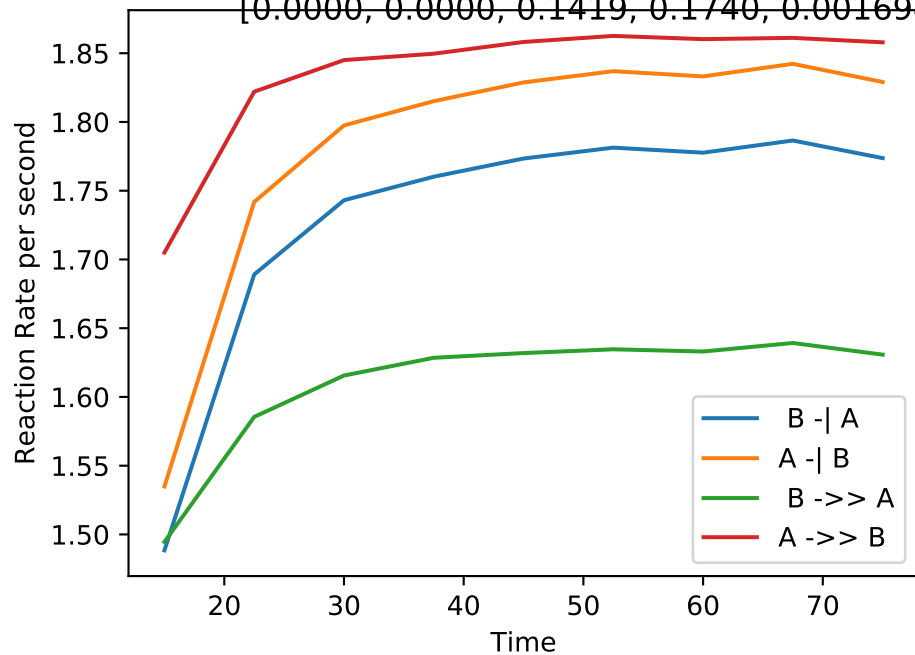
Double_up | MB-LLS Double_up(#162):

[0.5418, 0.0001, 0.3201, 0.0774, 0.001058, 0.001904, 0.0596, 0.2721, 0.0972, 0.0381]



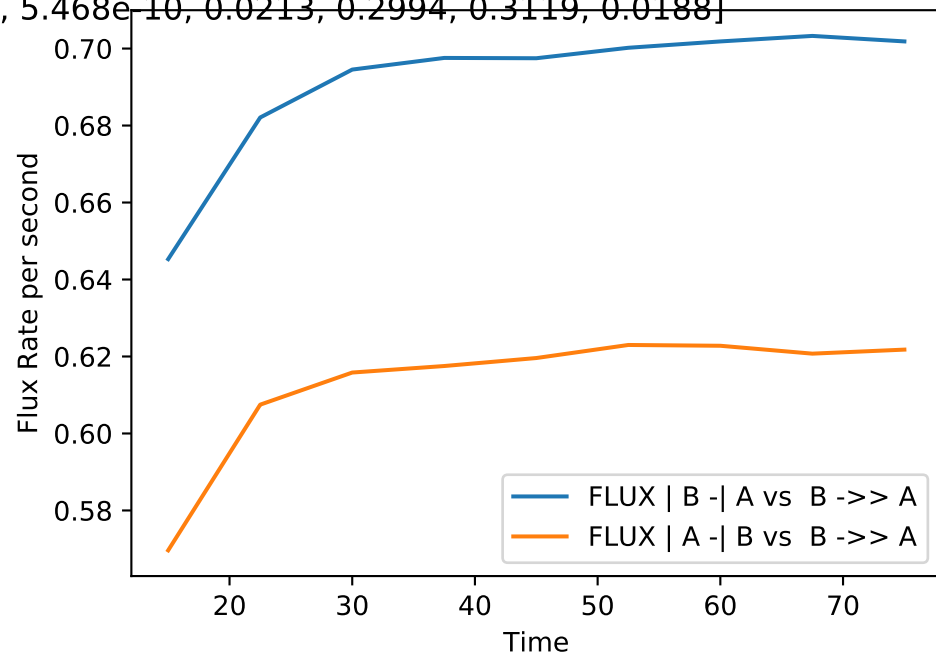
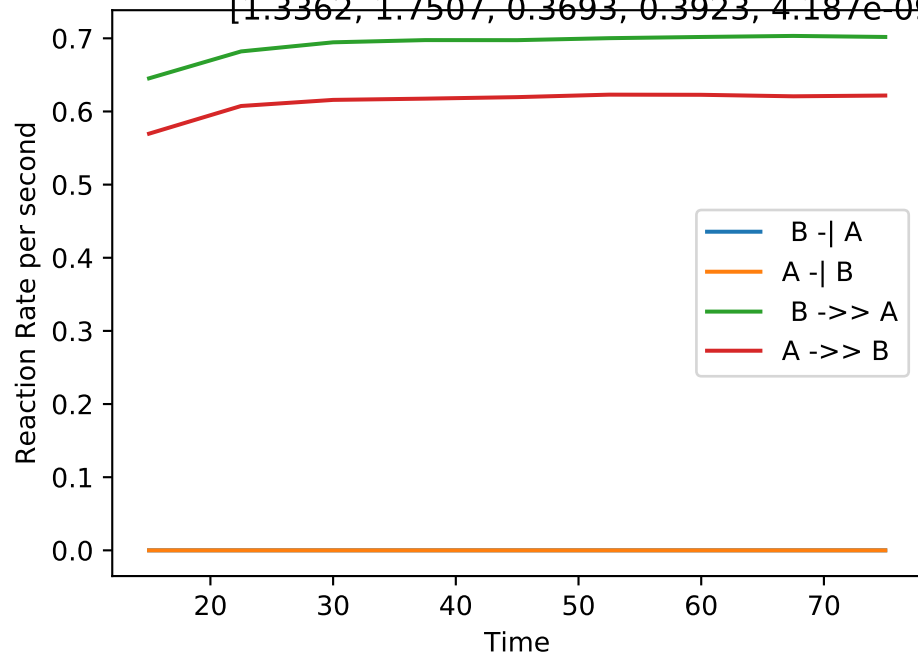
Double_up | MB-LLS Double_up(#163):

[0.0000, 0.0000, 0.1419, 0.1740, 0.001694, 0.001747, 0.0496, 0.1431, 0.1696, 0.0565]



Double_up | MB-LLS Double_up(#164):

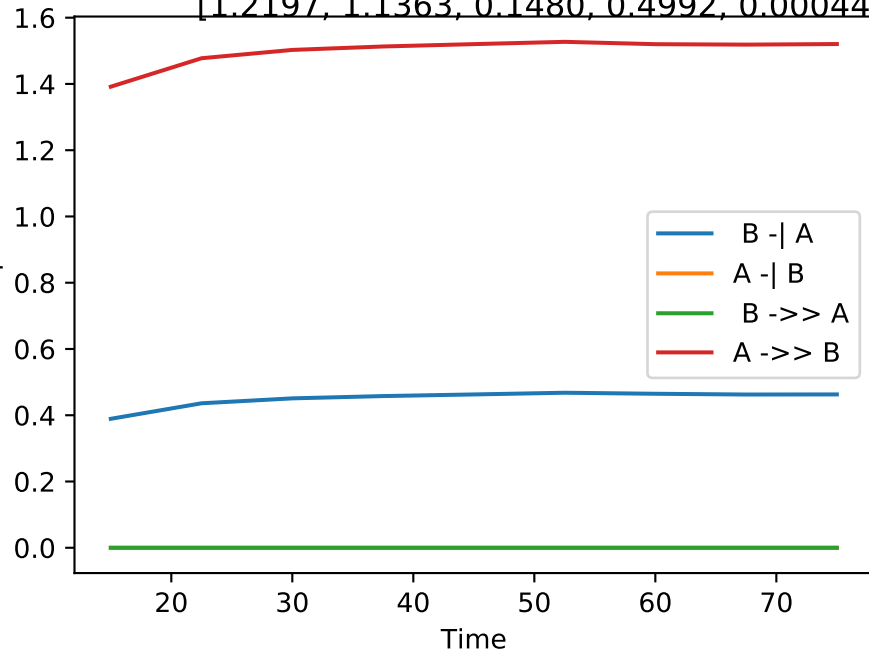
[1.3362, 1.7507, 0.3693, 0.3923, 4.187e-09, 5.468e-10, 0.0213, 0.2994, 0.3119, 0.0188]



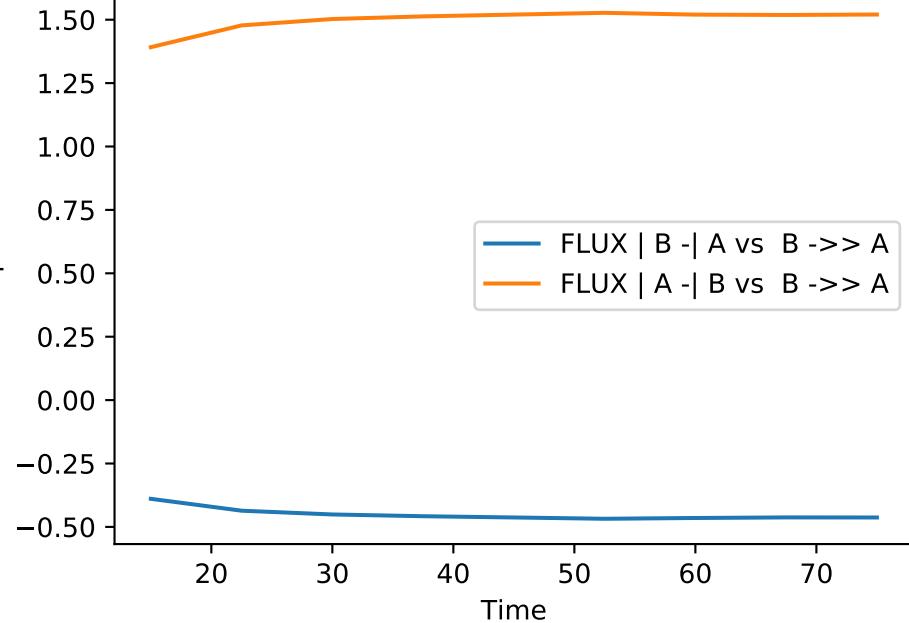
Double_up | MB-LLS Double_up(#165):

[1.2197, 1.1363, 0.1480, 0.4992, 0.0004413, 4.54e-09, 0.0000, 0.1216, 0.4080, 0.0461]

Reaction Rate per second

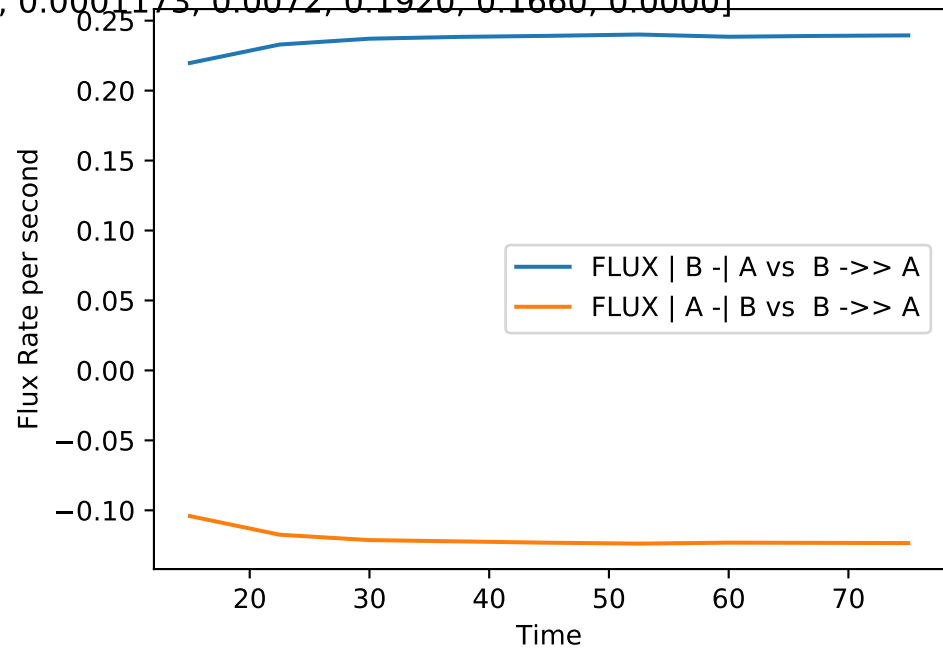
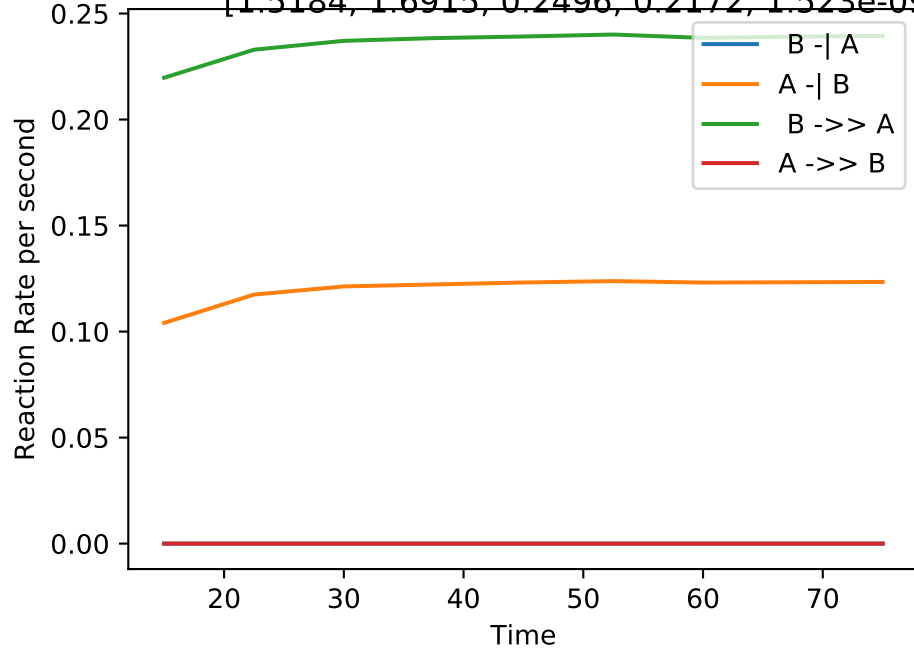


Flux Rate per second



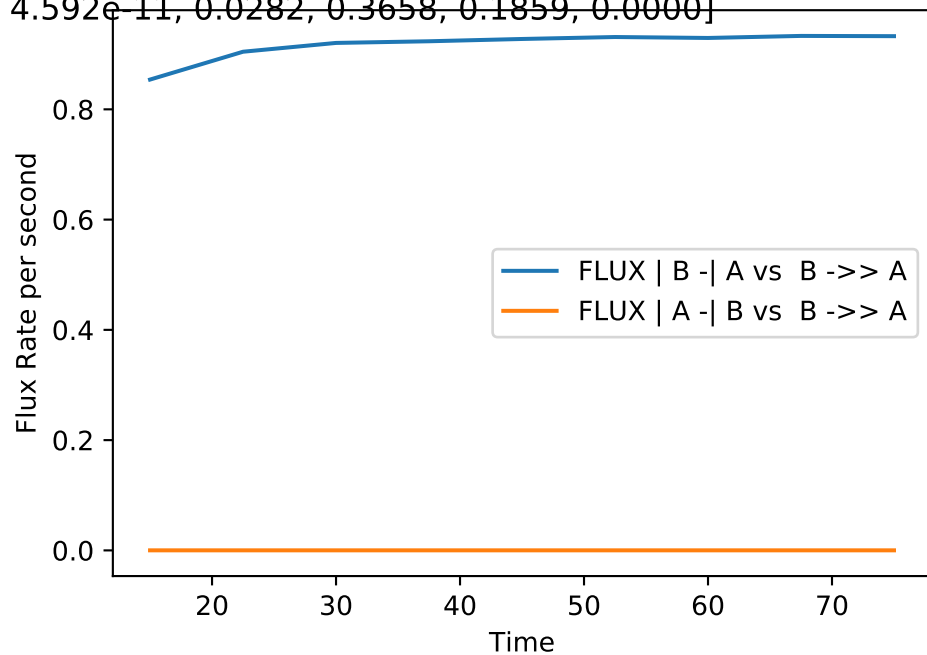
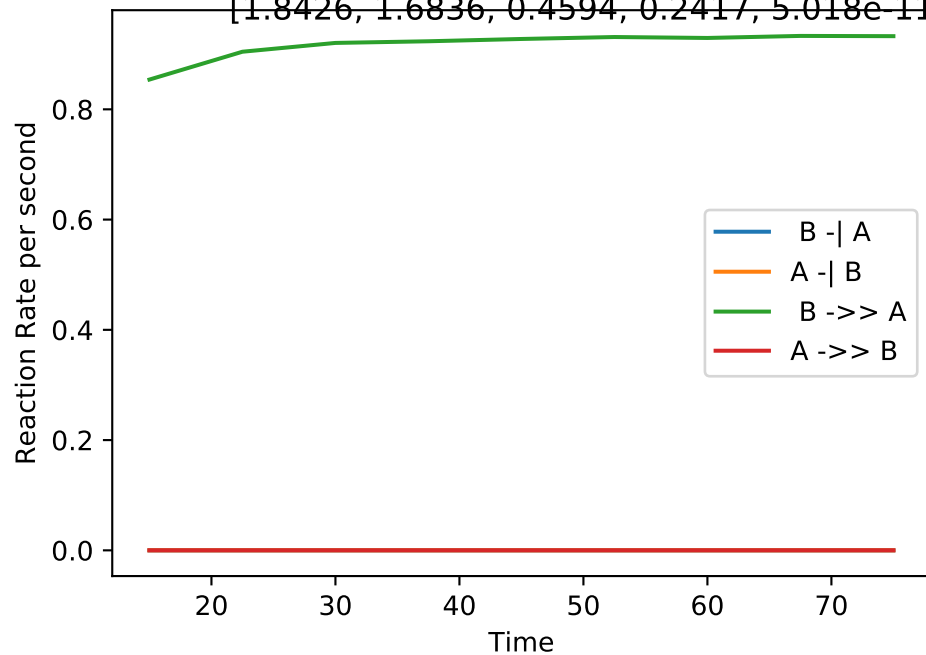
Double_up | MB-LLS Double_up(#166):

[1.5184, 1.6915, 0.2496, 0.2172, 1.523e-09, 0.0001173, 0.0072, 0.1920, 0.1660, 0.0000]



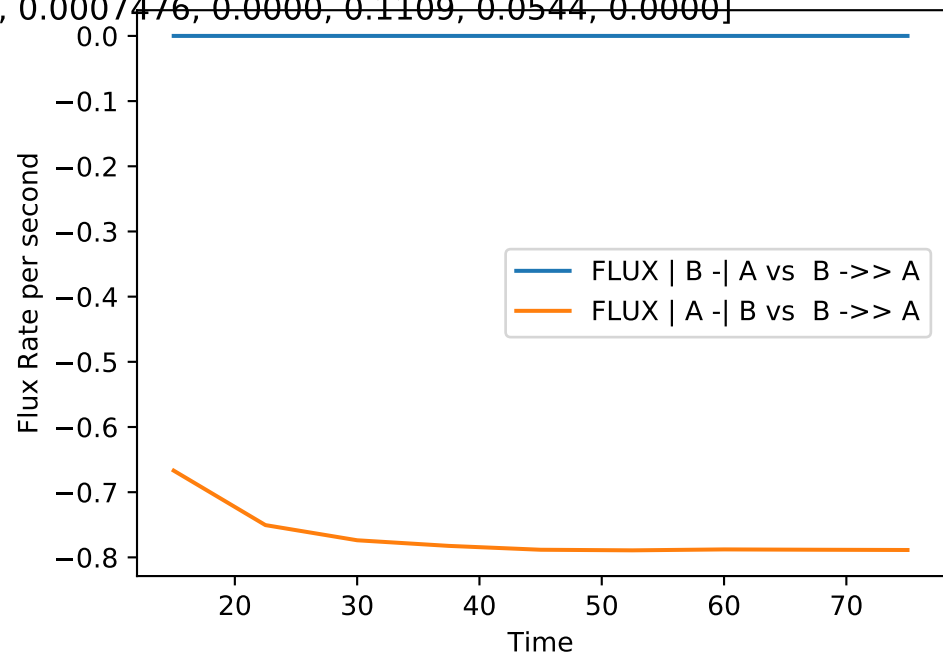
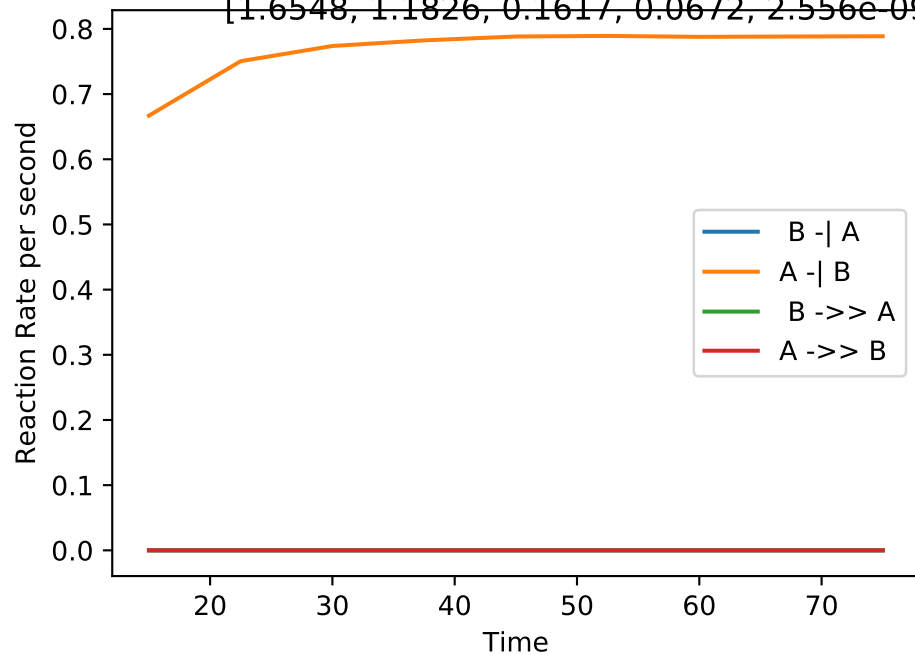
Double_up | MB-LLS Double_up(#167):

[1.8426, 1.6836, 0.4594, 0.2417, 5.018e-11, 4.592e-11, 0.0282, 0.3658, 0.1859, 0.0000]



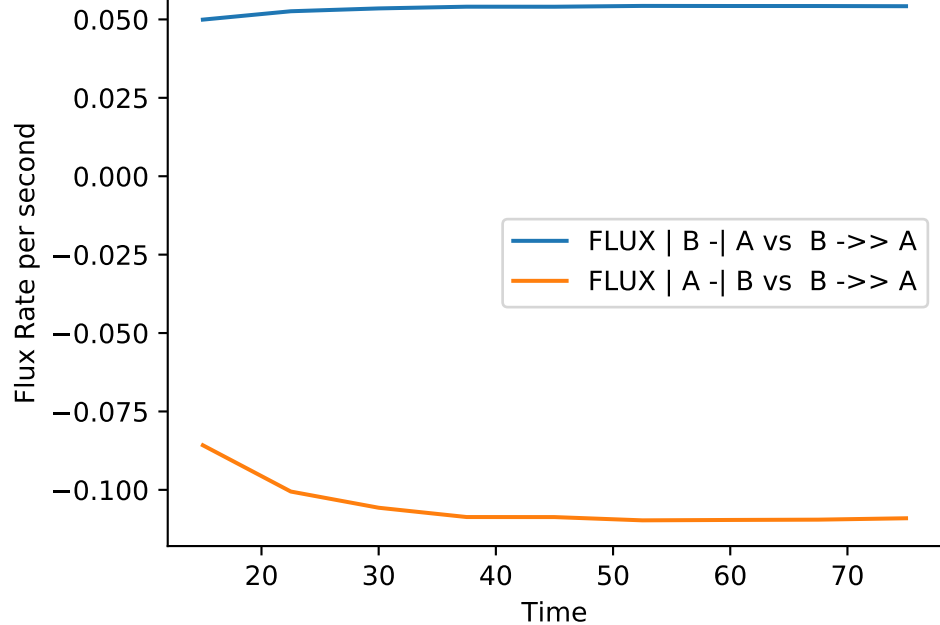
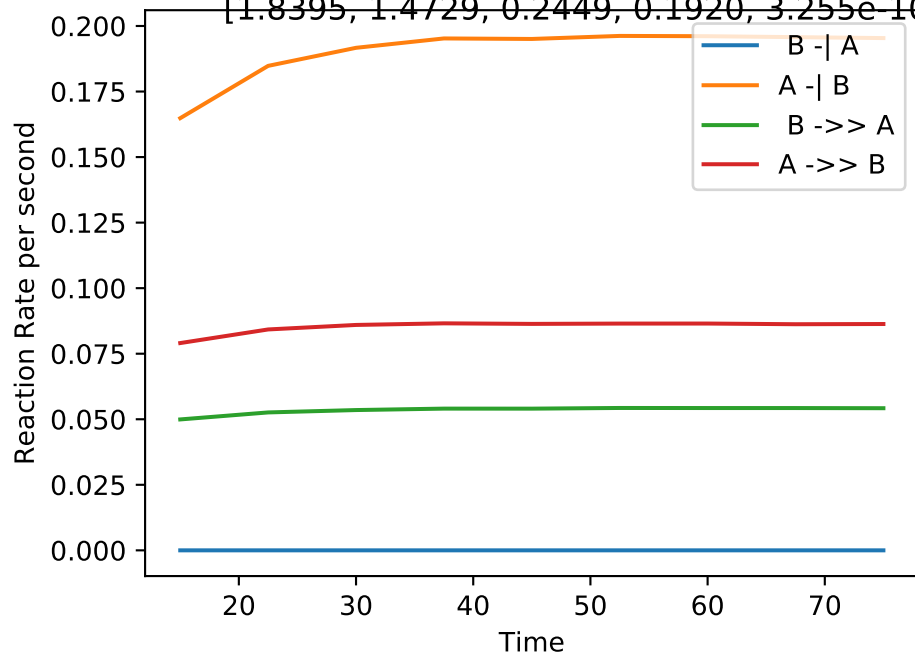
Double_up | MB-LLS Double_up(#168):

[1.6548, 1.1826, 0.1617, 0.0672, 2.556e-09, 0.0007476, 0.0000, 0.1109, 0.0544, 0.0000]



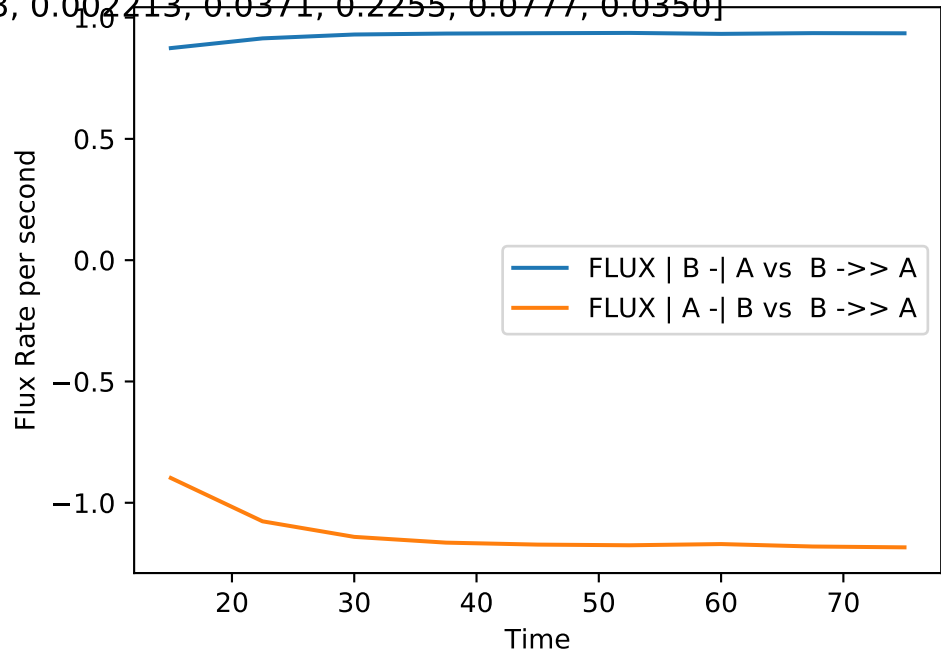
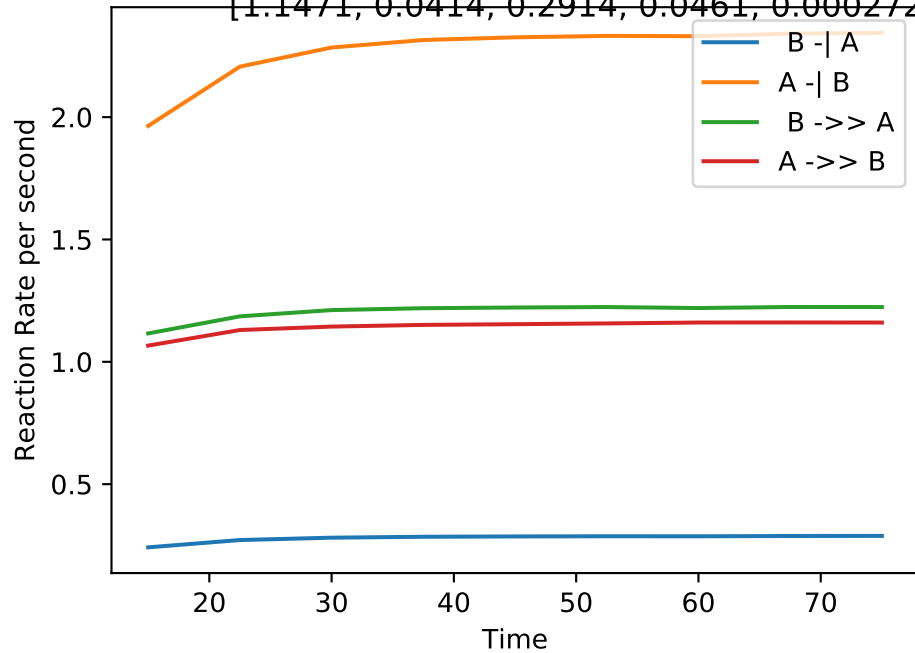
Double_up | MB-LLS Double_up(#169):

[1.8395, 1.4729, 0.2449, 0.1920, 3.255e-10, 0.0001861, 0.0016, 0.1835, 0.1476, 0.0026]



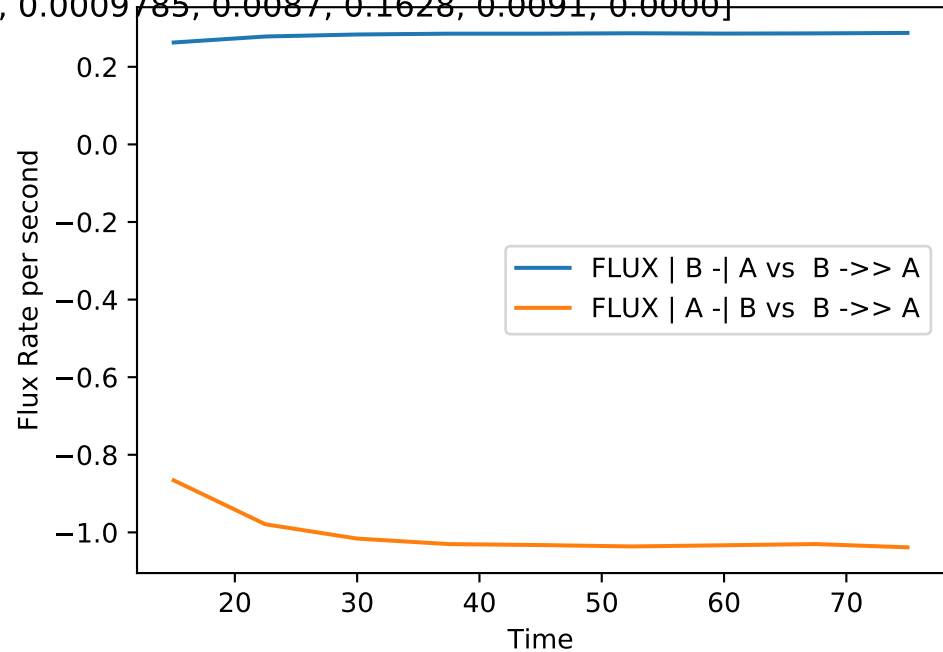
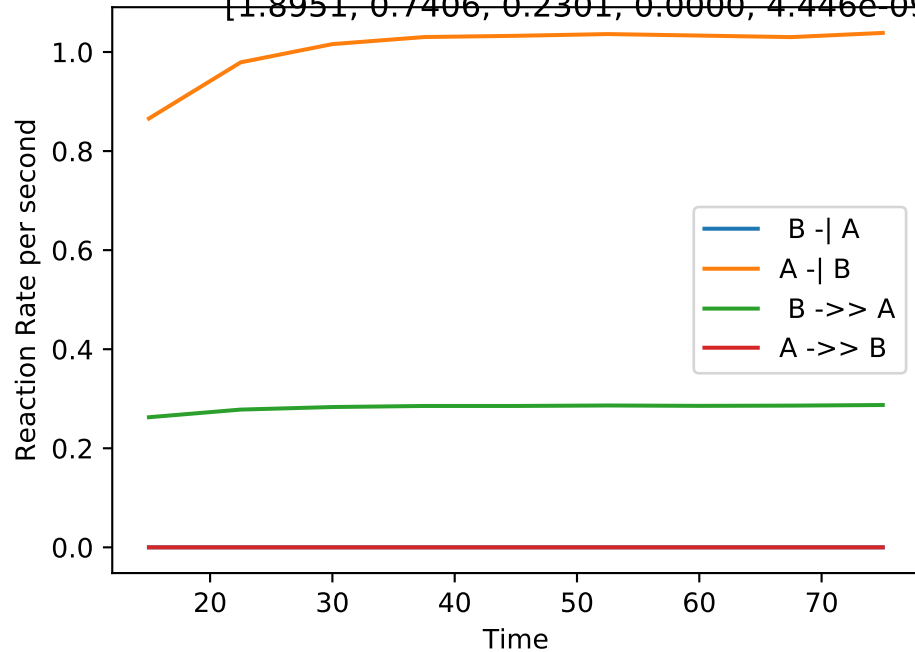
Double_up | MB-LLS Double_up(#170):

[1.1471, 0.0414, 0.2914, 0.0461, 0.0002723, 0.002213, 0.0371, 0.2255, 0.0777, 0.0350]



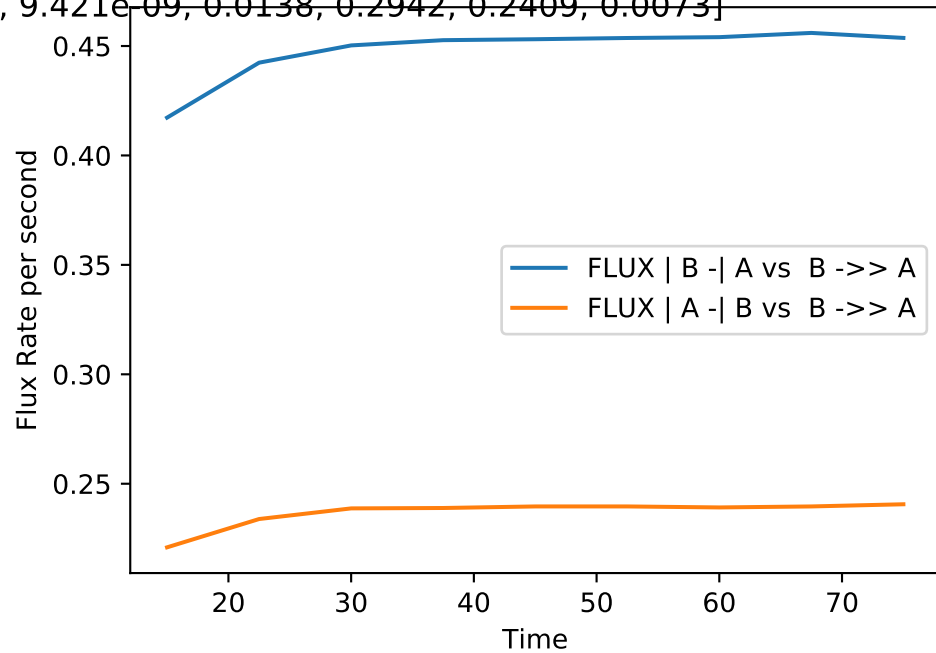
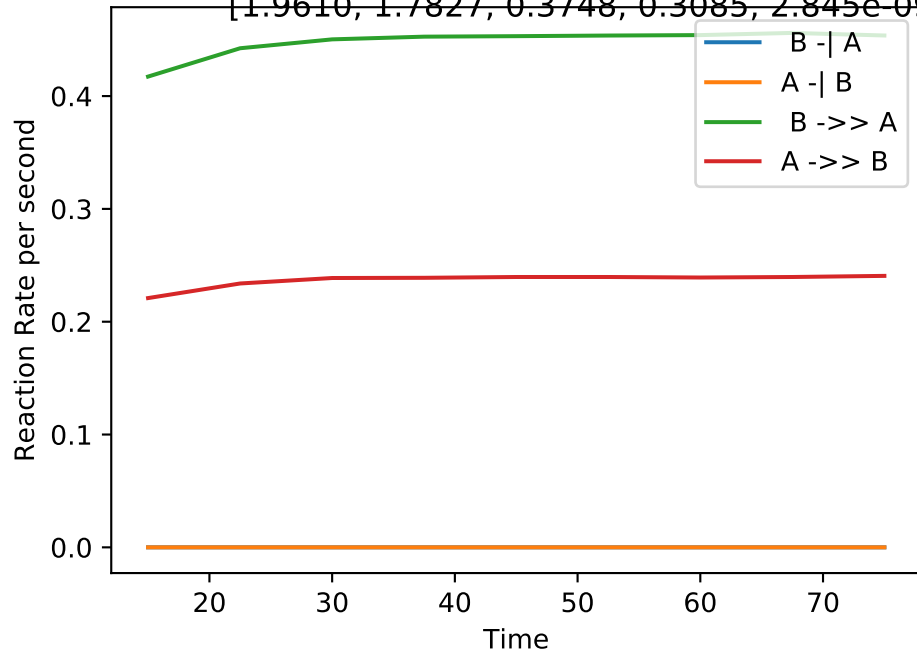
Double_up | MB-LLS Double_up(#171):

[1.8951, 0.7406, 0.2301, 0.0000, 4.446e-09, 0.0009785, 0.0087, 0.1628, 0.0091, 0.0000]



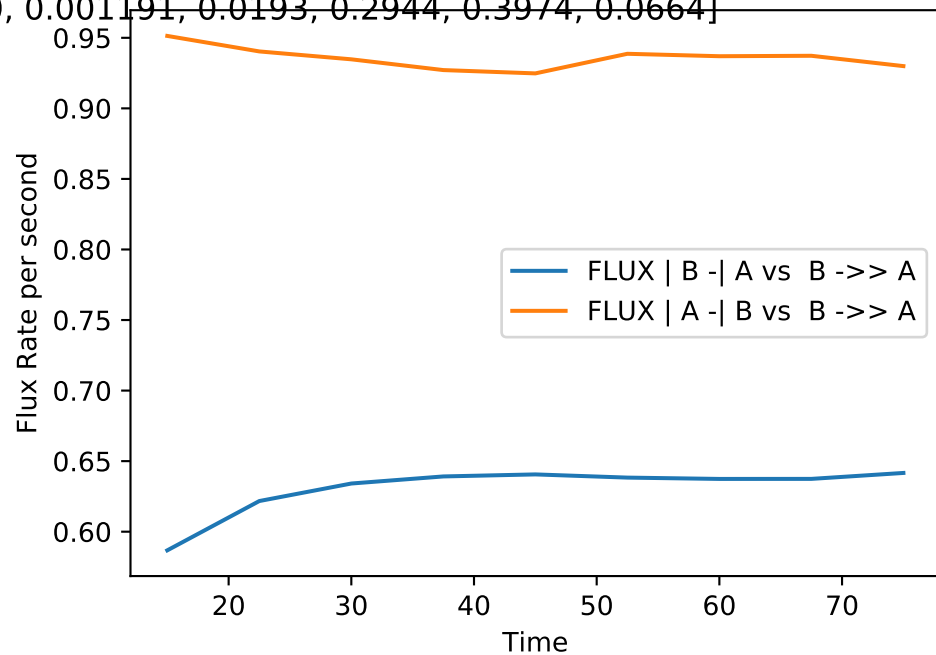
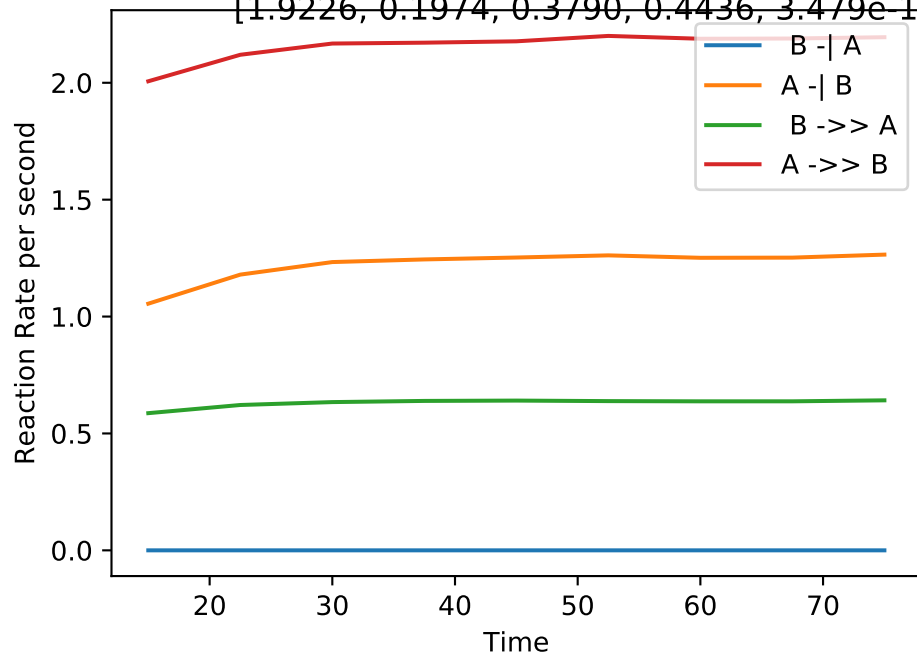
Double_up | MB-LLS Double_up(#172):

[1.9610, 1.7827, 0.3748, 0.3085, 2.845e-09, 9.421e-09, 0.0138, 0.2942, 0.2409, 0.0073]



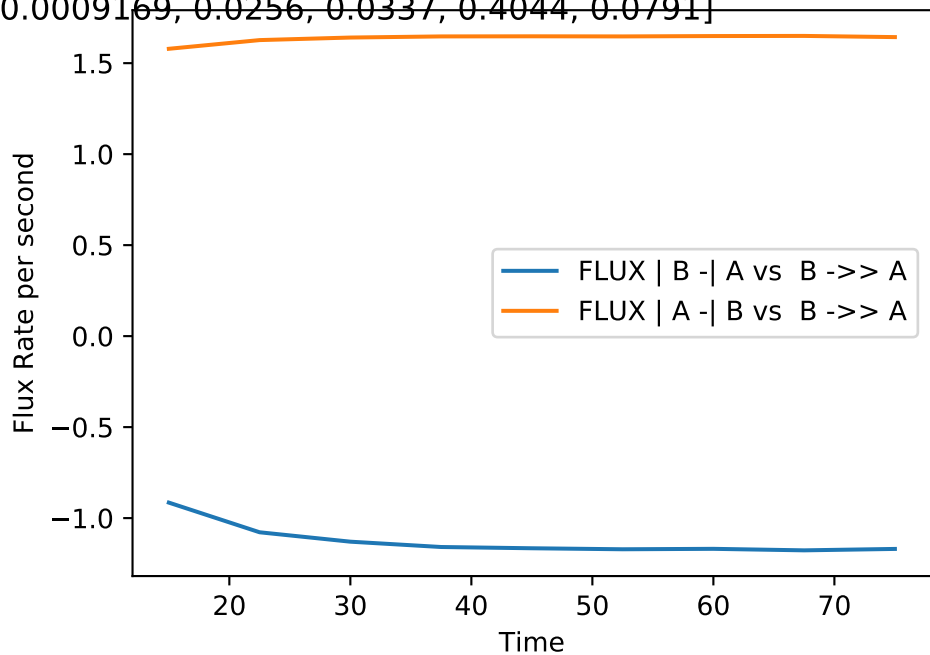
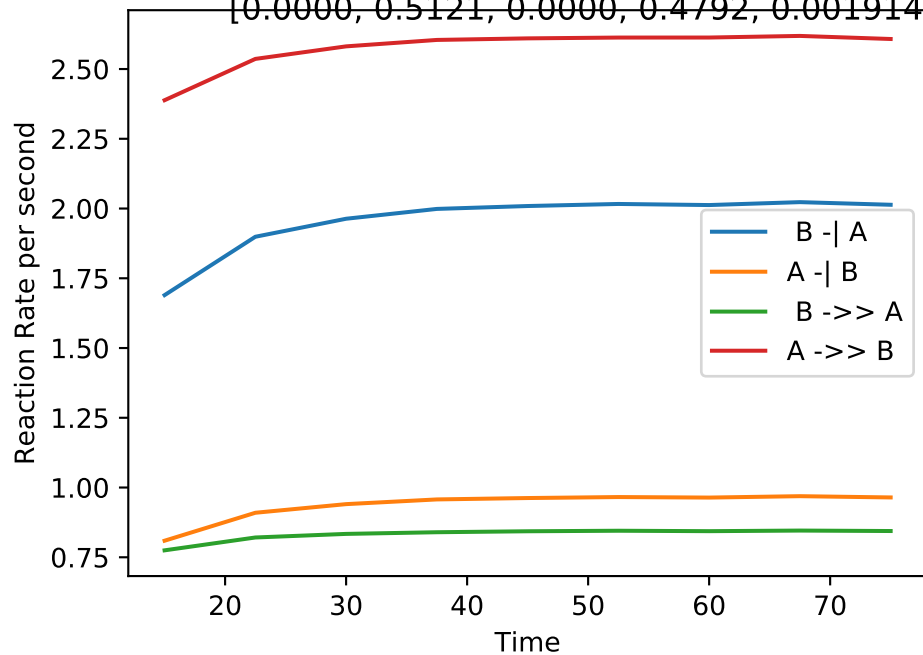
Double_up | MB-LLS Double_up(#173):

[1.9226, 0.1974, 0.3790, 0.4436, 3.479e-10, 0.001191, 0.0193, 0.2944, 0.3974, 0.0664]



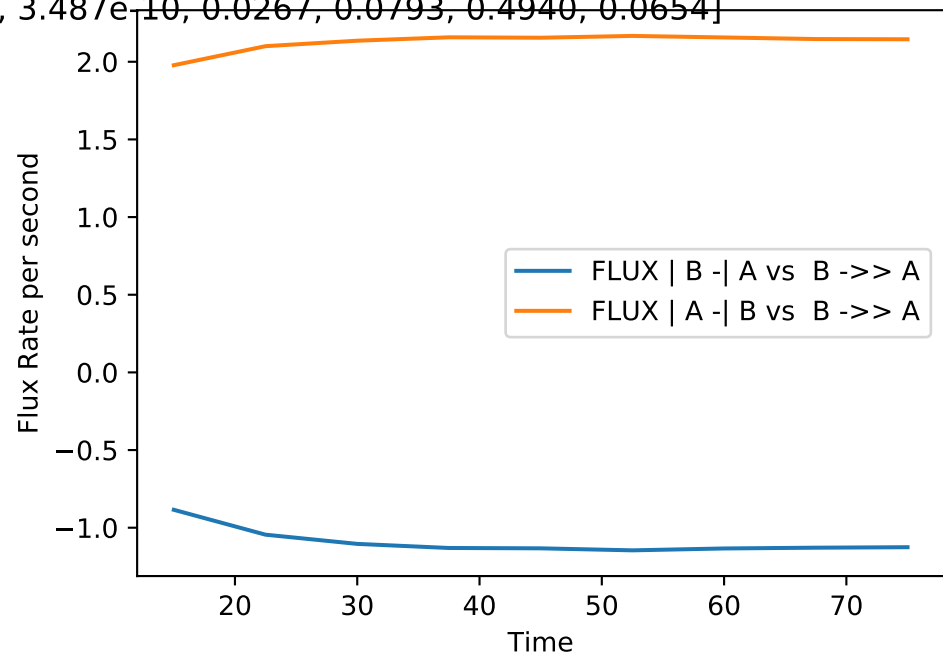
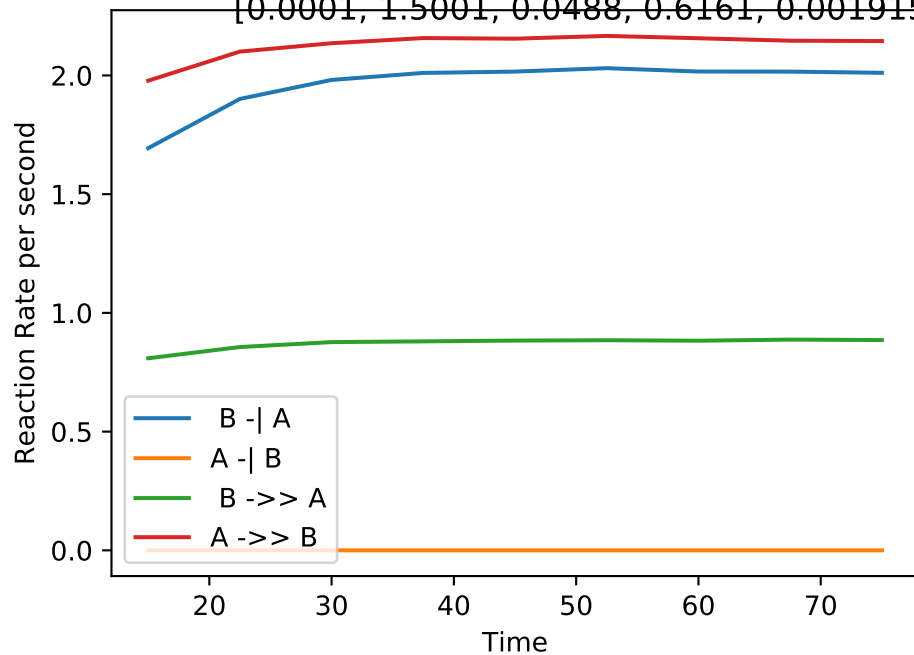
Double_up | MB-LLS Double_up(#174):

[0.0000, 0.5121, 0.0000, 0.4792, 0.001914, 0.0009169, 0.0256, 0.0337, 0.4044, 0.0791]



Double_up | MB-LLS Double_up(#175):

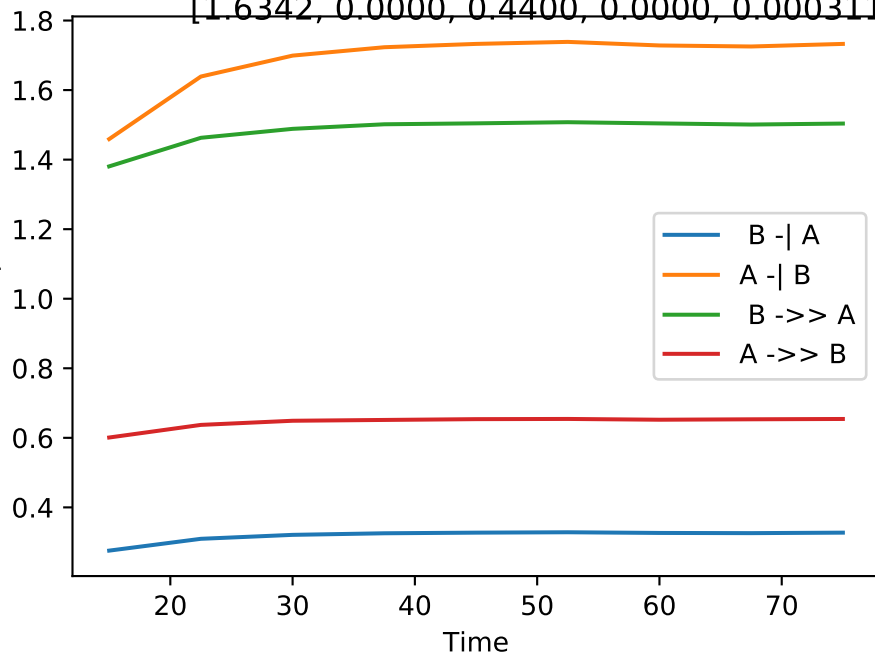
[0.0001, 1.5001, 0.0488, 0.6161, 0.001915, 3.487e-10, 0.0267, 0.0793, 0.4940, 0.0654]



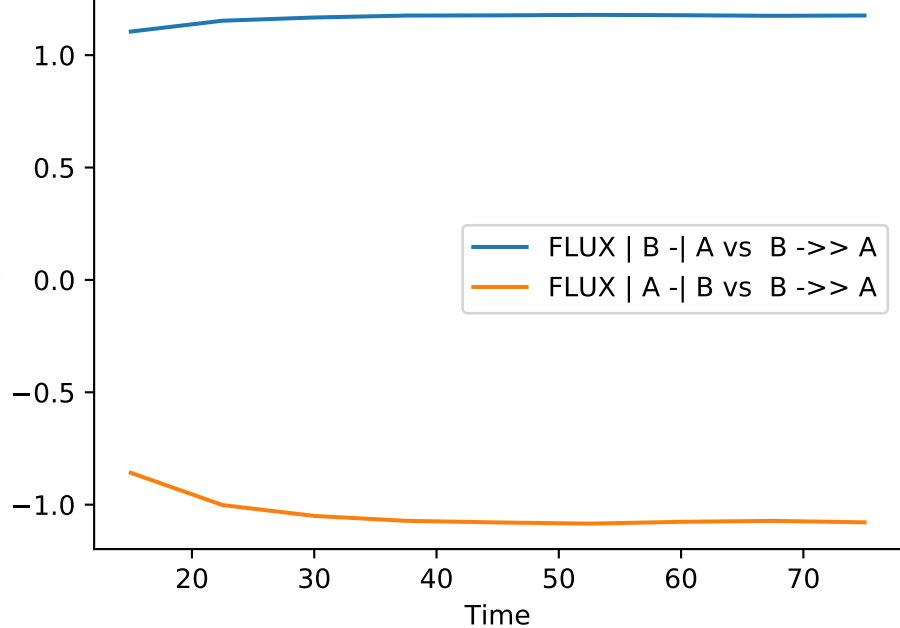
Double_up | MB-LLS Double_up(#176):

[1.6342, 0.0000, 0.4400, 0.0000, 0.0003116, 0.001649, 0.0456, 0.3478, 0.0313, 0.0198]

Reaction Rate per second

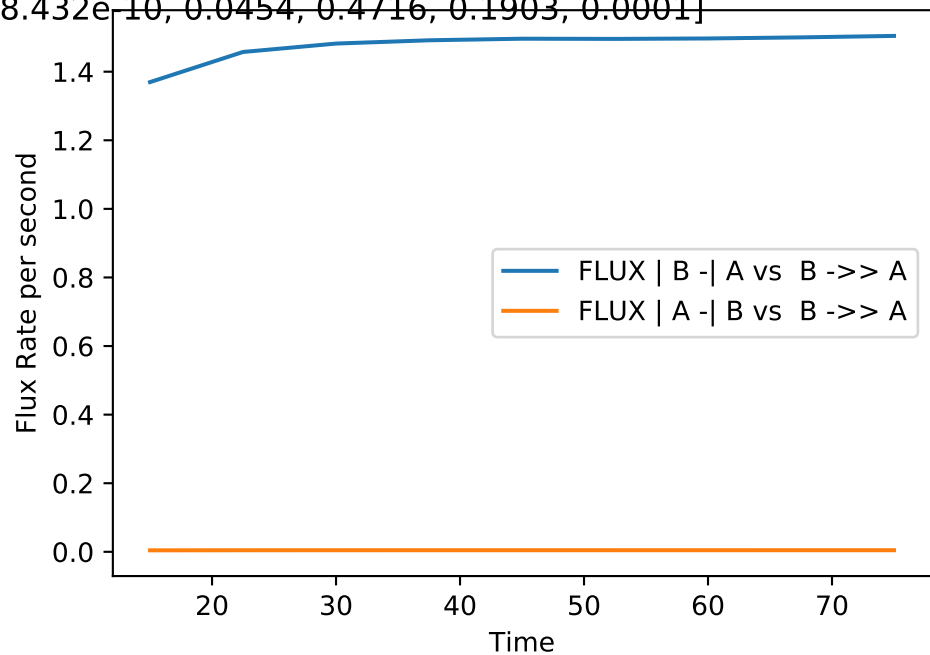
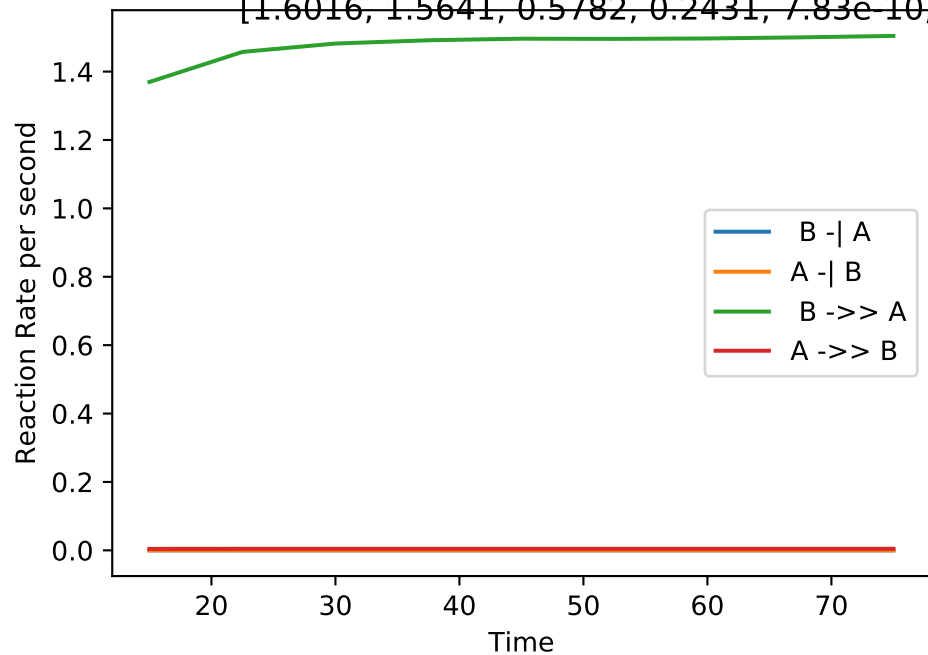


Flux Rate per second



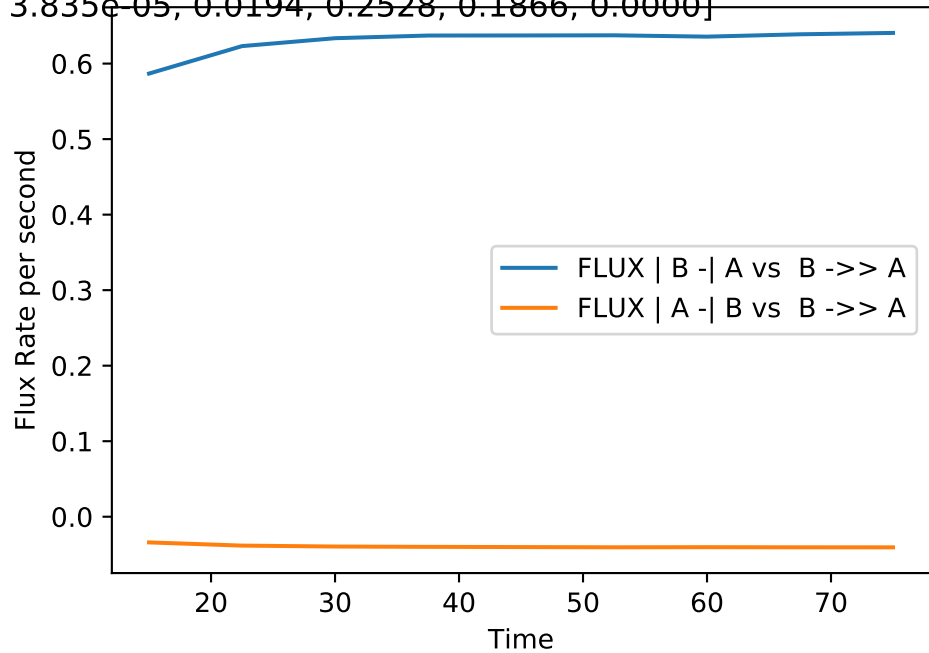
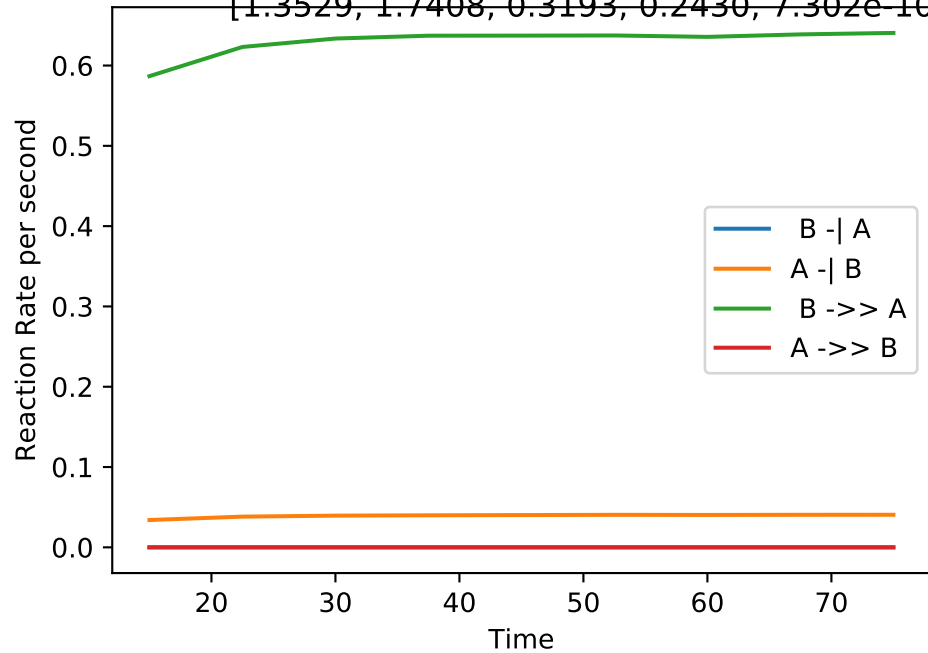
Double_up | MB-LLS Double_up(#177):

[1.6016, 1.5641, 0.5782, 0.2431, 7.83e-10, 8.432e-10, 0.0454, 0.4716, 0.1903, 0.0001]



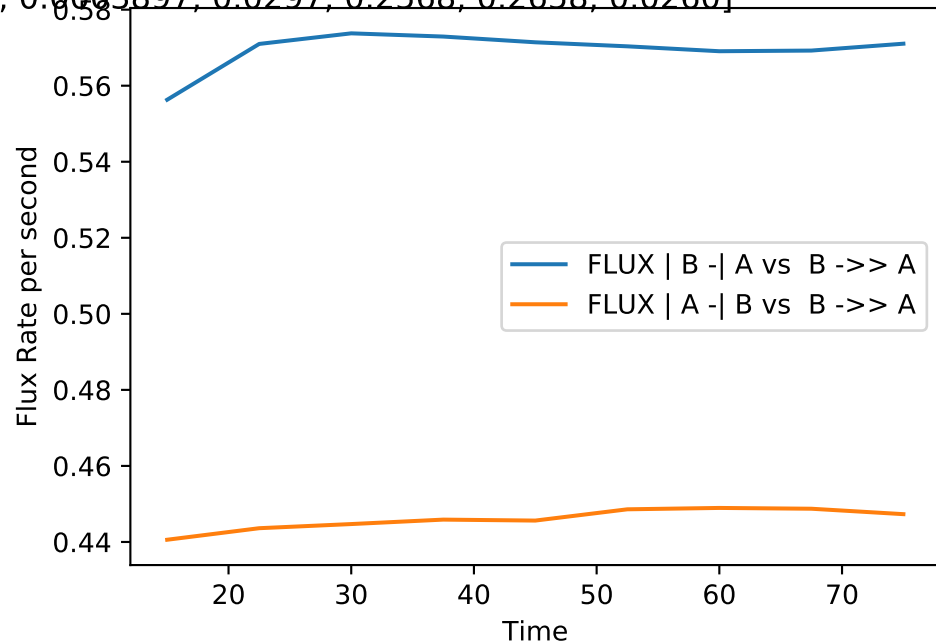
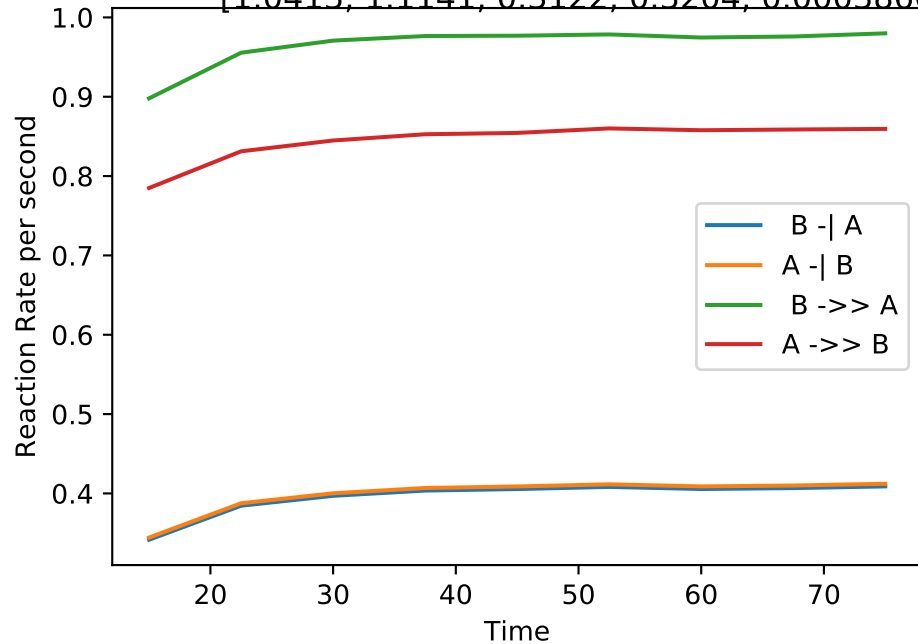
Double_up | MB-LLS Double_up(#178):

[1.3529, 1.7408, 0.3193, 0.2430, 7.302e-10, 3.835e-05, 0.0194, 0.2528, 0.1866, 0.0000]



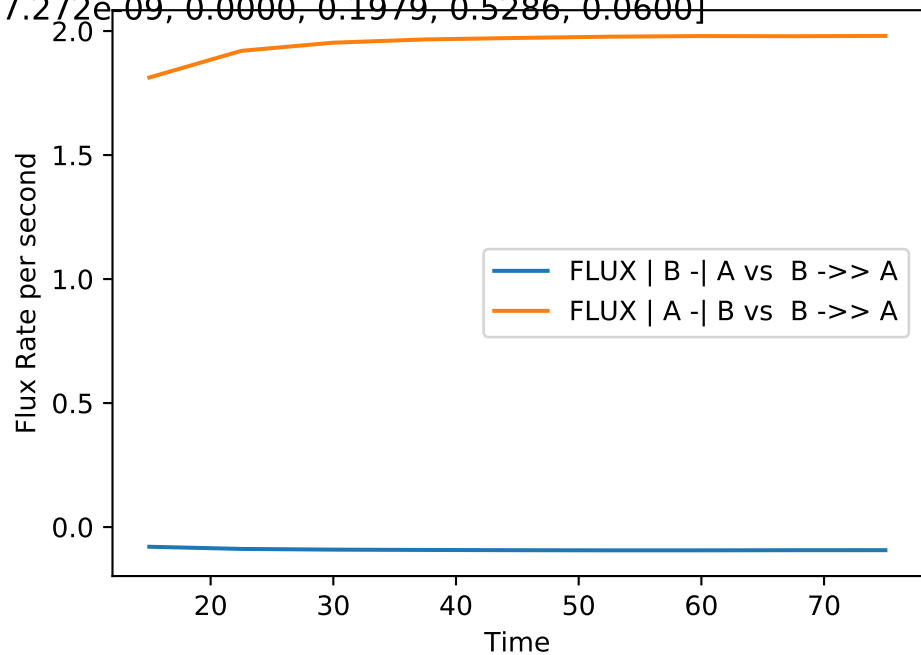
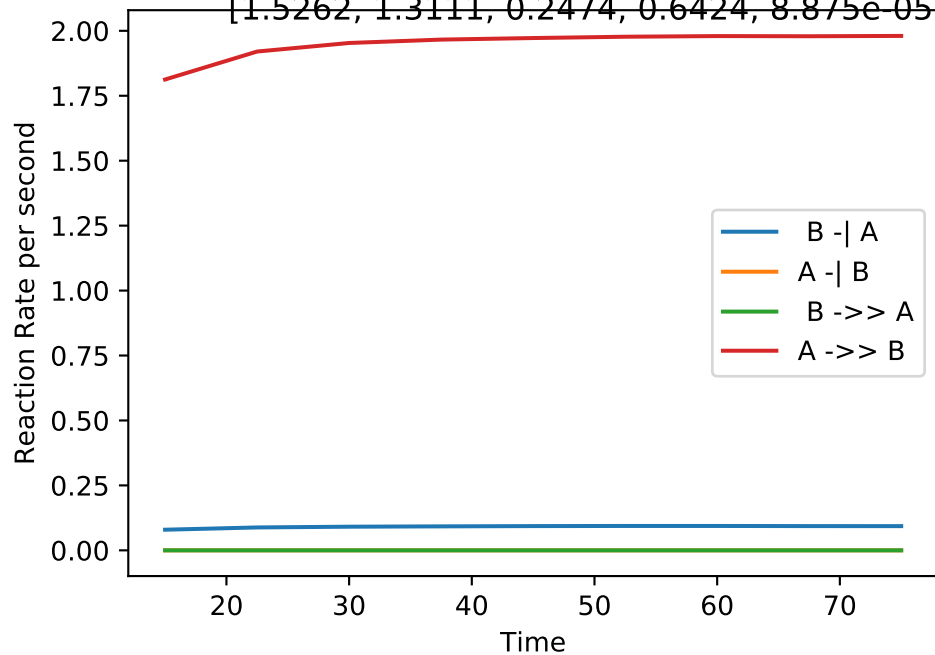
Double_up | MB-LLS Double_up(#179):

[1.0413, 1.1141, 0.3122, 0.3204, 0.0003866, 0.0003897, 0.0297, 0.2568, 0.2658, 0.0260]



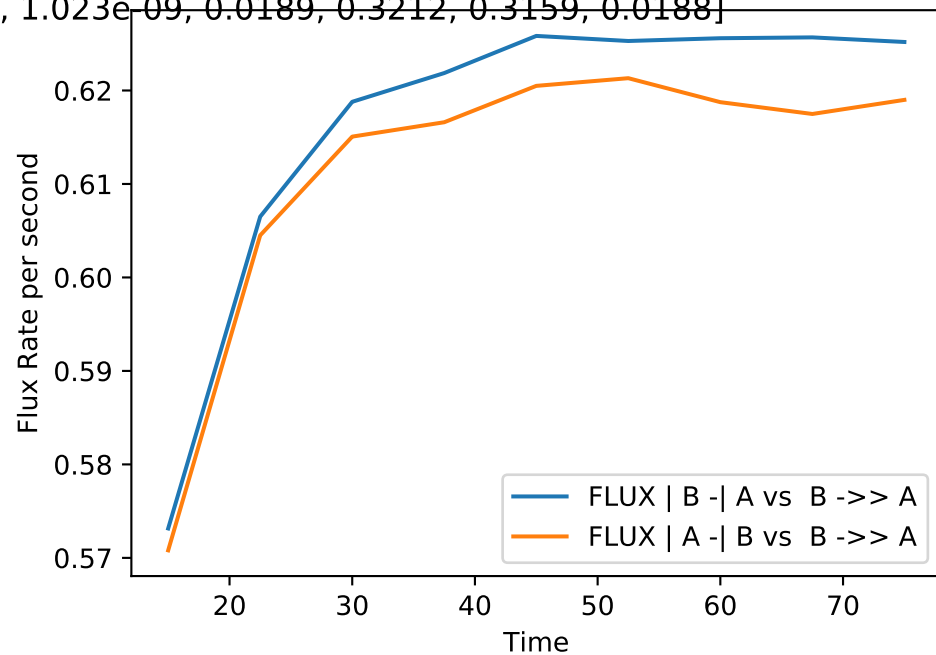
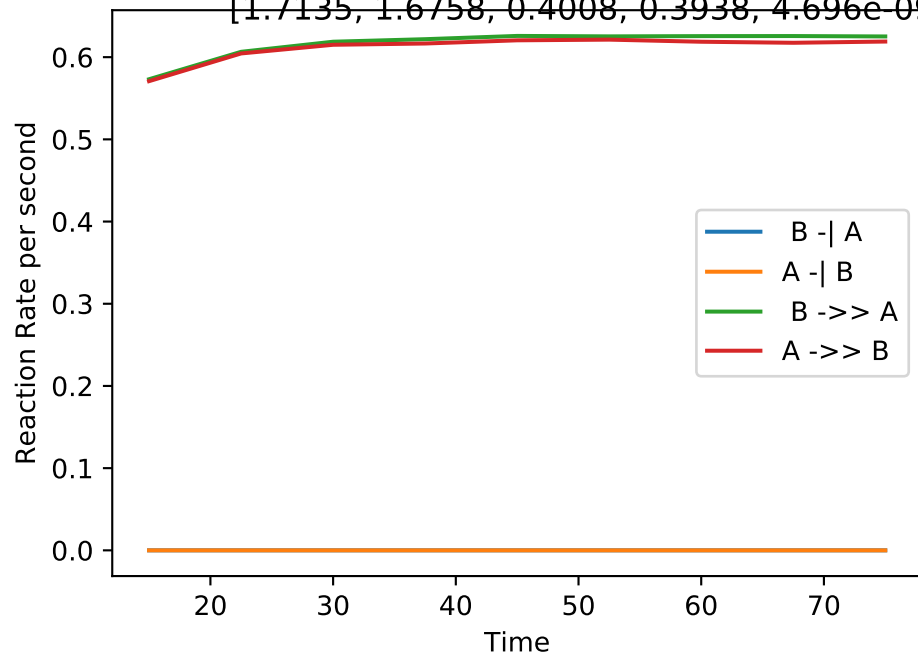
Double_up | MB-LLS Double_up(#180):

[1.5262, 1.3111, 0.2474, 0.6424, 8.875e-05, 7.272e-09, 0.0000, 0.1979, 0.5286, 0.0600]



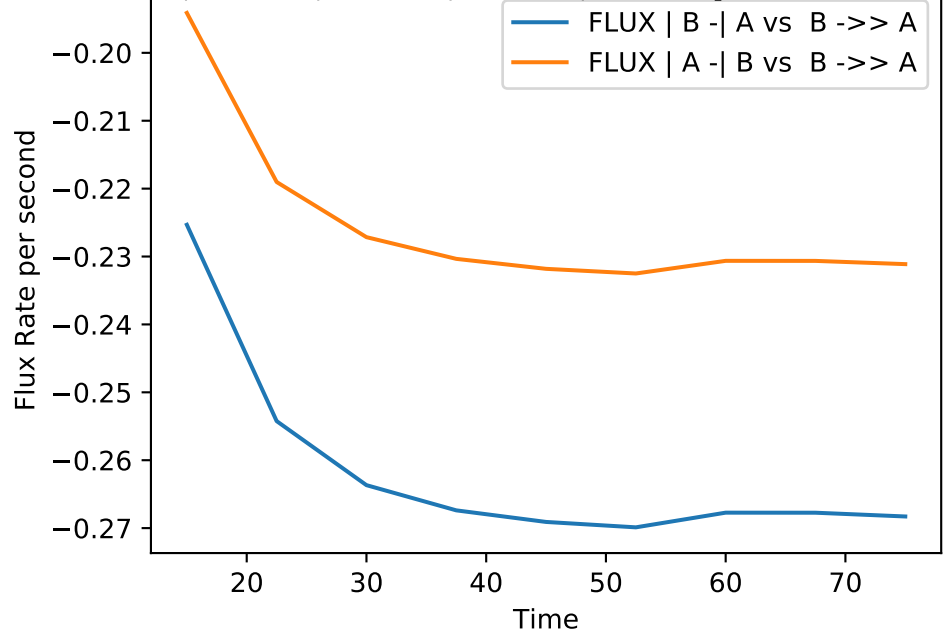
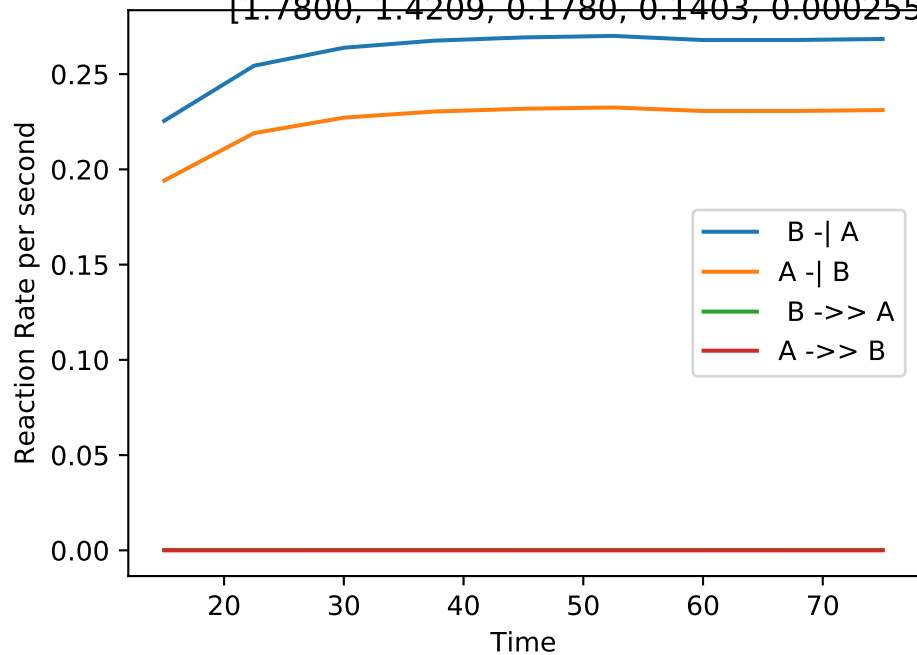
Double_up | MB-LLS Double_up(#181):

[1.7135, 1.6758, 0.4008, 0.3938, 4.696e-09, 1.023e-09, 0.0189, 0.3212, 0.3159, 0.0188]



Double_up | MB-LLS Double_up(#182):

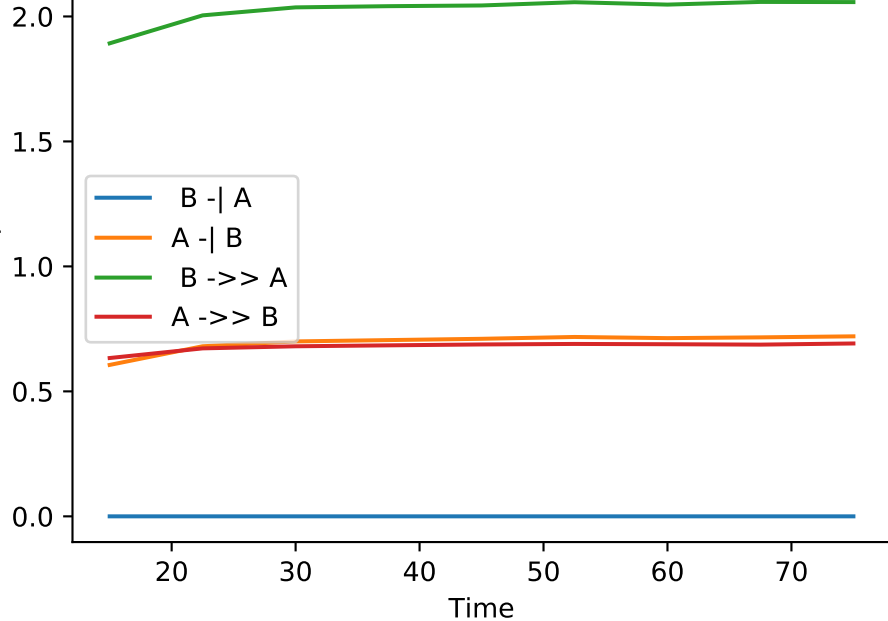
[1.7800, 1.4209, 0.1780, 0.1403, 0.000255, 0.0002196, 0.0000, 0.1301, 0.1027, 0.0000]



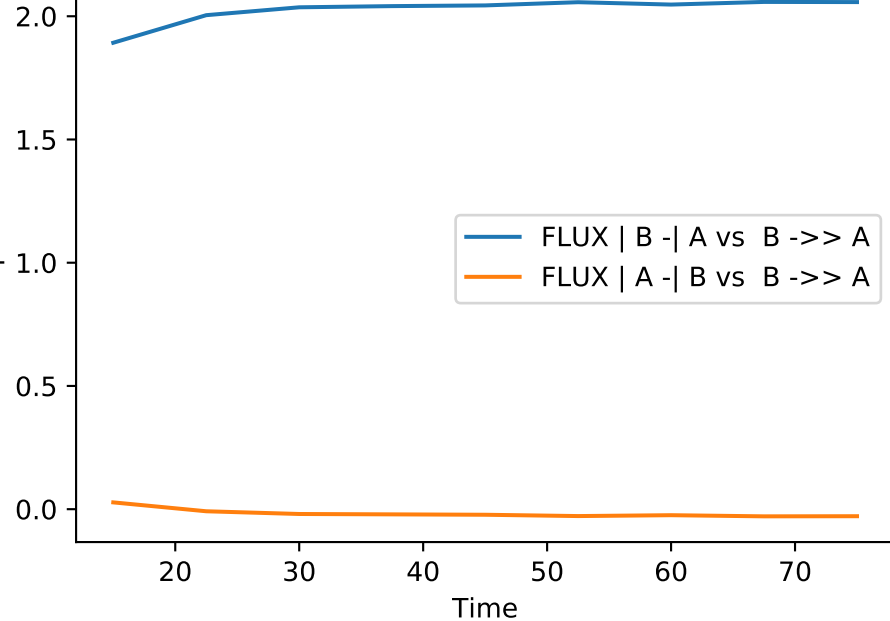
Double_up | MB-LLS Double_up(#183):

[1.0720, 1.0621, 0.6050, 0.2902, 1.139e-09, 0.0006788, 0.0622, 0.4970, 0.2506, 0.0209]

Reaction Rate per second

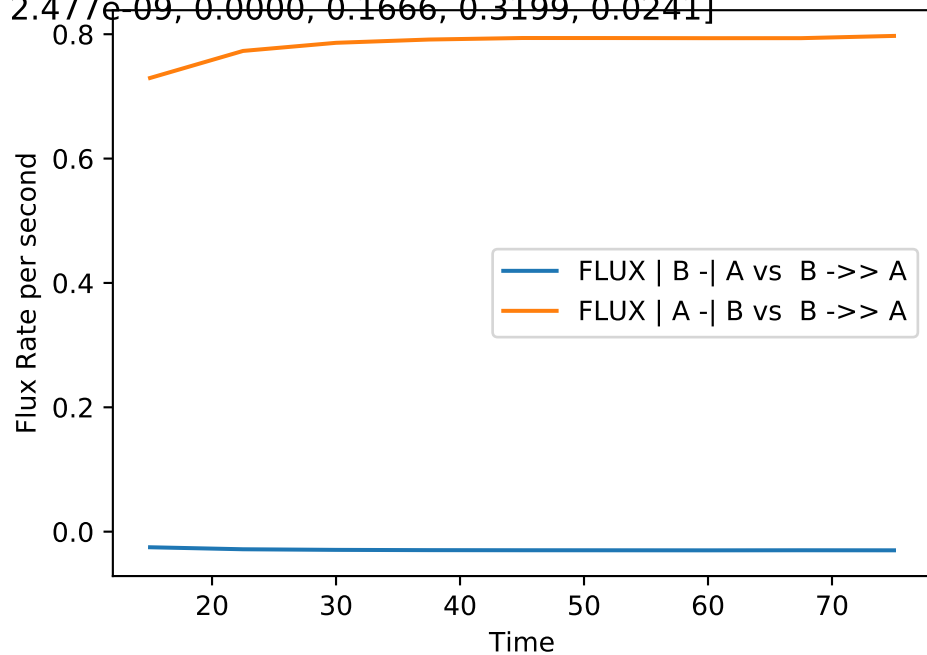
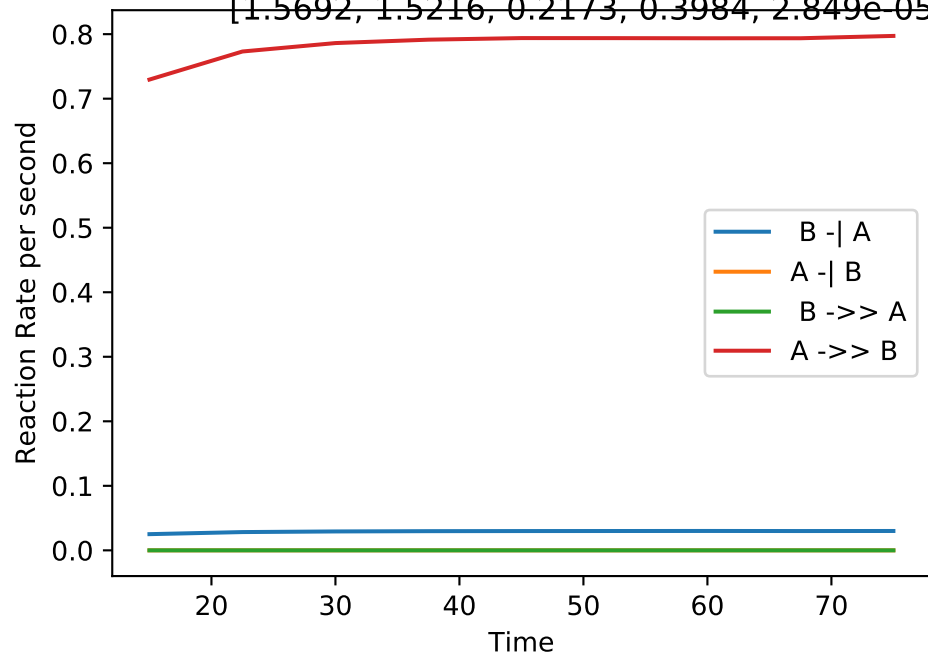


Flux Rate per second



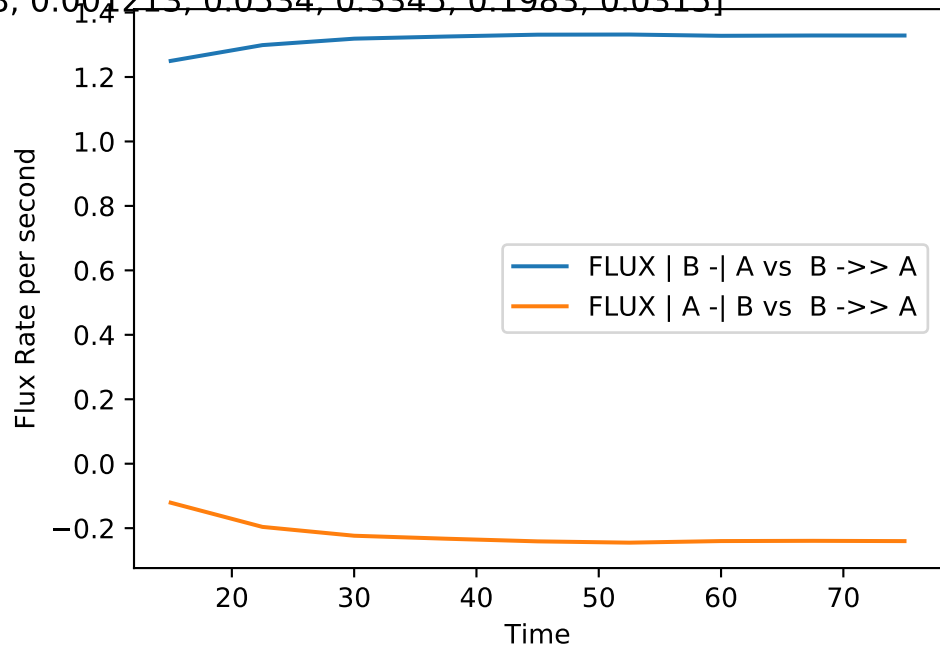
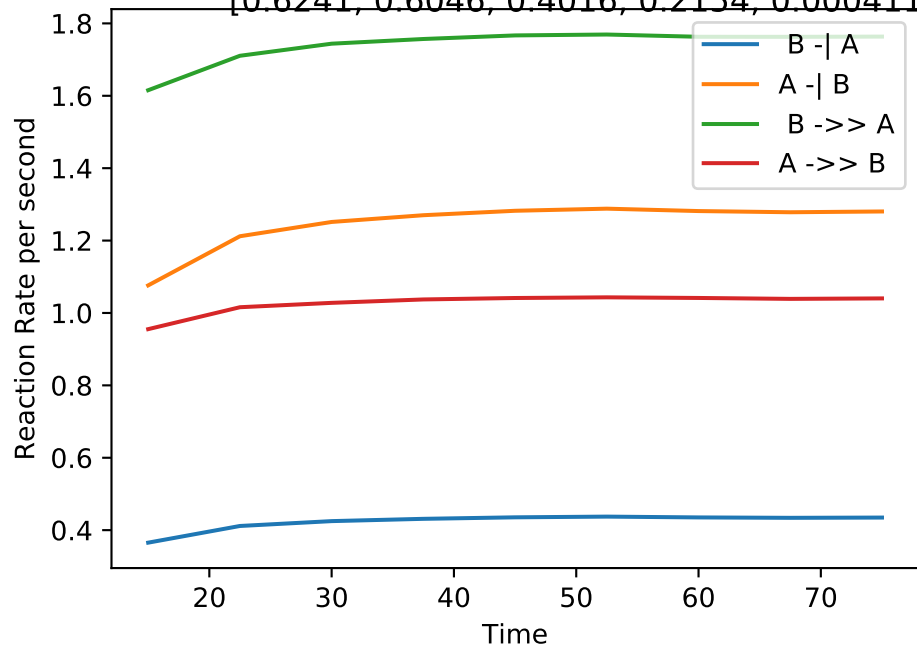
Double_up | MB-LLS Double_up(#184):

[1.5692, 1.5216, 0.2173, 0.3984, 2.849e-05, 2.477e-09, 0.0000, 0.1666, 0.3199, 0.0241]



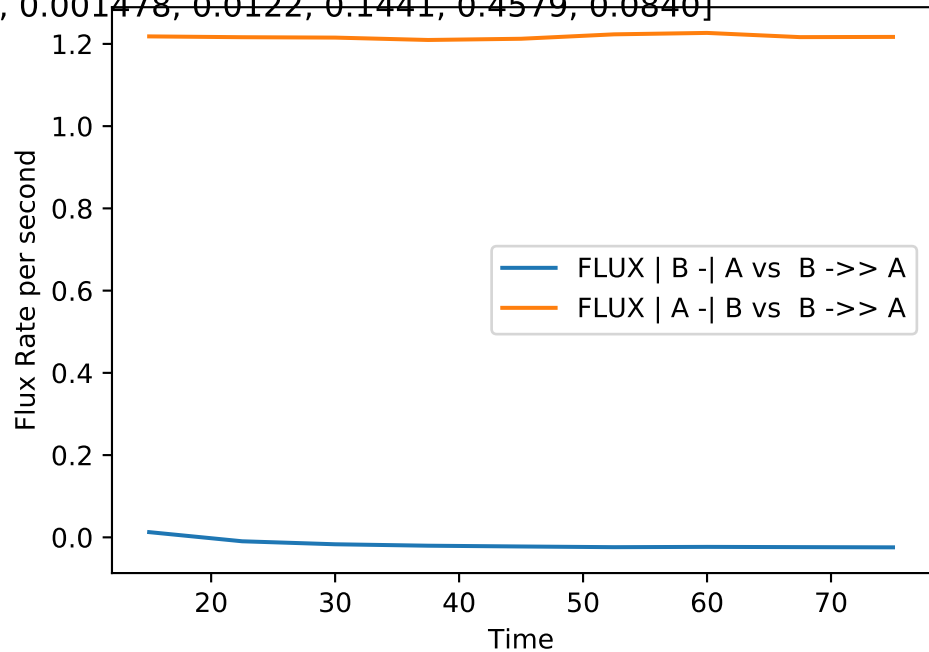
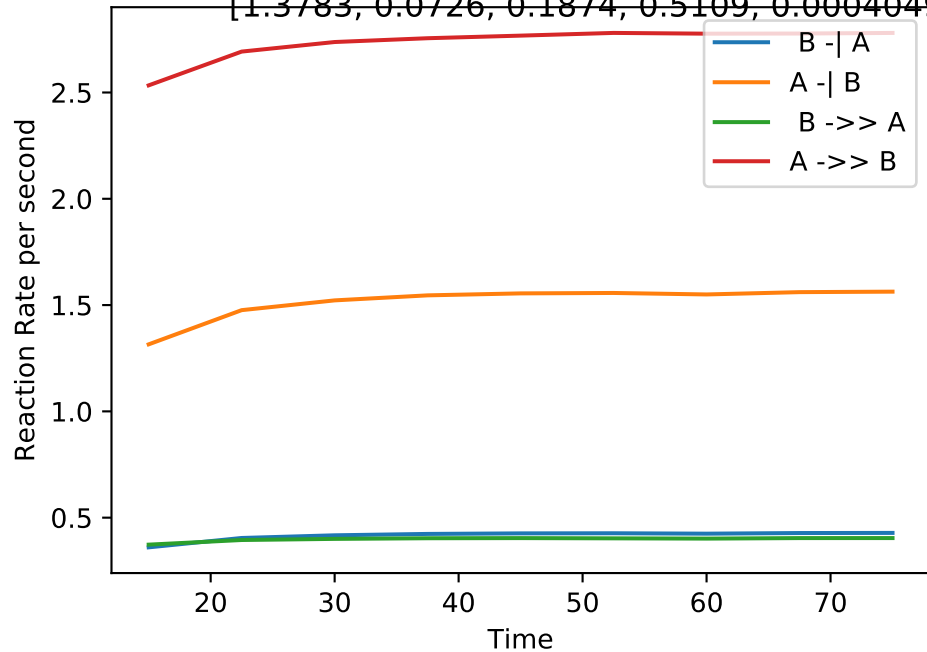
Double_up | MB-LLS Double_up(#185):

[0.6241, 0.6046, 0.4016, 0.2154, 0.0004118, 0.001213, 0.0534, 0.3345, 0.1983, 0.0315]



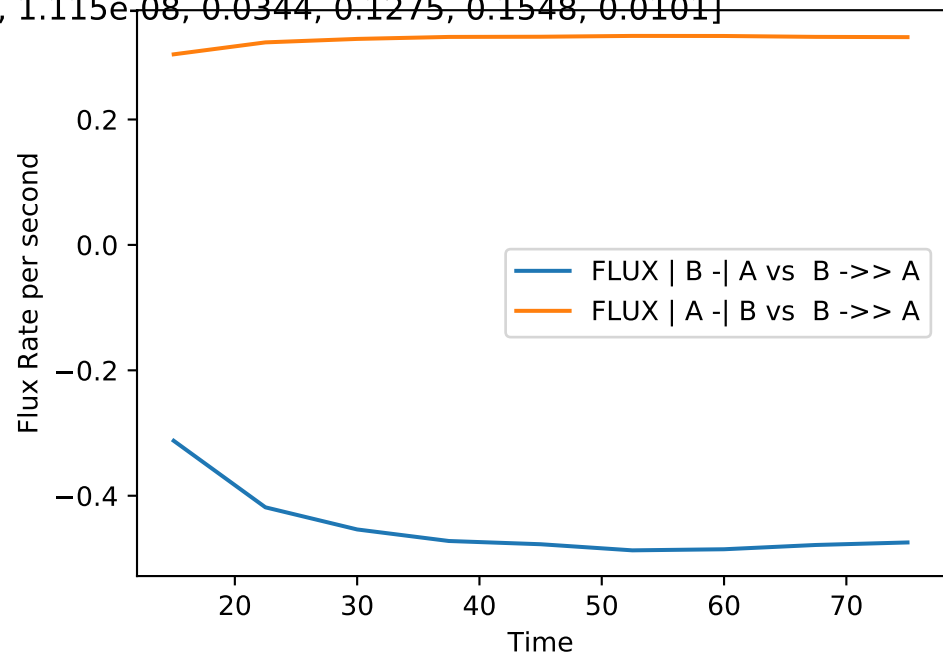
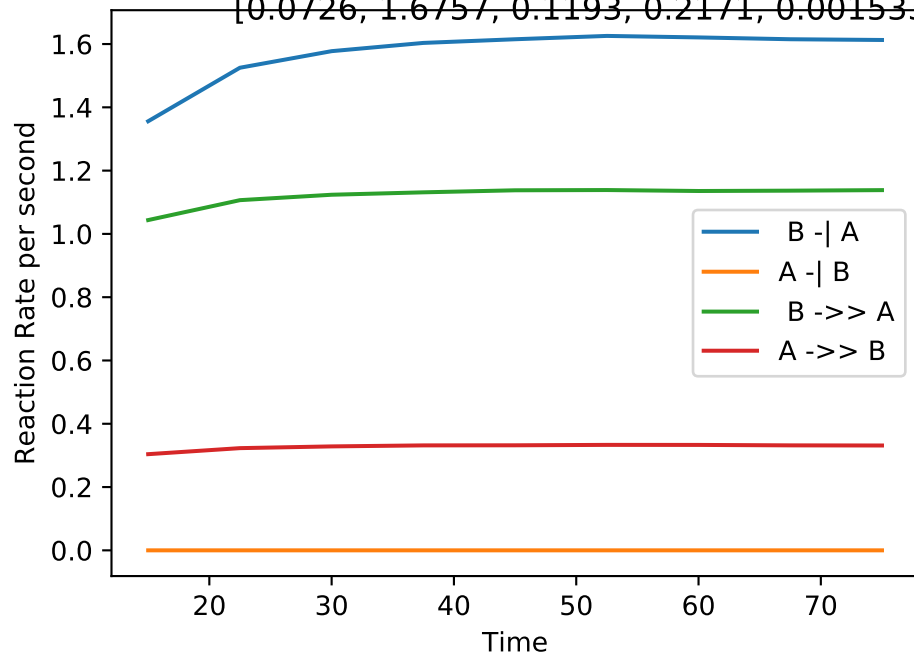
Double_up | MB-LLS Double_up(#186):

[1.3783, 0.0726, 0.1874, 0.5109, 0.0004049, 0.001478, 0.0122, 0.1441, 0.4579, 0.0840]



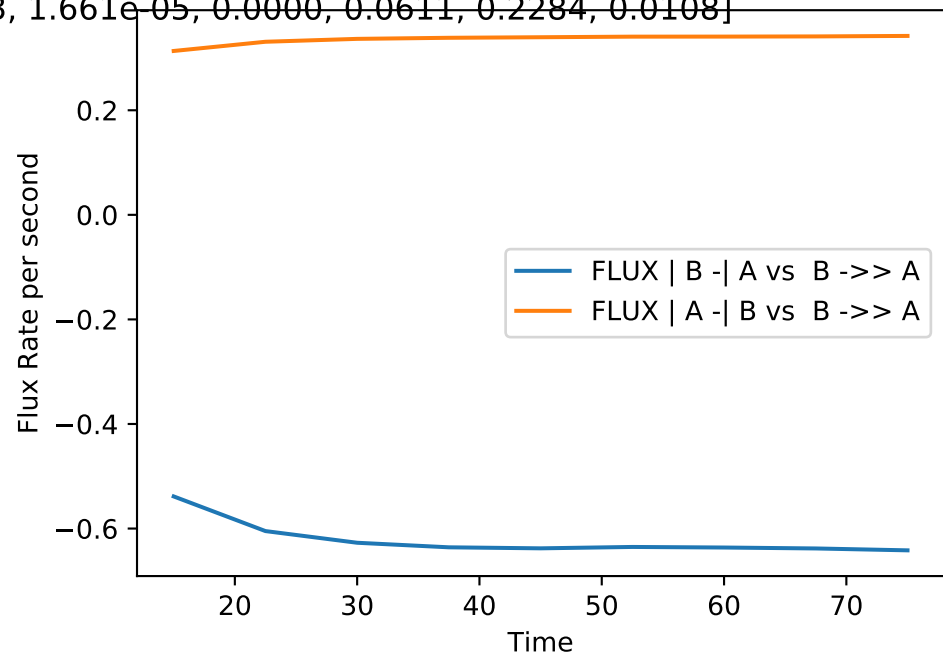
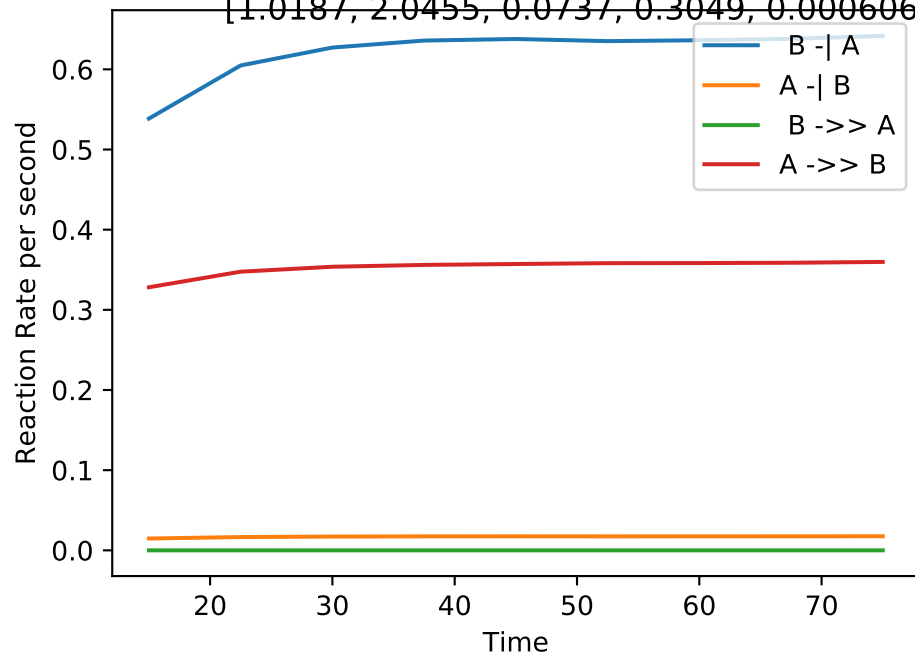
Double_up | MB-LLS Double_up(#187):

[0.0726, 1.6757, 0.1193, 0.2171, 0.001533, 1.115e-08, 0.0344, 0.1275, 0.1548, 0.0101]



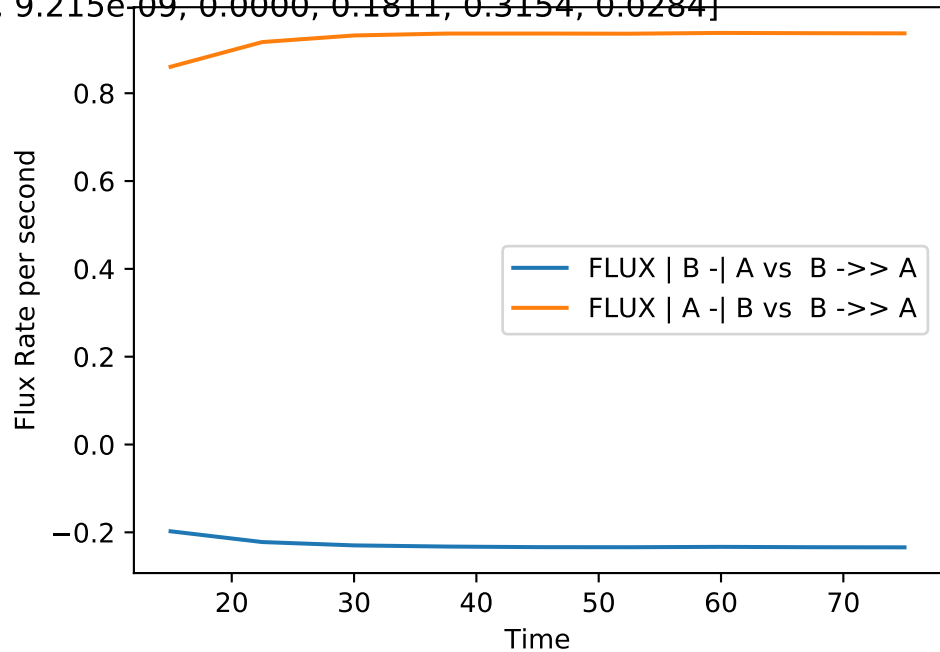
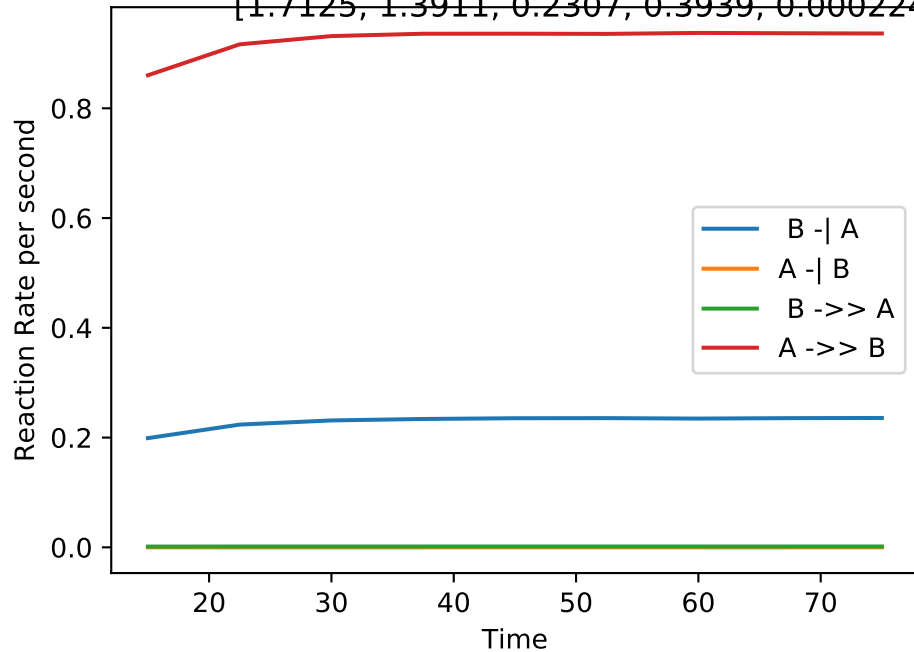
Double_up | MB-LLS Double_up(#188):

[1.0187, 2.0455, 0.0737, 0.3049, 0.0006063, 1.661e-05, 0.0000, 0.0611, 0.2284, 0.0108]



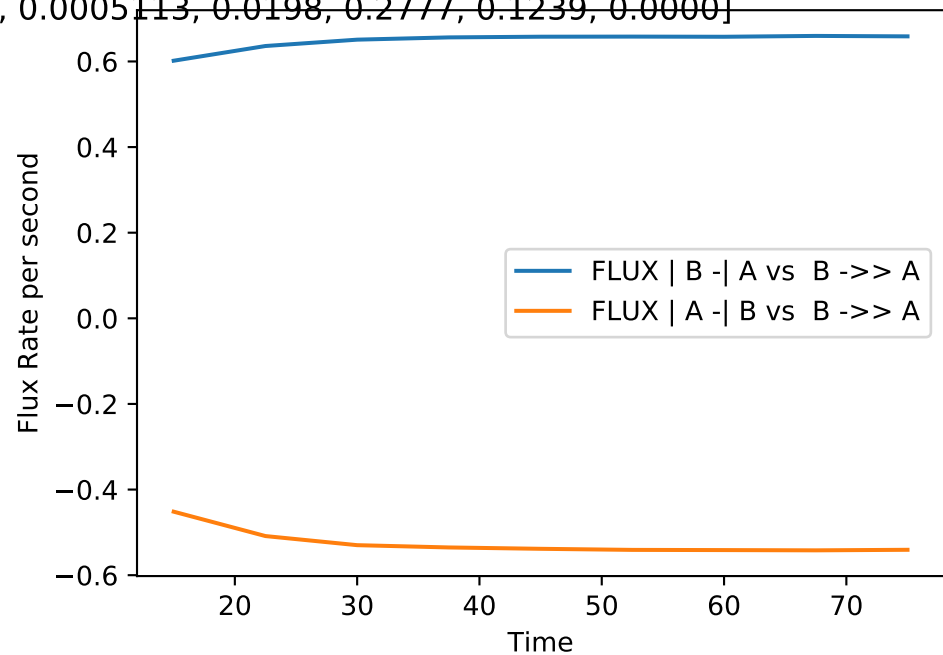
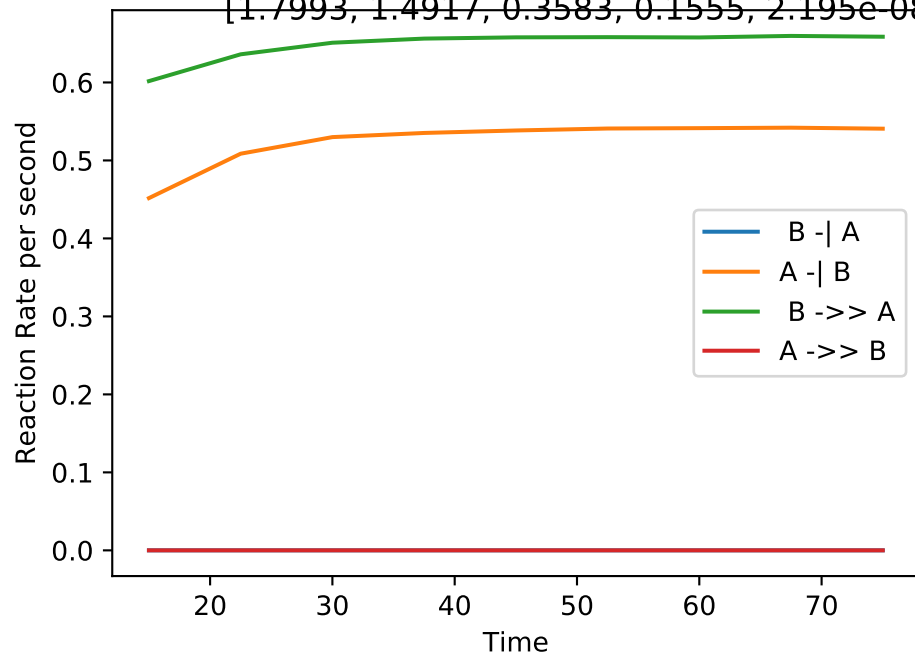
Double_up | MB-LLS Double_up(#189):

[1.7125, 1.3911, 0.2307, 0.3939, 0.000224, 9.215e-09, 0.0000, 0.1811, 0.3154, 0.0284]



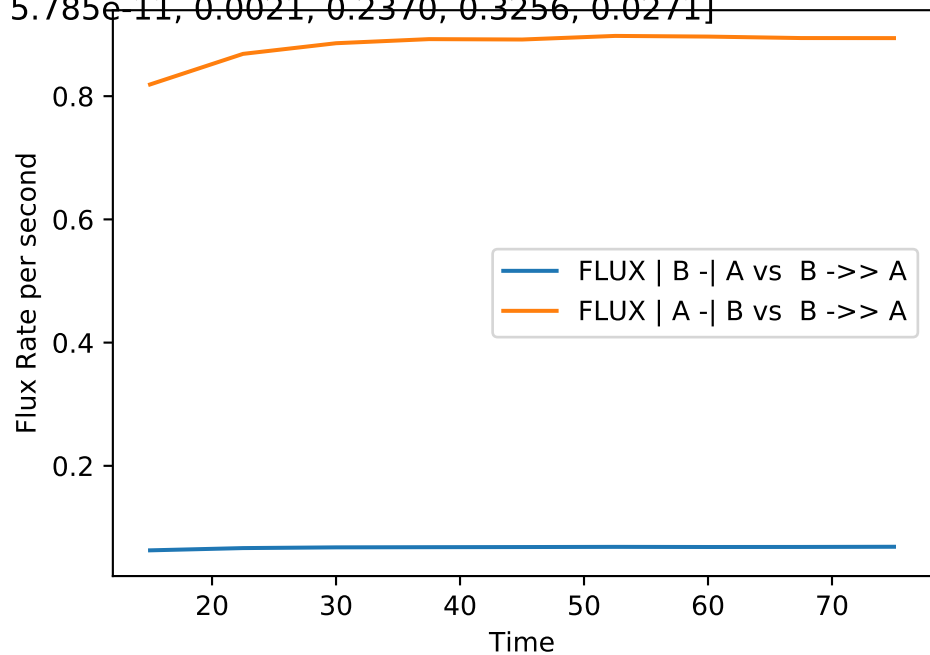
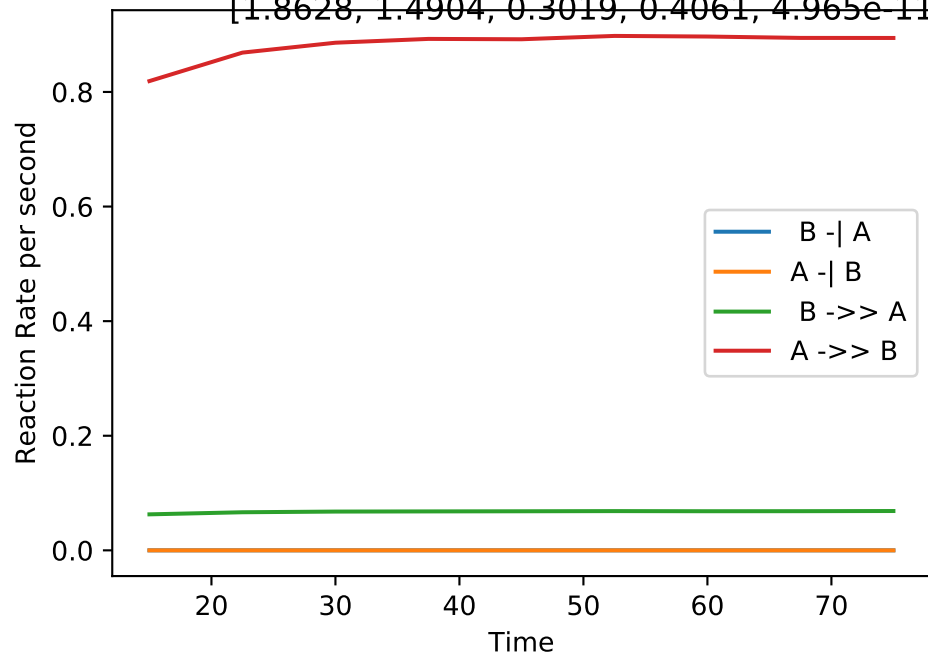
Double_up | MB-LLS Double_up(#190):

[1.7993, 1.4917, 0.3583, 0.1555, 2.195e-08, 0.0005113, 0.0198, 0.2777, 0.1239, 0.0000]



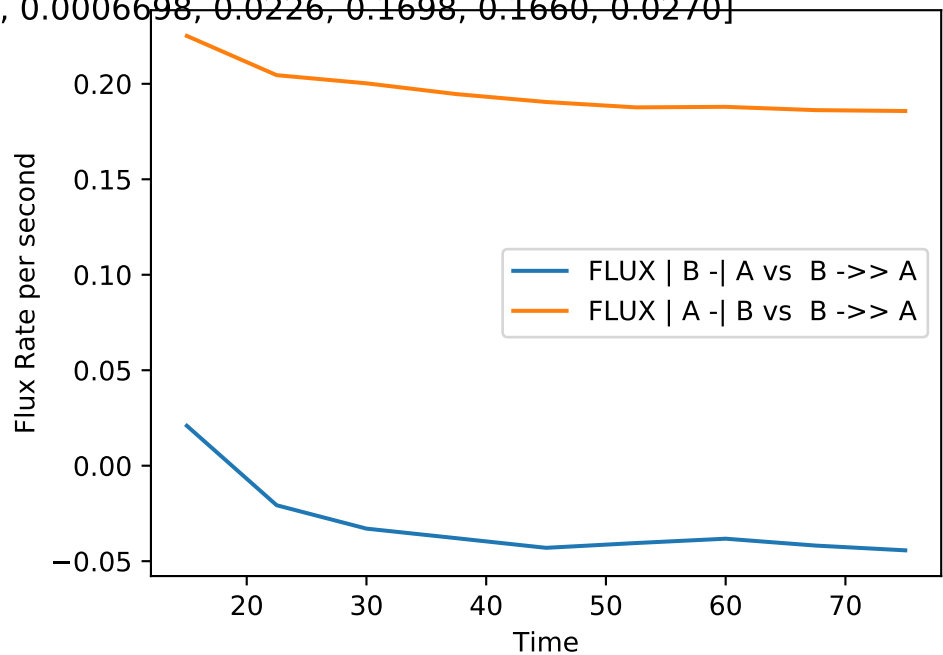
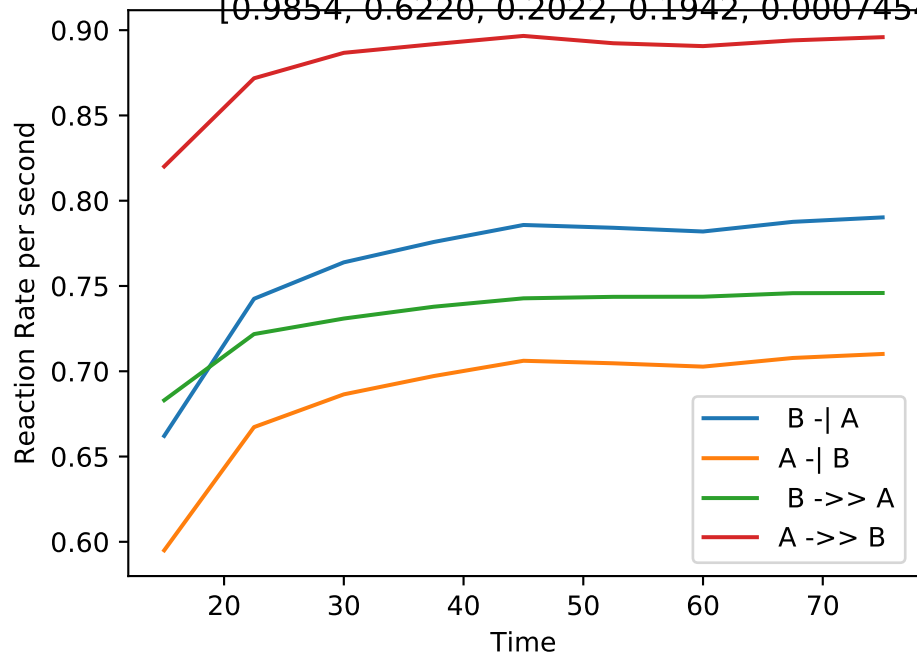
Double_up | MB-LLS Double_up(#191):

[1.8628, 1.4904, 0.3019, 0.4061, 4.965e-11, 5.785e-11, 0.0021, 0.2370, 0.3256, 0.0271]



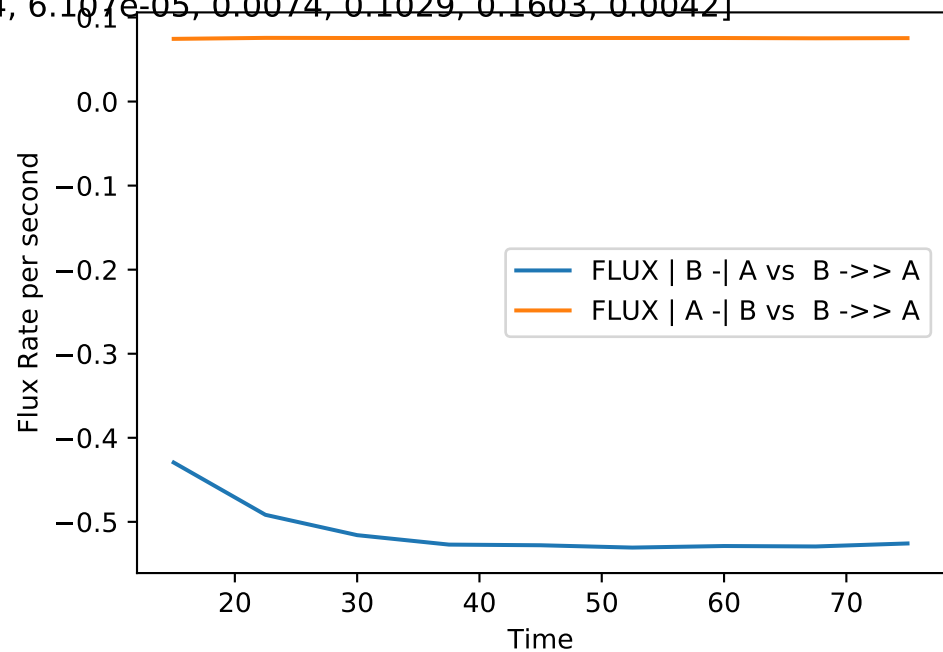
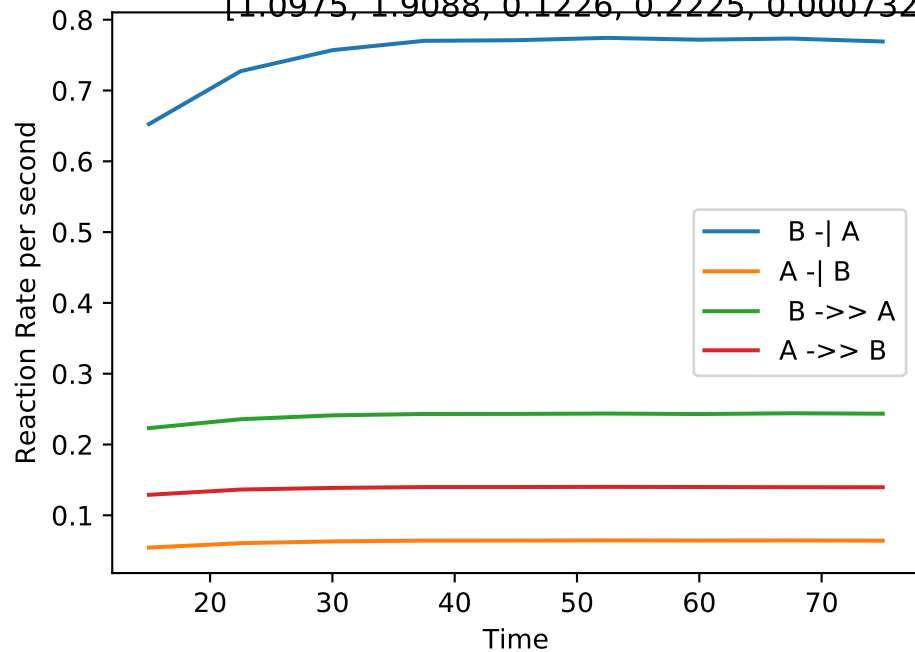
Double_up | MB-LLS Double_up(#192):

[0.9854, 0.6220, 0.2022, 0.1942, 0.0007454, 0.0006698, 0.0226, 0.1698, 0.1660, 0.0270]



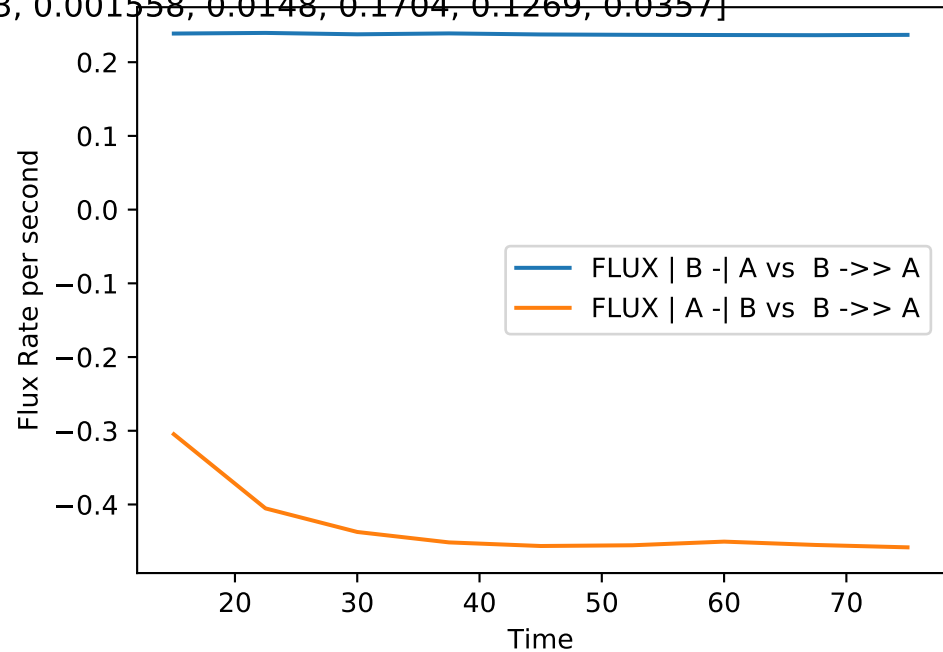
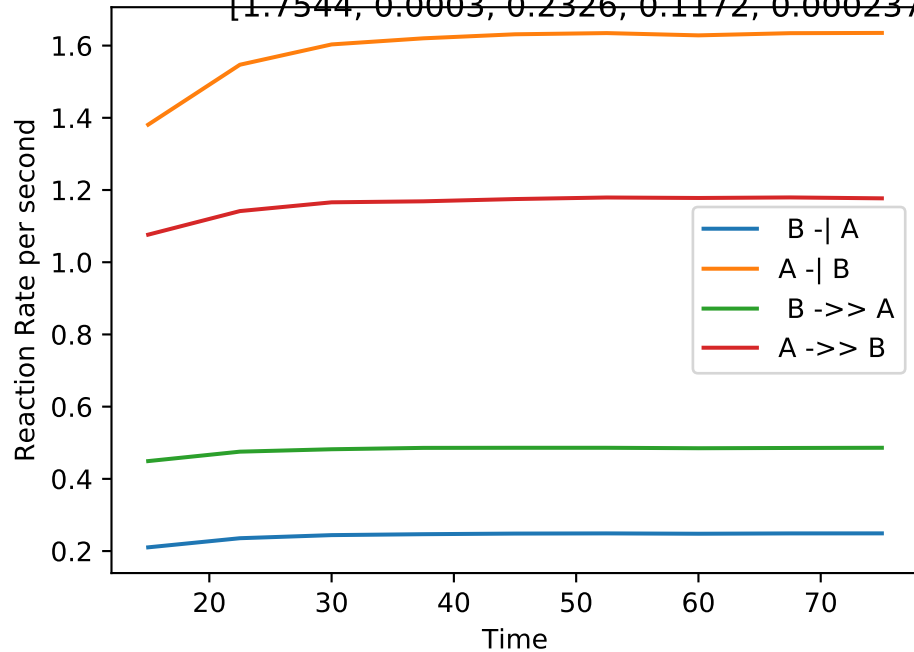
Double_up | MB-LLS Double_up(#193):

[1.0975, 1.9088, 0.1226, 0.2225, 0.0007324, 6.107e-05, 0.0074, 0.1029, 0.1603, 0.0042]



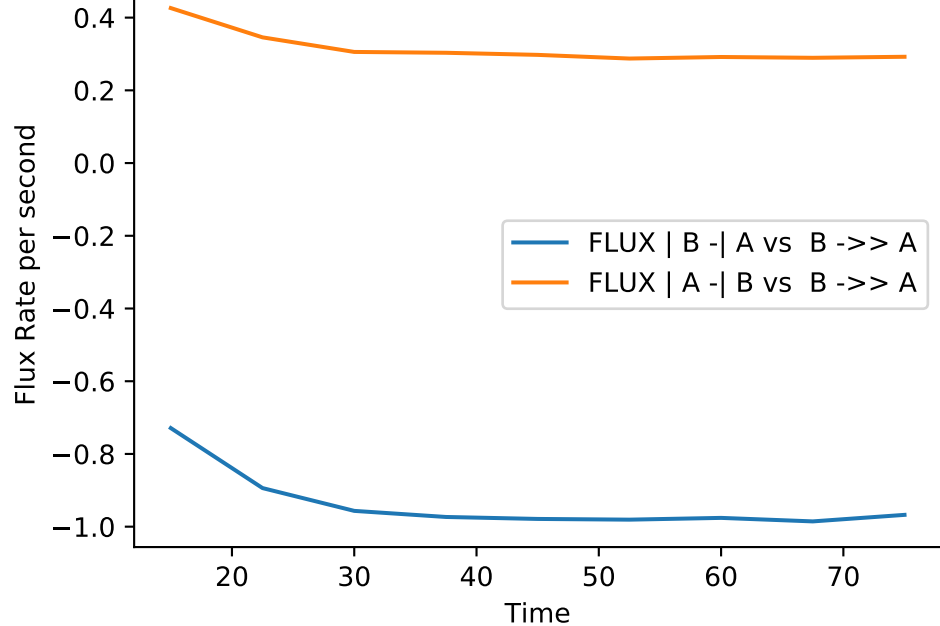
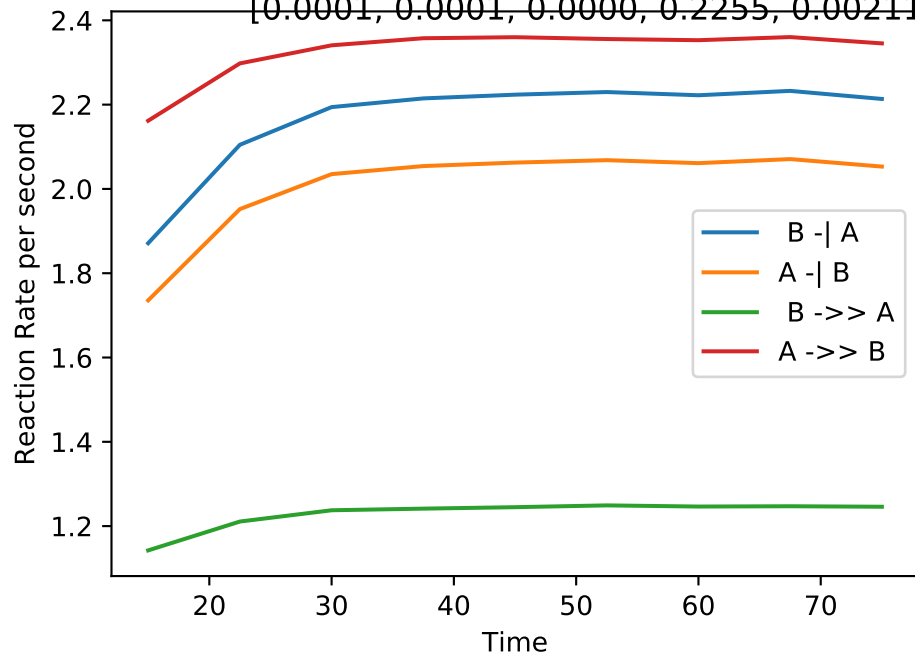
Double_up | MB-LLS Double_up(#194):

[1.7544, 0.0003, 0.2326, 0.1172, 0.0002373, 0.001558, 0.0148, 0.1704, 0.1269, 0.0357]



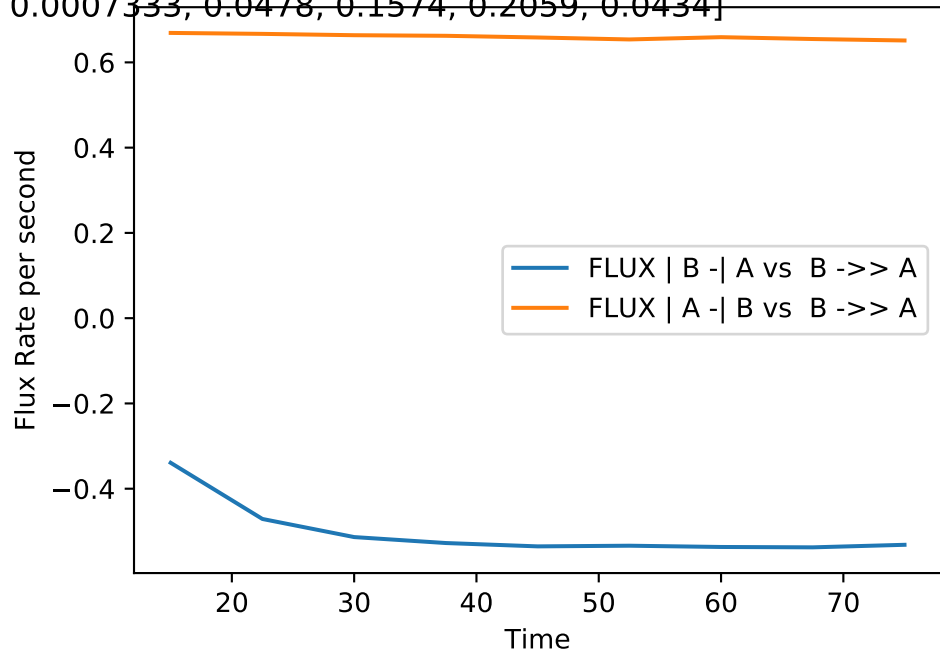
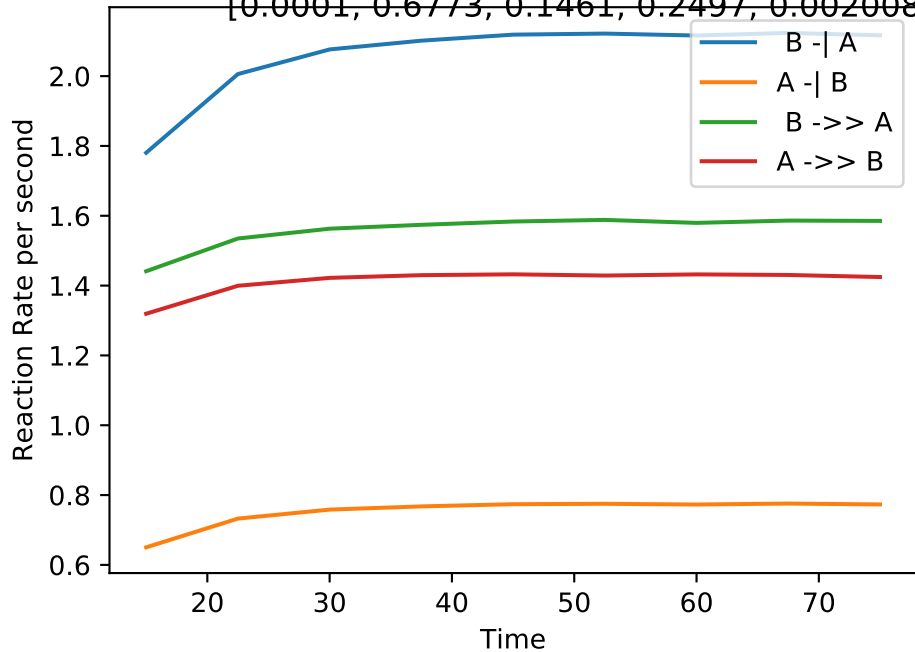
Double_up | MB-LLS Double_up(#195):

[0.0001, 0.0001, 0.0000, 0.2255, 0.002113, 0.00196, 0.0378, 0.0298, 0.2127, 0.0714]



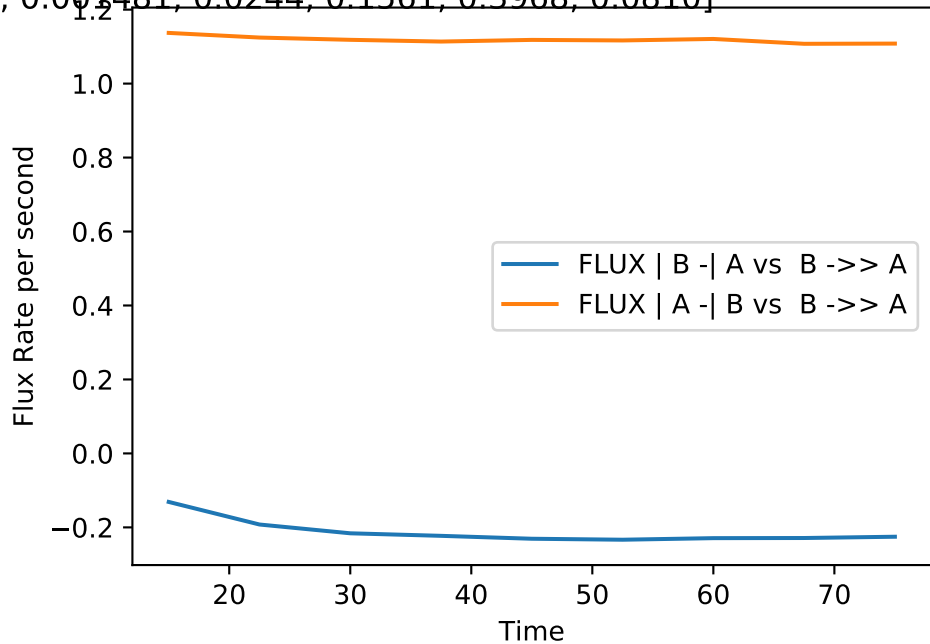
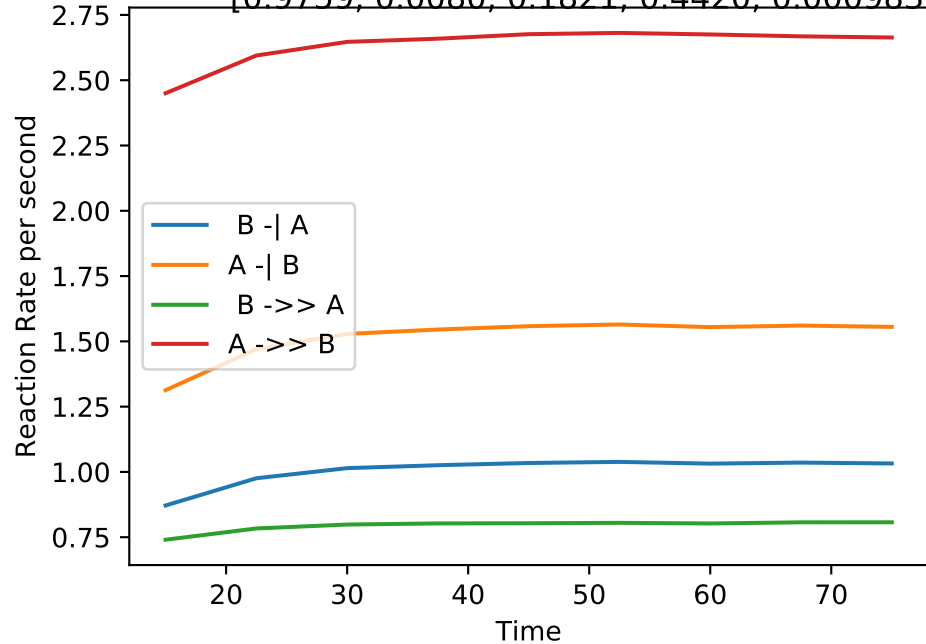
Double_up | MB-LLS Double_up(#196):

[0.0001, 0.6773, 0.1461, 0.2497, 0.002008, 0.0007333, 0.0478, 0.1574, 0.2059, 0.0434]



Double_up | MB-LLS Double_up(#197):

[0.9759, 0.0080, 0.1821, 0.4420, 0.0009831, 0.001481, 0.0244, 0.1561, 0.3968, 0.0810]

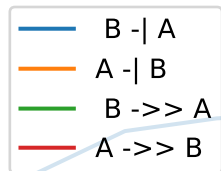


Double_up | MB-LLS Double_up(#198):

[0.0000, 0.0000, 0.0000, 0.5931, 0.001981, 0.001341, 0.0287, 0.0334, 0.5157, 0.1062]

Reaction Rate per second

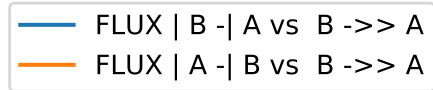
3.5
3.0
2.5
2.0
1.5
1.0



Time

Flux Rate per second

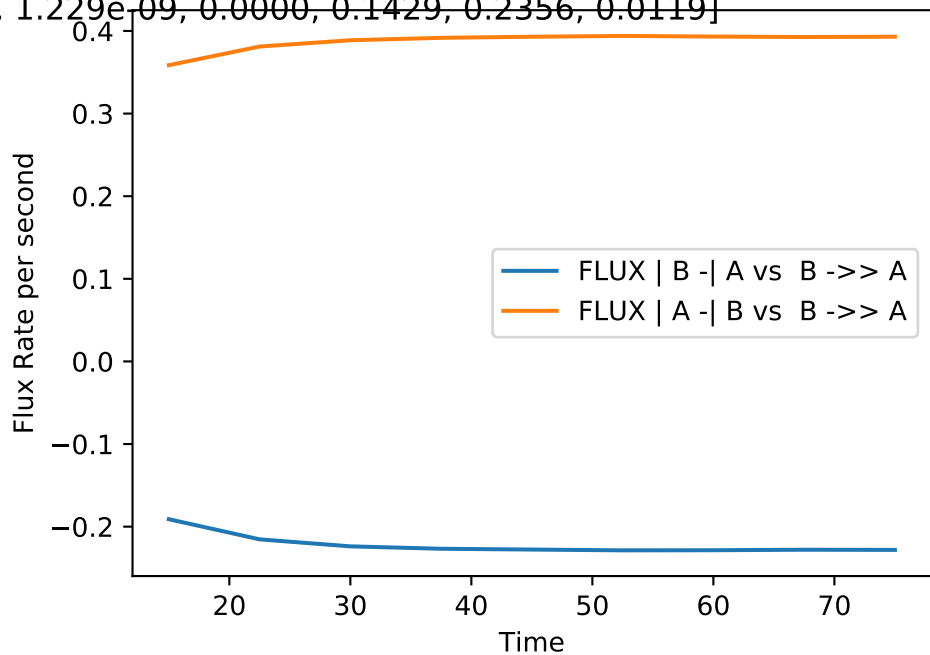
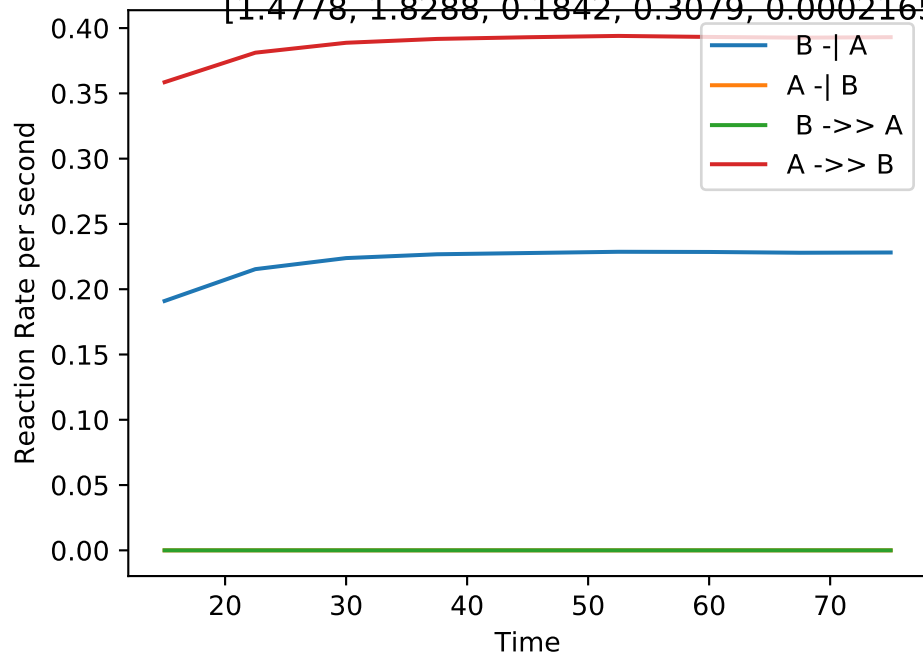
2.0
1.5
1.0
0.5
0.0
-0.5
-1.0



Time

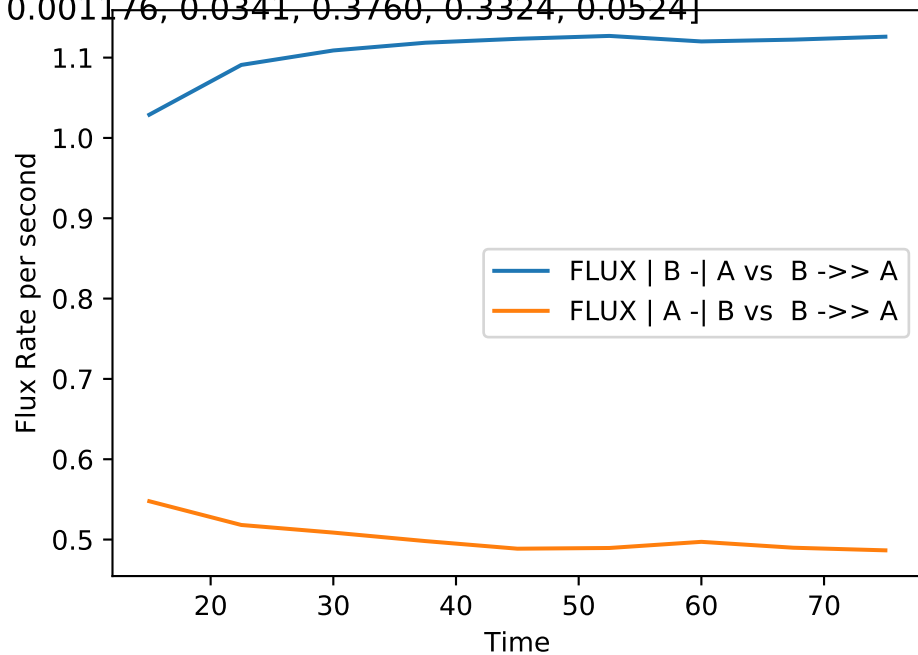
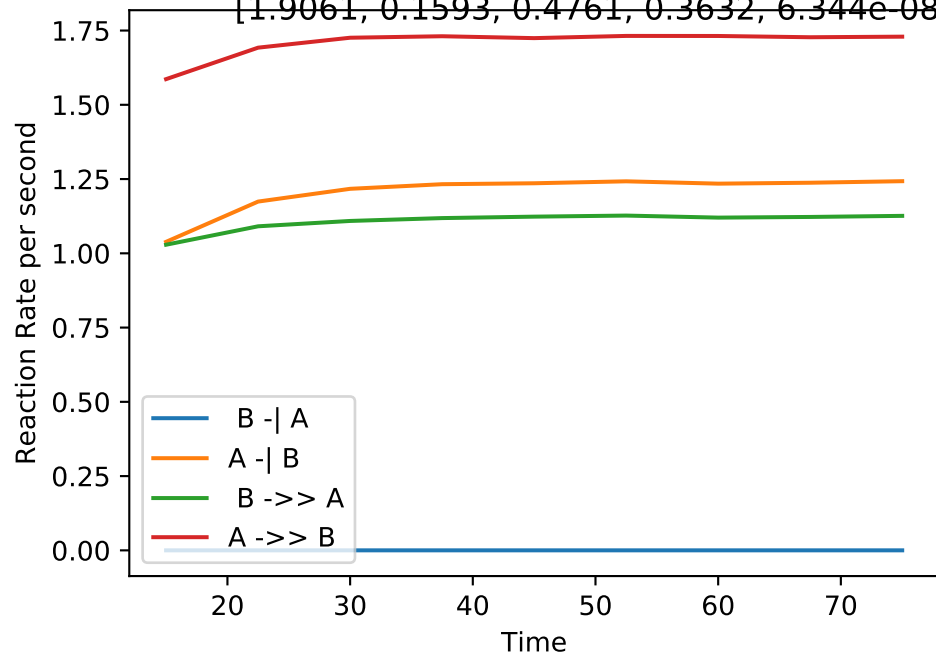
Double_up | MB-LLS Double_up(#199):

[1.4778, 1.8288, 0.1842, 0.3079, 0.0002165, 1.229e-09, 0.0000, 0.1429, 0.2356, 0.0119]



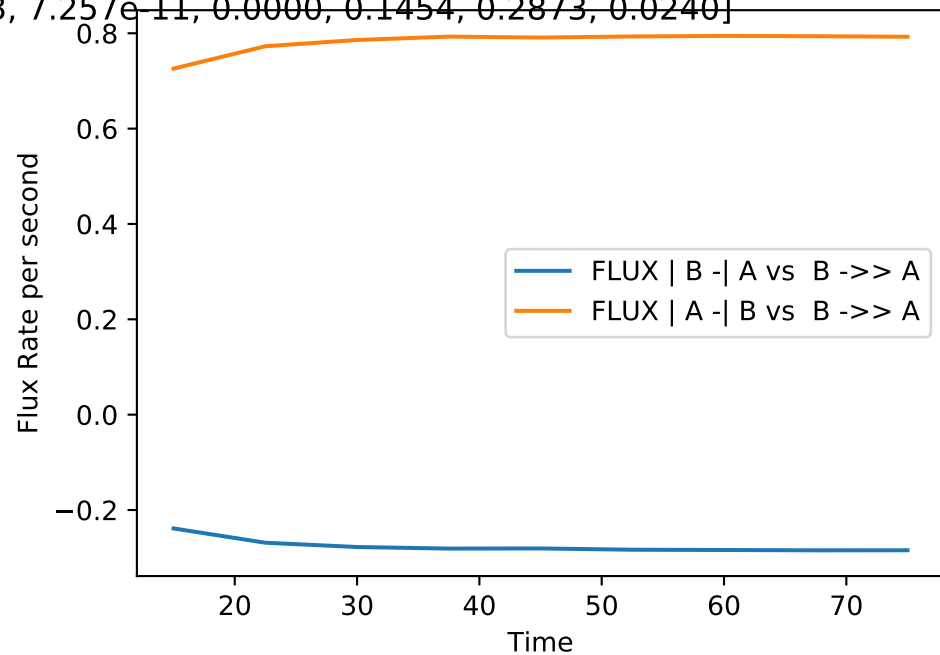
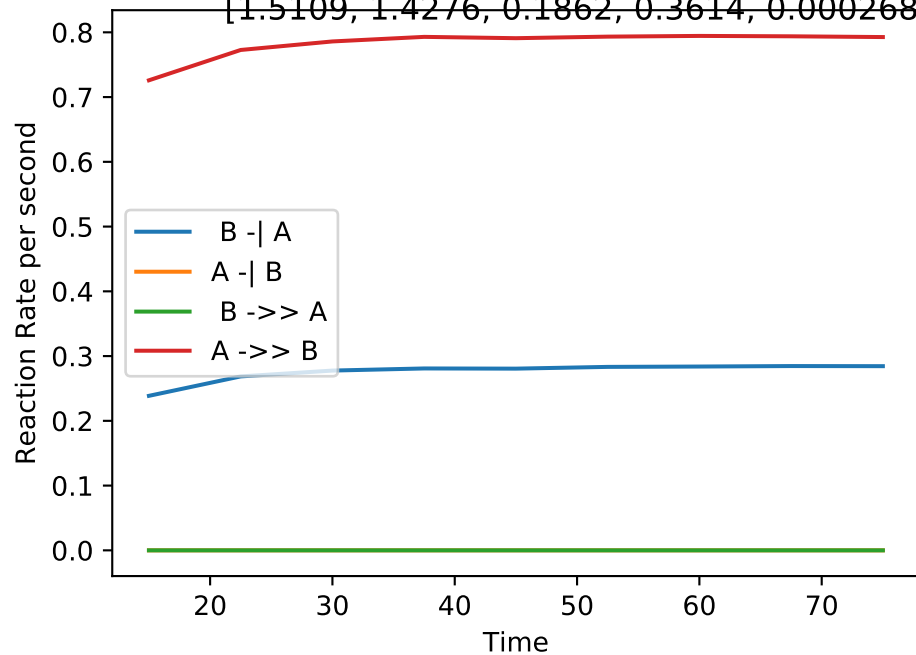
Double_up | MB-LLS Double_up(#200):

[1.9061, 0.1593, 0.4761, 0.3632, 6.344e-08, 0.001176, 0.0341, 0.3760, 0.3324, 0.0524]



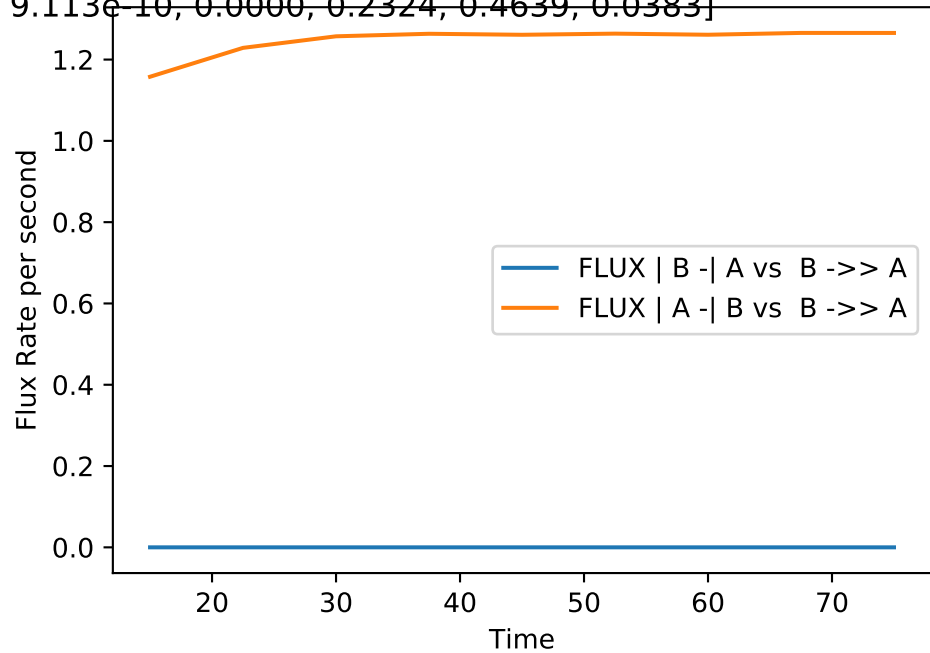
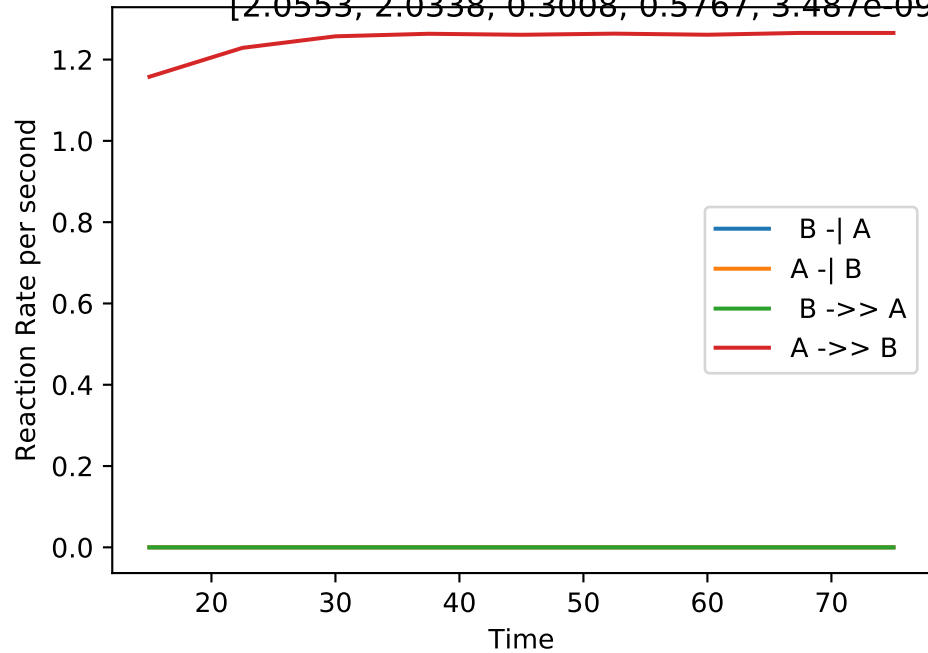
Double_up | MB-LLS Double_up(#201):

[1.5109, 1.4276, 0.1862, 0.3614, 0.0002683, 7.257e-11, 0.0000, 0.1454, 0.2873, 0.0240]



Double_up | MB-LLS Double_up(#202):

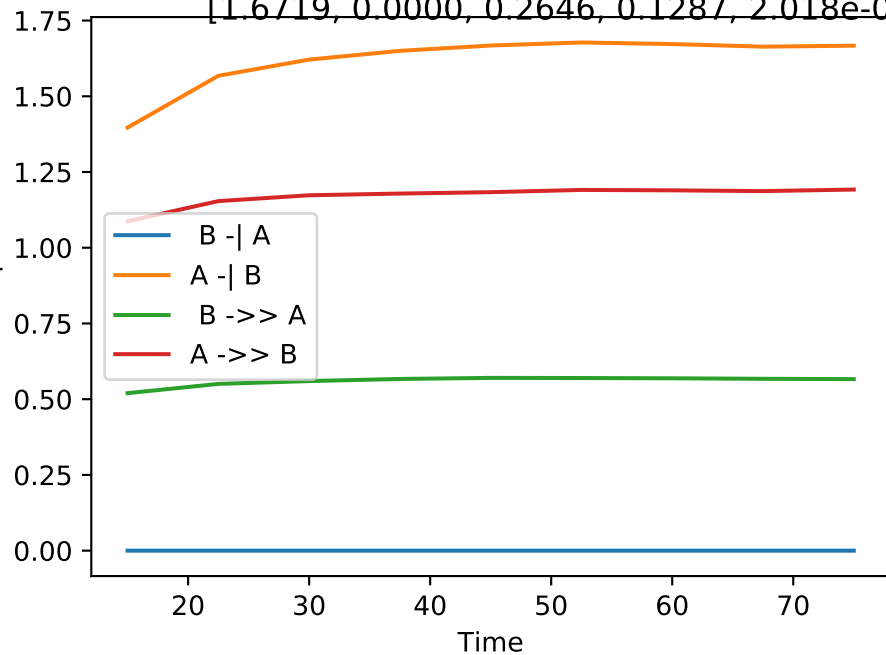
[2.0553, 2.0338, 0.3008, 0.5767, 3.487e-09, 9.113e-10, 0.0000, 0.2324, 0.4639, 0.0383]



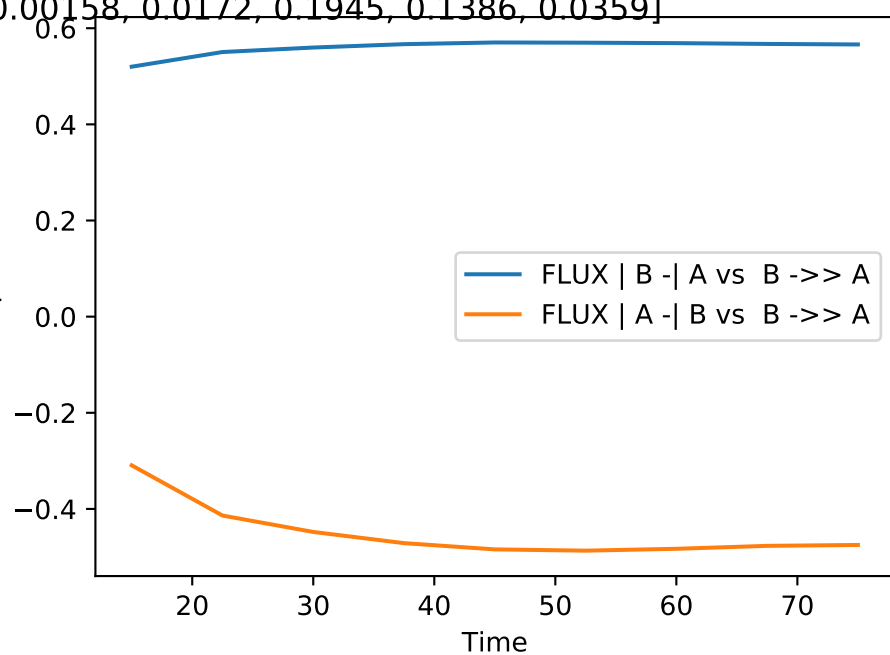
Double_up | MB-LLS Double_up(#203):

[1.6719, 0.0000, 0.2646, 0.1287, 2.018e-09, 0.00158, 0.0172, 0.1945, 0.1386, 0.0359]

Reaction Rate per second

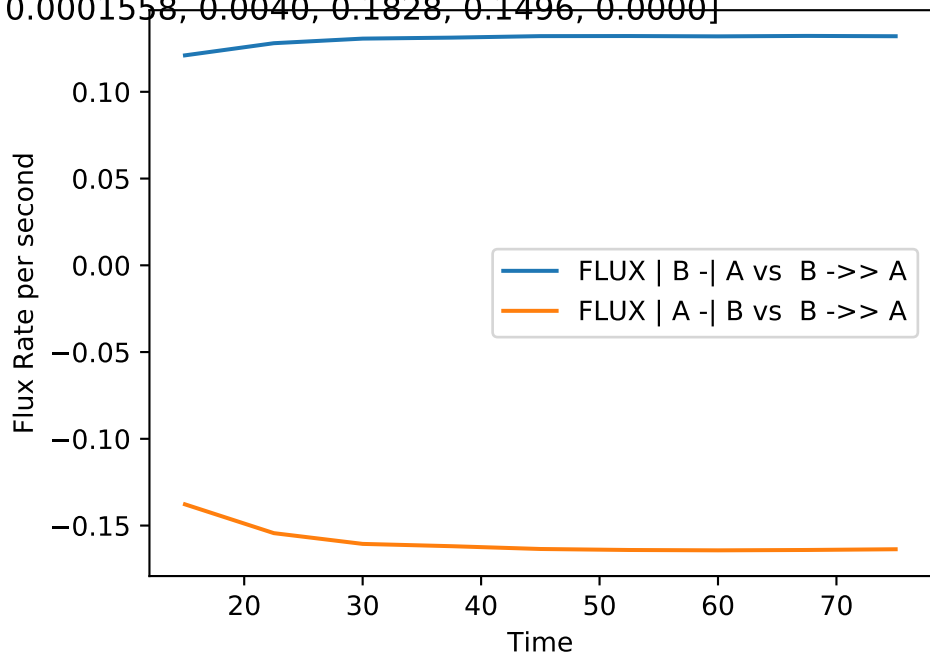
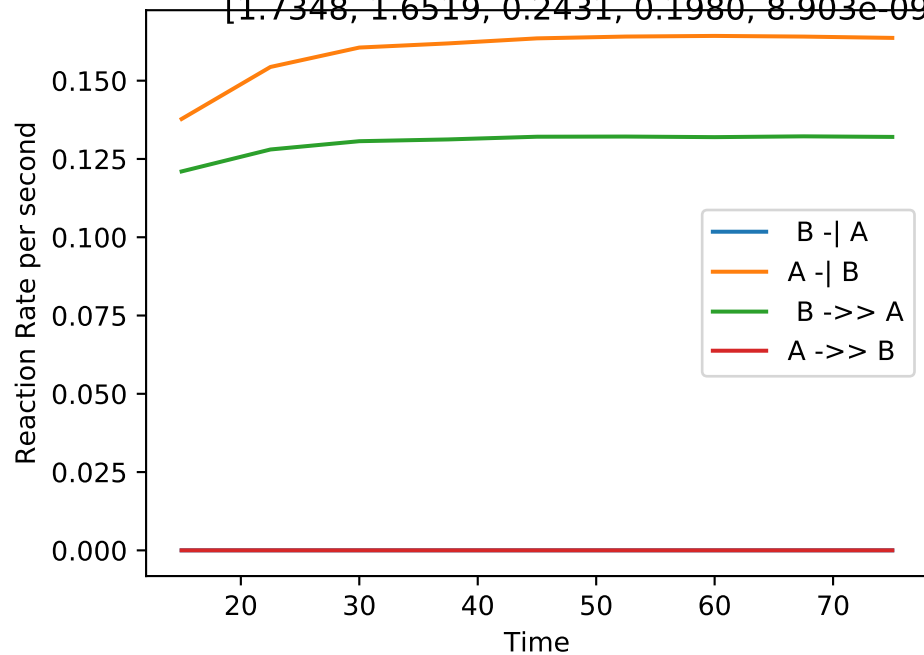


Flux Rate per second



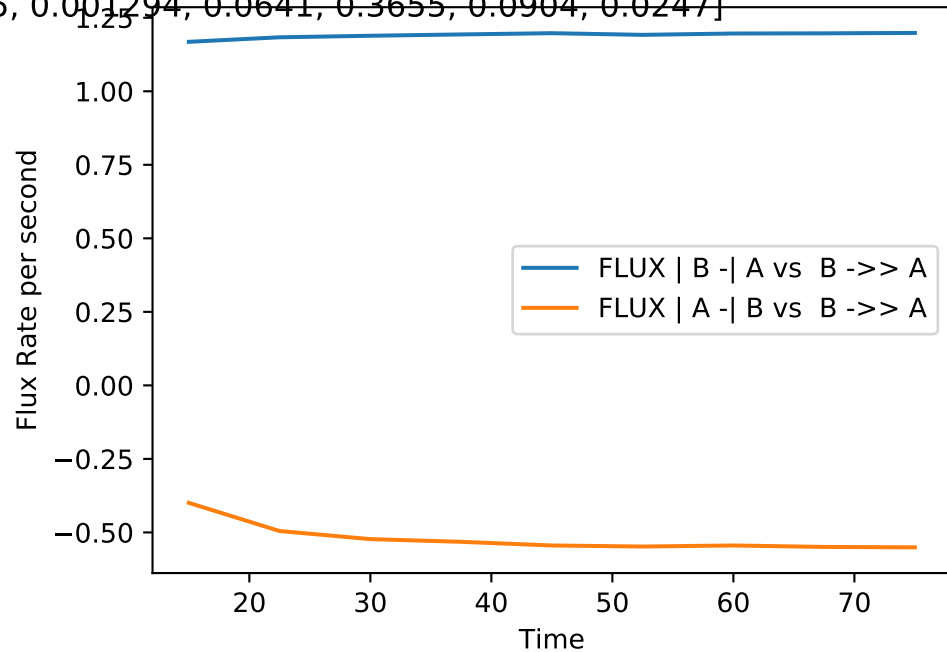
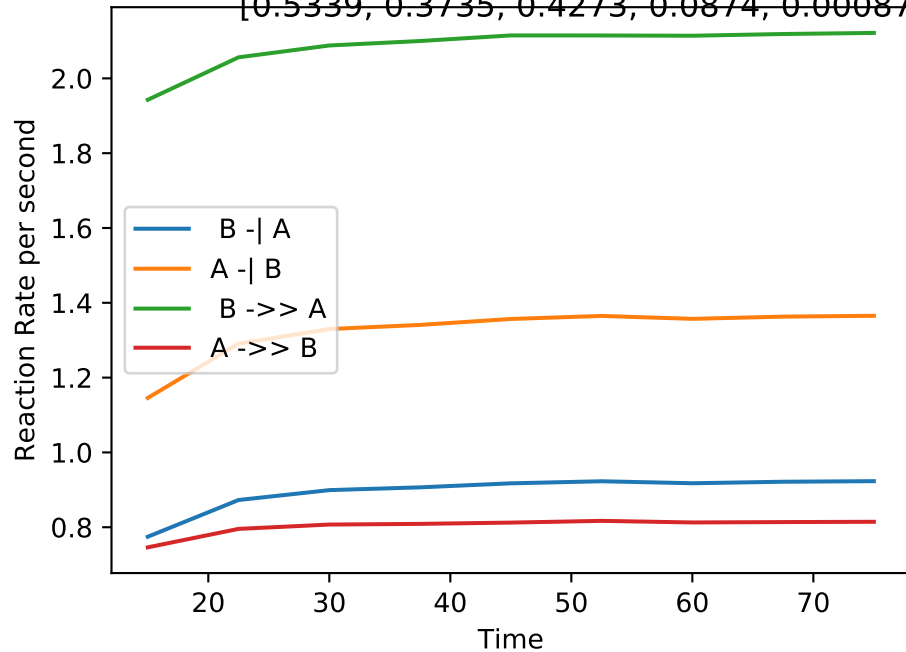
Double_up | MB-LLS Double_up(#204):

[1.7348, 1.6519, 0.2431, 0.1980, 8.903e-09, 0.0001558, 0.0040, 0.1828, 0.1496, 0.0000]



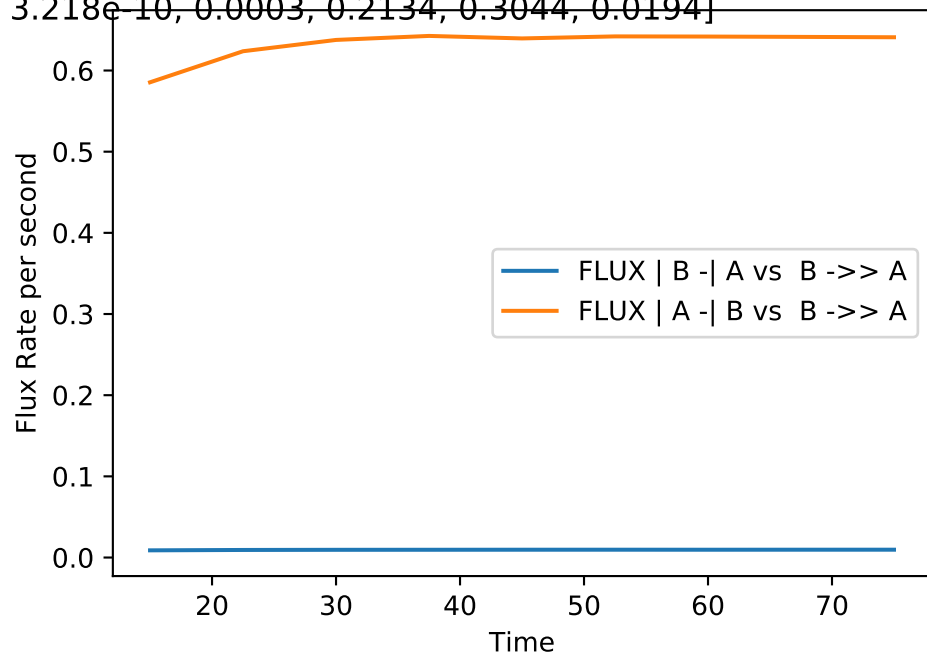
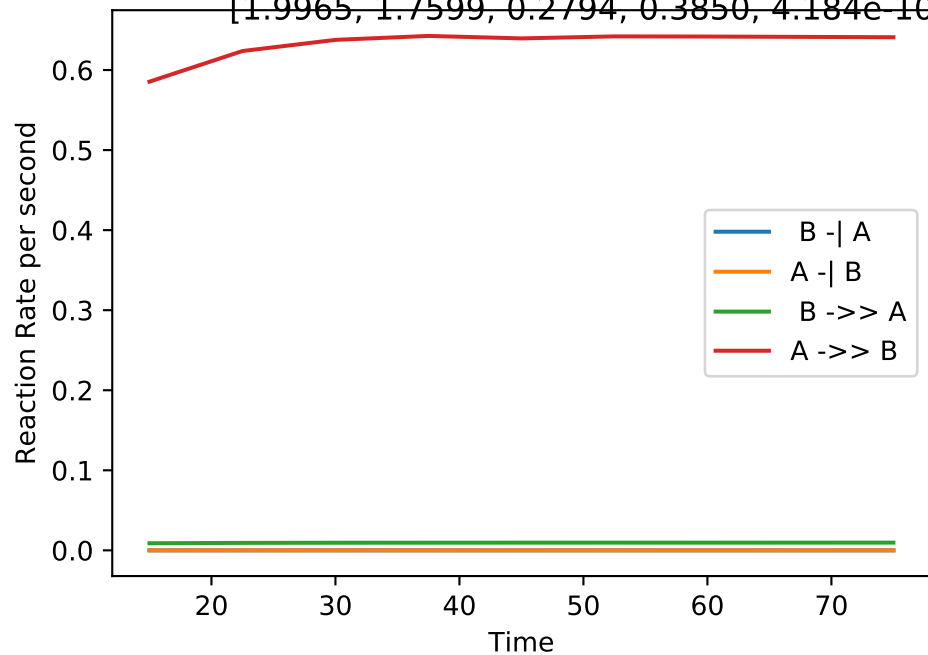
Double_up | MB-LLS Double_up(#205):

[0.5339, 0.3735, 0.4273, 0.0874, 0.000875, 0.001294, 0.0641, 0.3655, 0.0904, 0.0247]



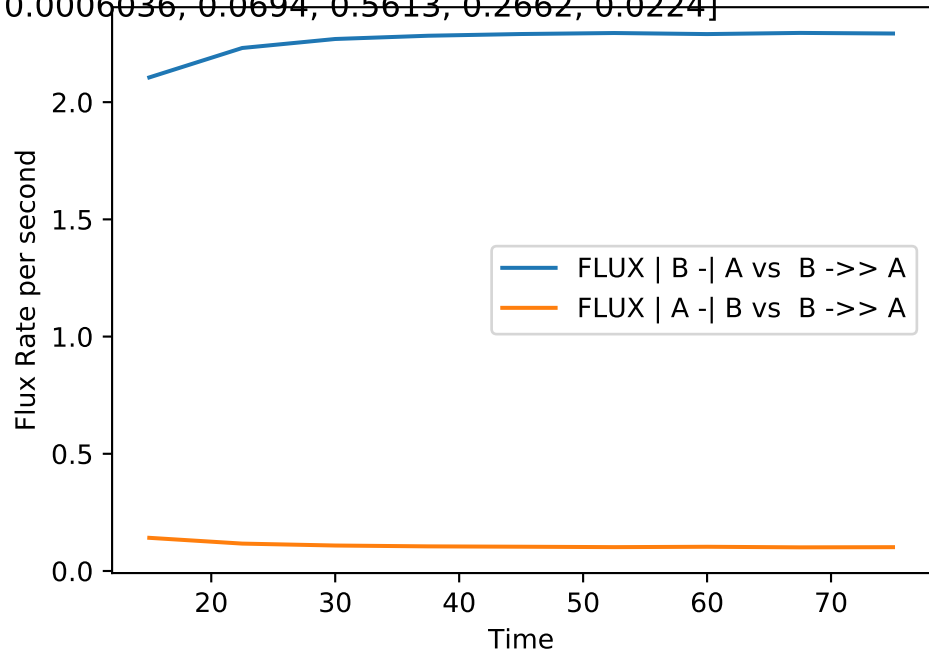
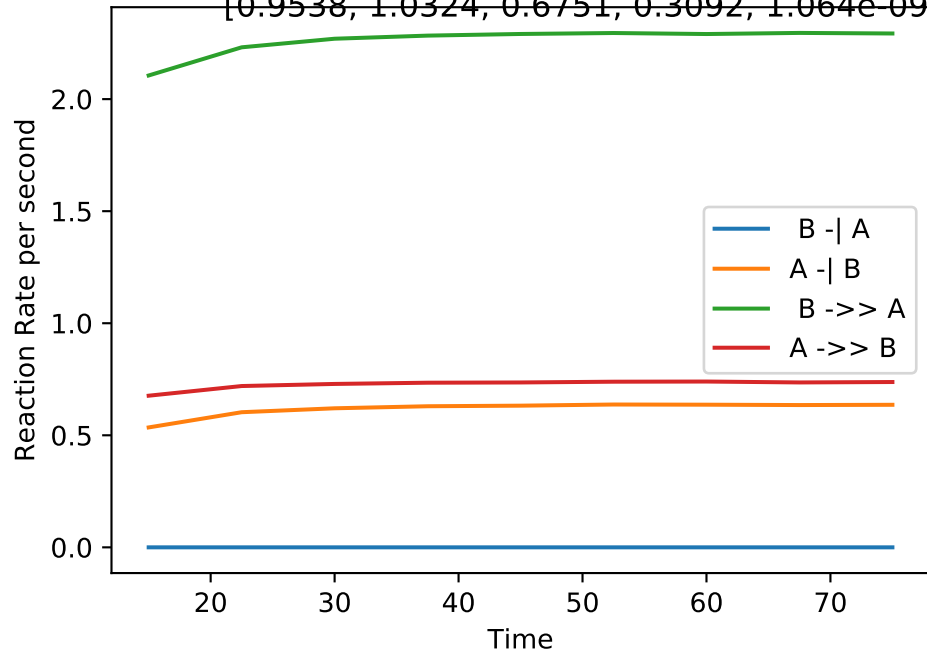
Double_up | MB-LLS Double_up(#206):

[1.9965, 1.7599, 0.2794, 0.3850, 4.184e-10, 3.218e-10, 0.0003, 0.2134, 0.3044, 0.0194]



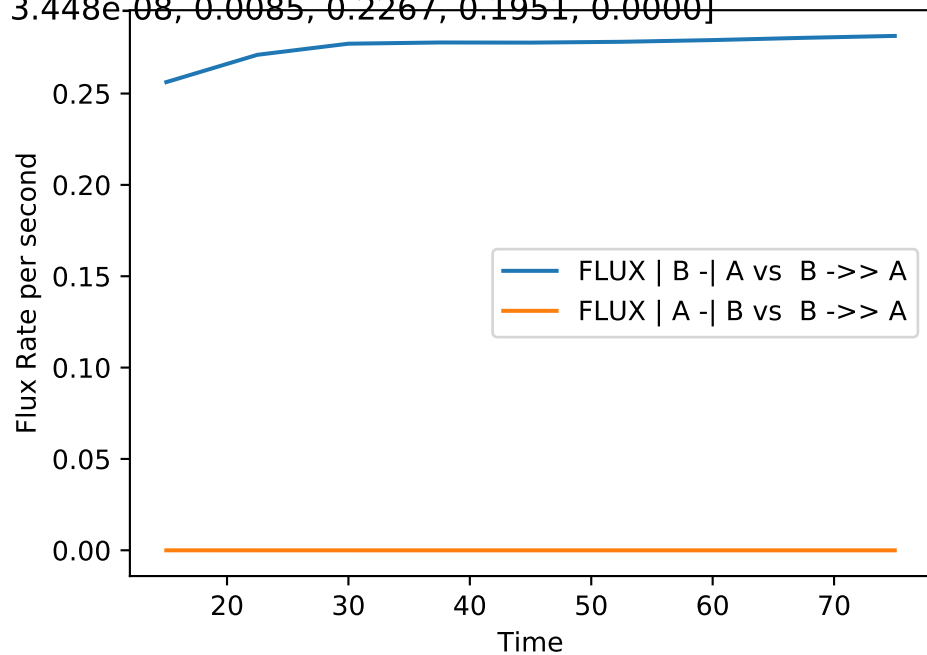
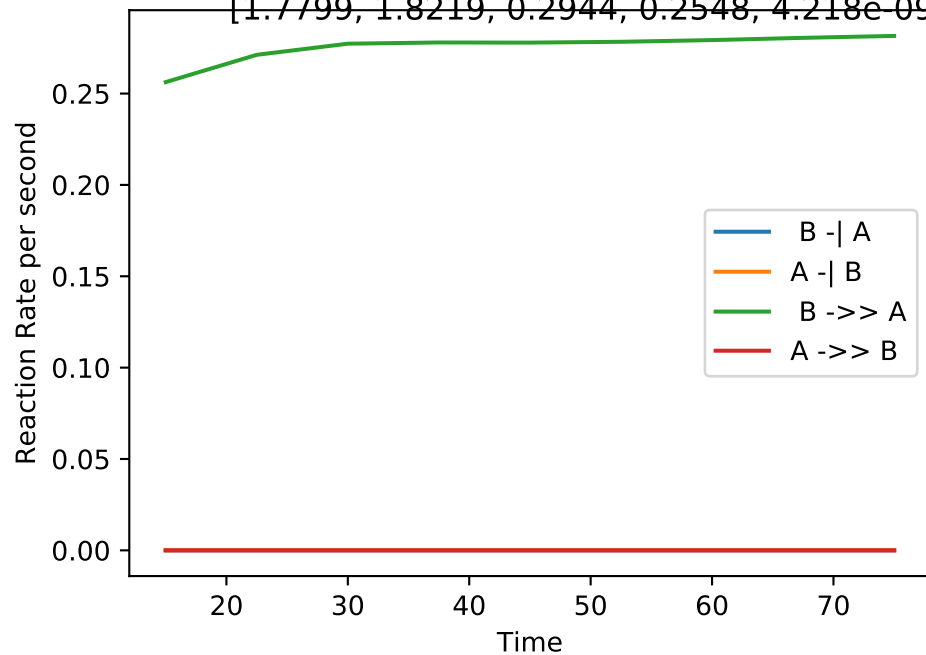
Double_up | MB-LLS Double_up(#207):

[0.9538, 1.0324, 0.6751, 0.3092, 1.064e-09, 0.0006036, 0.0694, 0.5613, 0.2662, 0.0224]



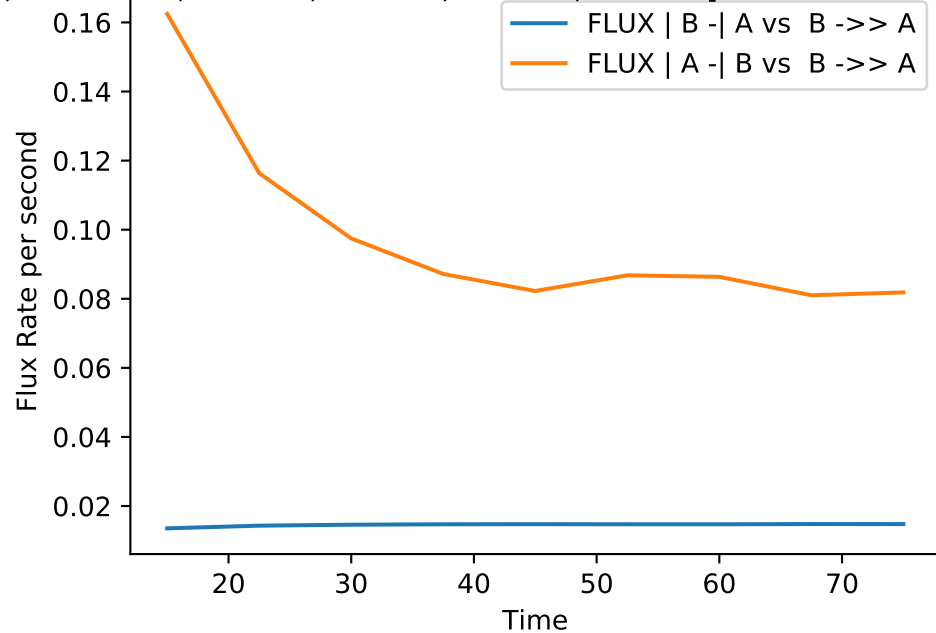
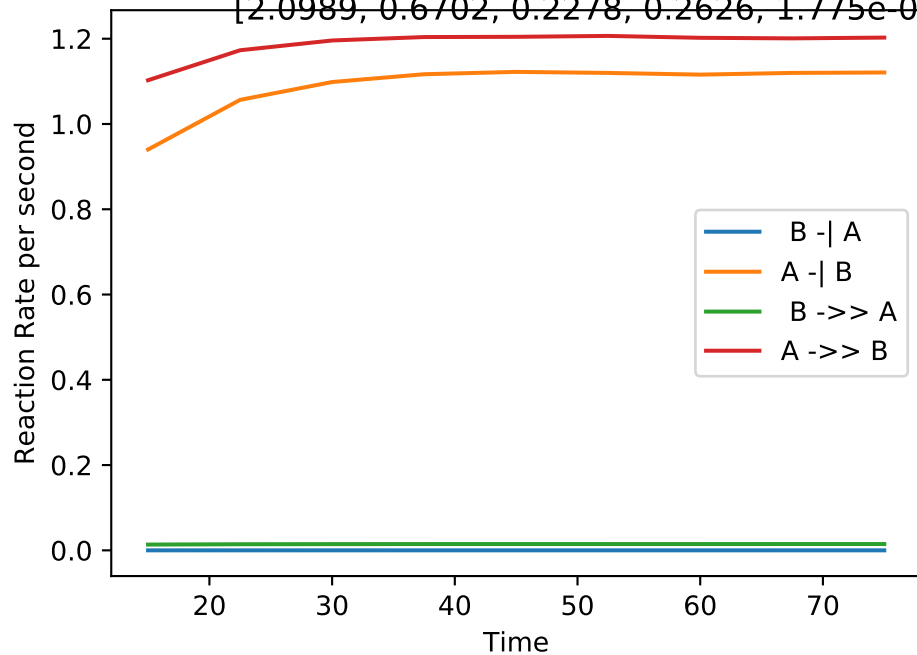
Double_up | MB-LLS Double_up(#208):

[1.7799, 1.8219, 0.2944, 0.2548, 4.218e-09, 3.448e-08, 0.0085, 0.2267, 0.1951, 0.0000]



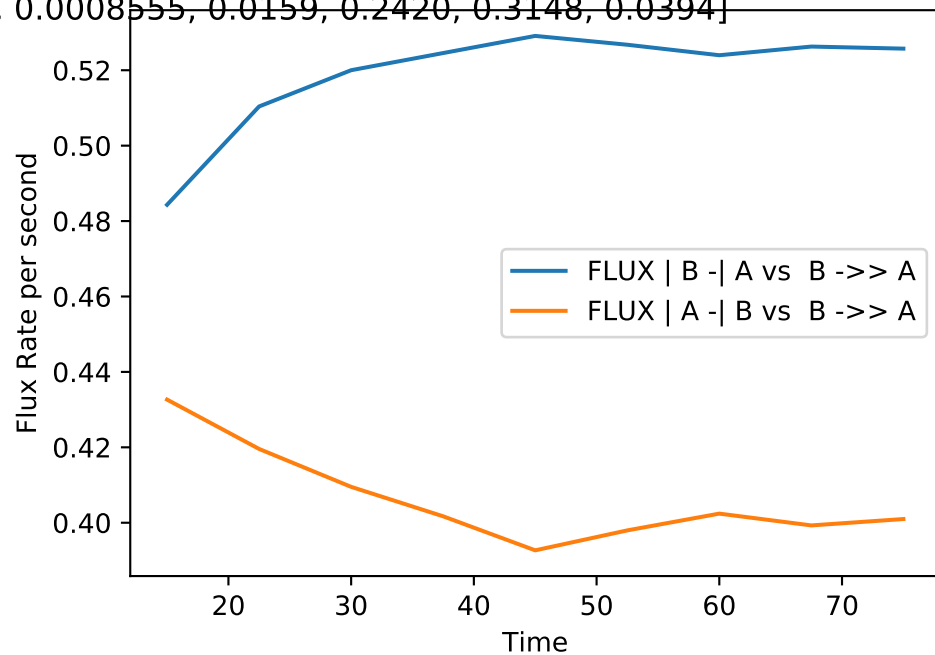
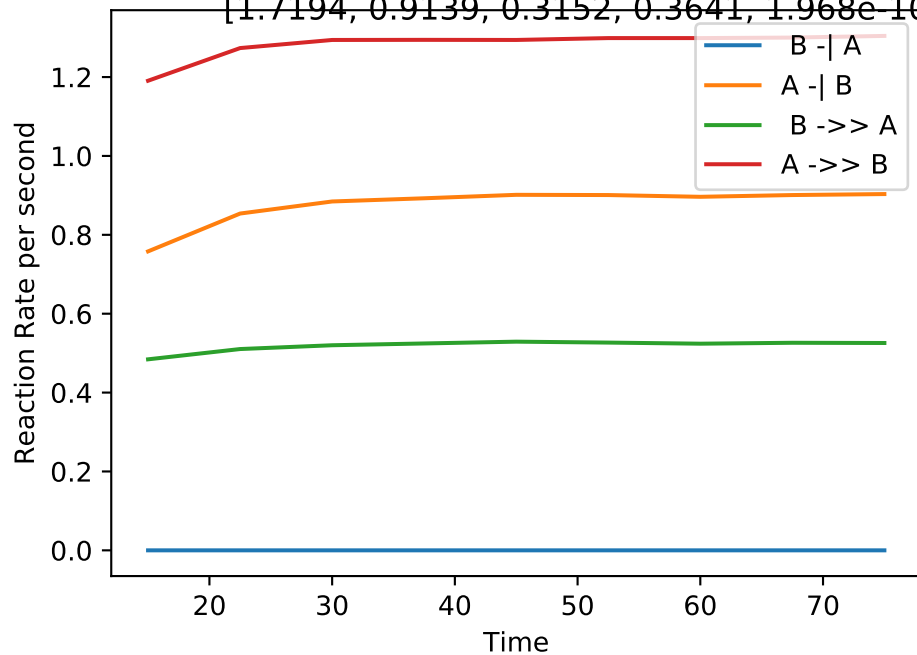
Double_up | MB-LLS Double_up(#209):

[2.0989, 0.6702, 0.2278, 0.2626, 1.775e-08, 0.001062, 0.0004, 0.1617, 0.2331, 0.0364]



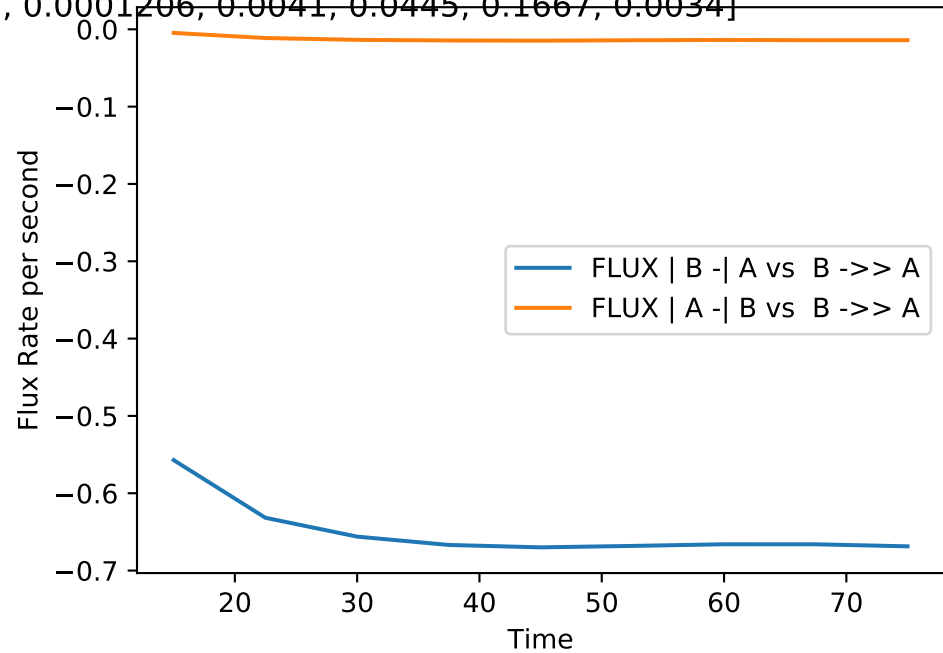
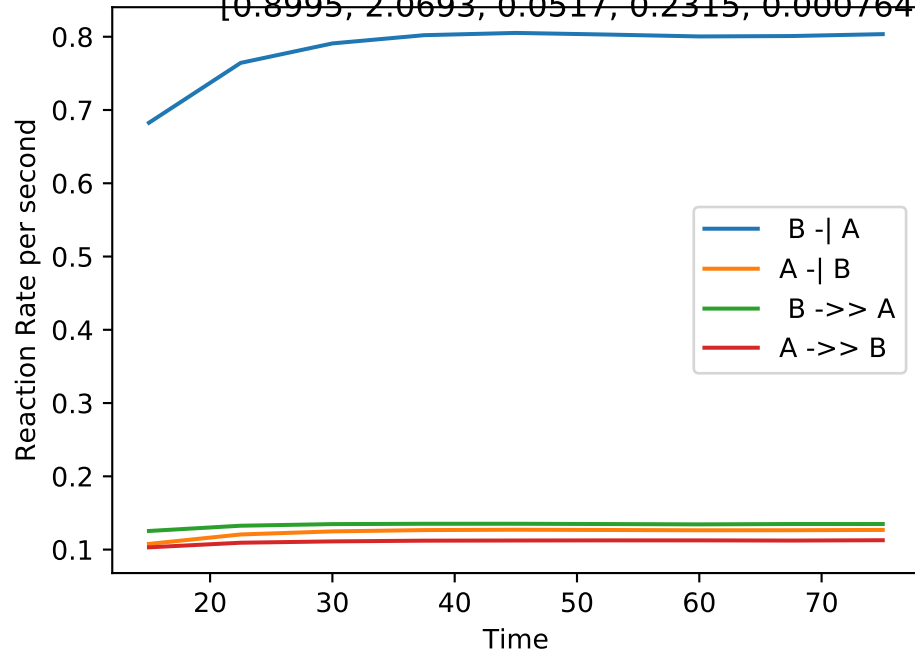
Double_up | MB-LLS Double_up(#210):

[1.7194, 0.9139, 0.3152, 0.3641, 1.968e-10, 0.0008555, 0.0159, 0.2420, 0.3148, 0.0394]



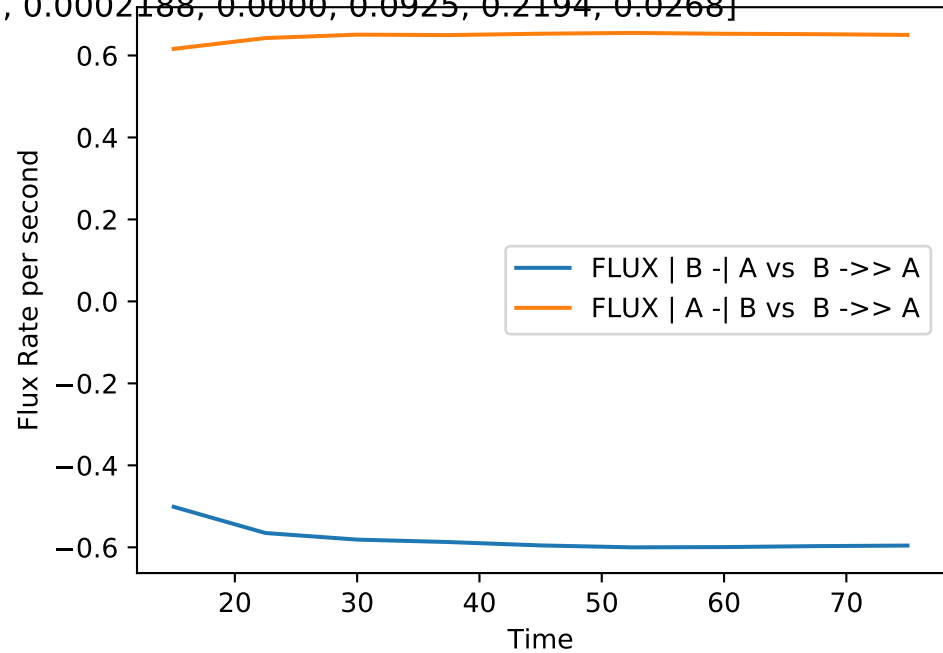
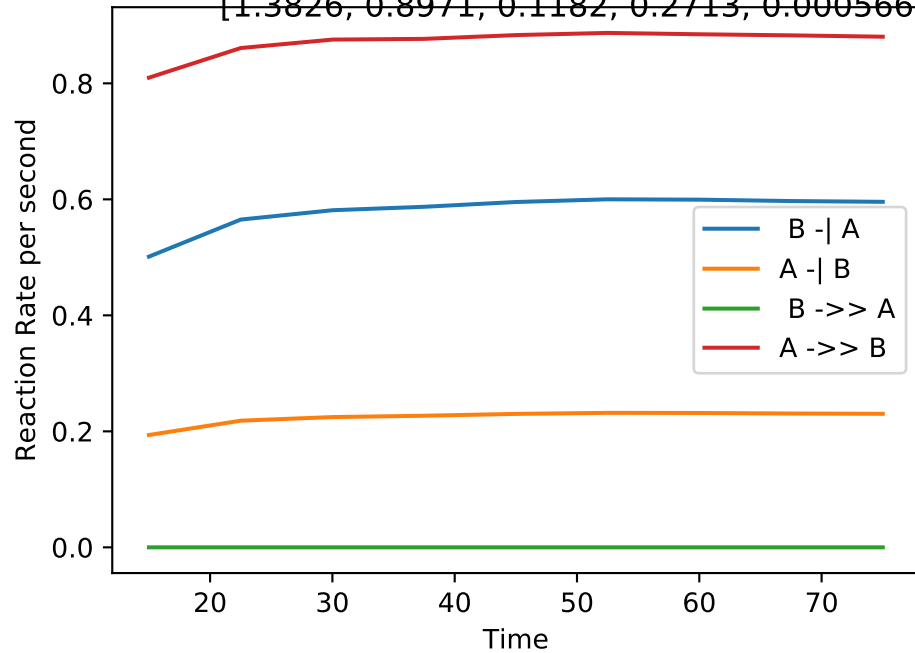
Double_up | MB-LLS Double_up(#211):

[0.8995, 2.0693, 0.0517, 0.2315, 0.0007642, 0.0001206, 0.0041, 0.0445, 0.1667, 0.0034]



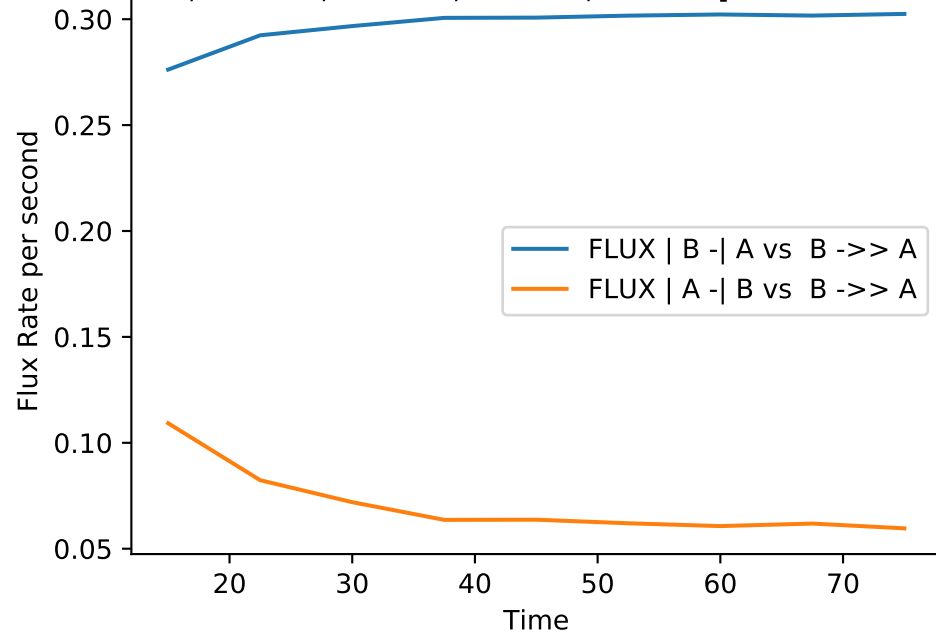
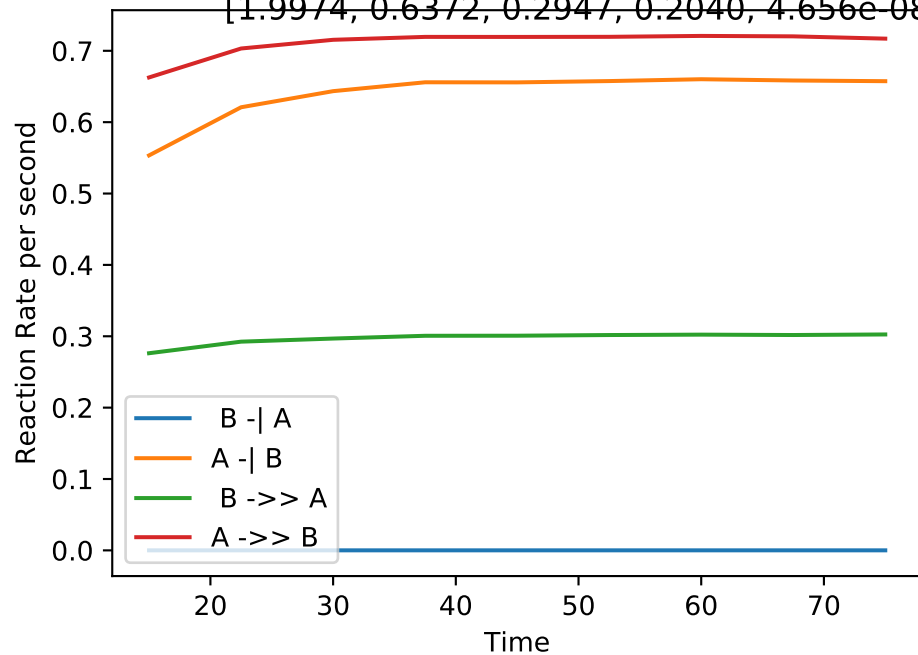
Double_up | MB-LLS Double_up(#212):

[1.3826, 0.8971, 0.1182, 0.2713, 0.0005663, 0.0002188, 0.0000, 0.0925, 0.2194, 0.0268]



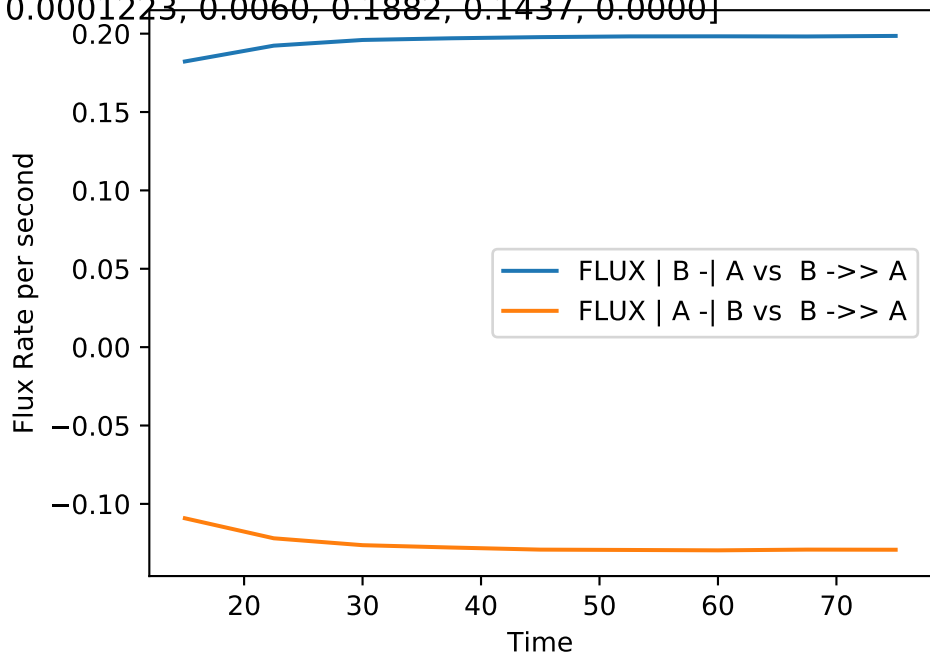
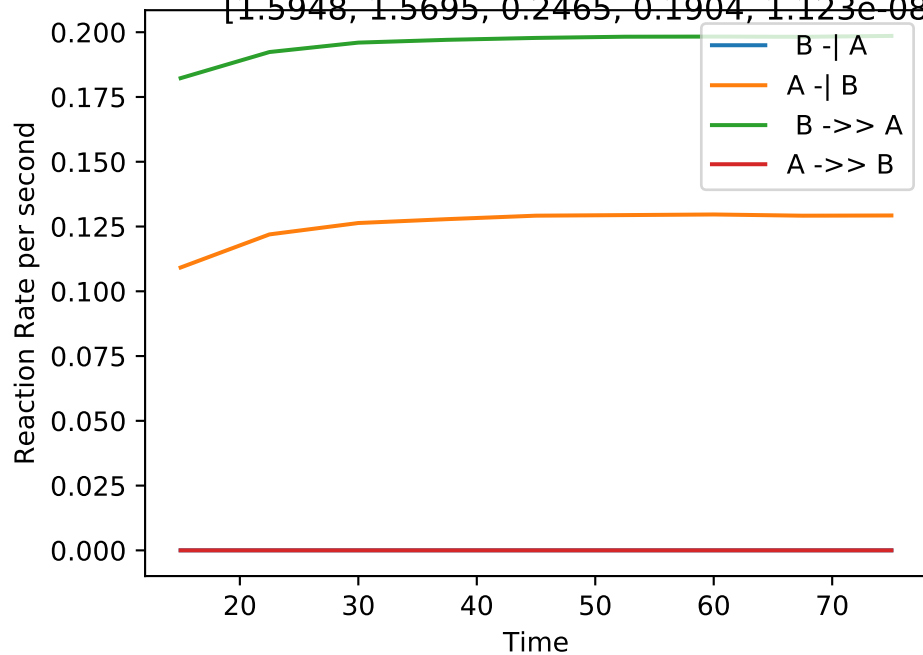
Double_up | MB-LLS Double_up(#213):

[1.9974, 0.6372, 0.2947, 0.2040, 4.656e-08, 0.0006233, 0.0091, 0.2206, 0.1779, 0.0218]



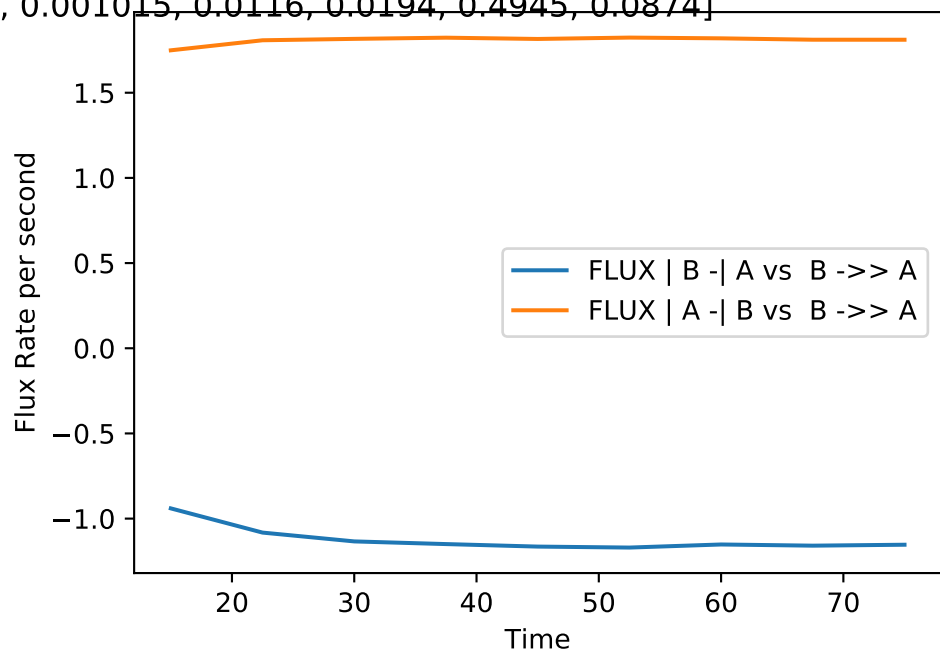
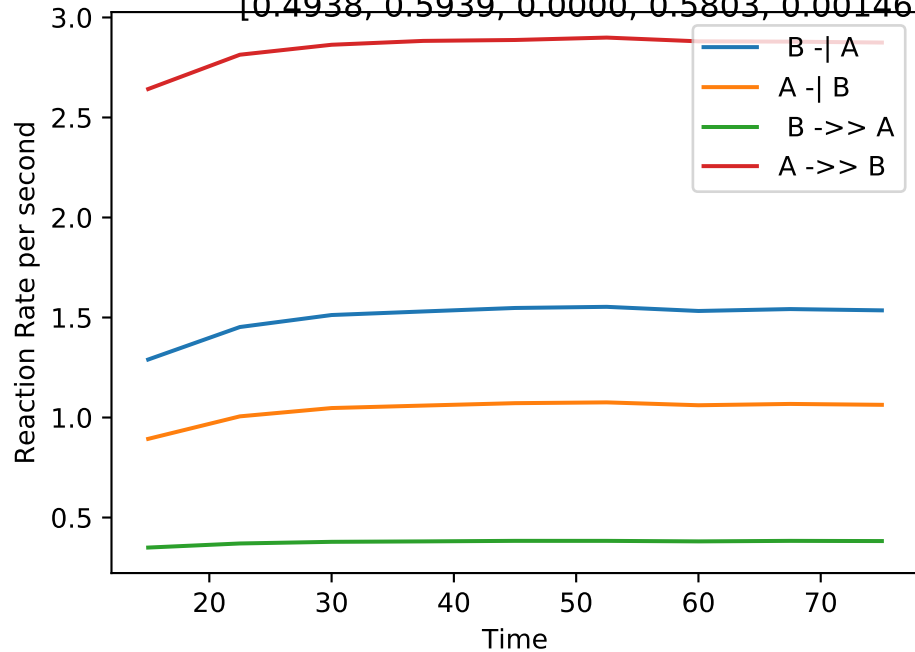
Double_up | MB-LLS Double_up(#214):

[1.5948, 1.5695, 0.2465, 0.1904, 1.123e-08, 0.0001223, 0.0060, 0.1882, 0.1437, 0.0000]



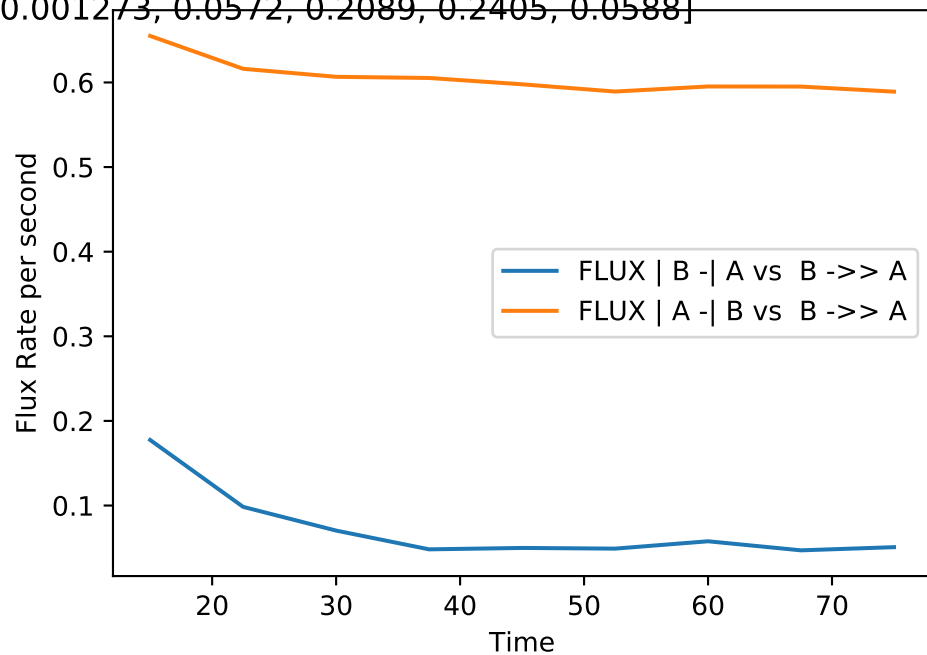
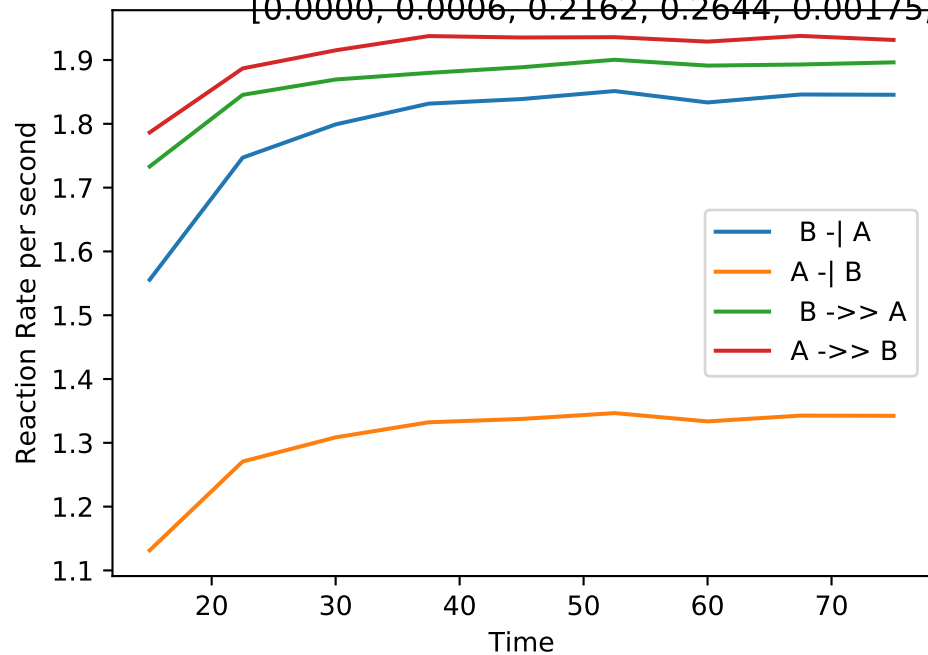
Double_up | MB-LLS Double_up(#215):

[0.4938, 0.5939, 0.0000, 0.5803, 0.001465, 0.001015, 0.0116, 0.0194, 0.4945, 0.0874]



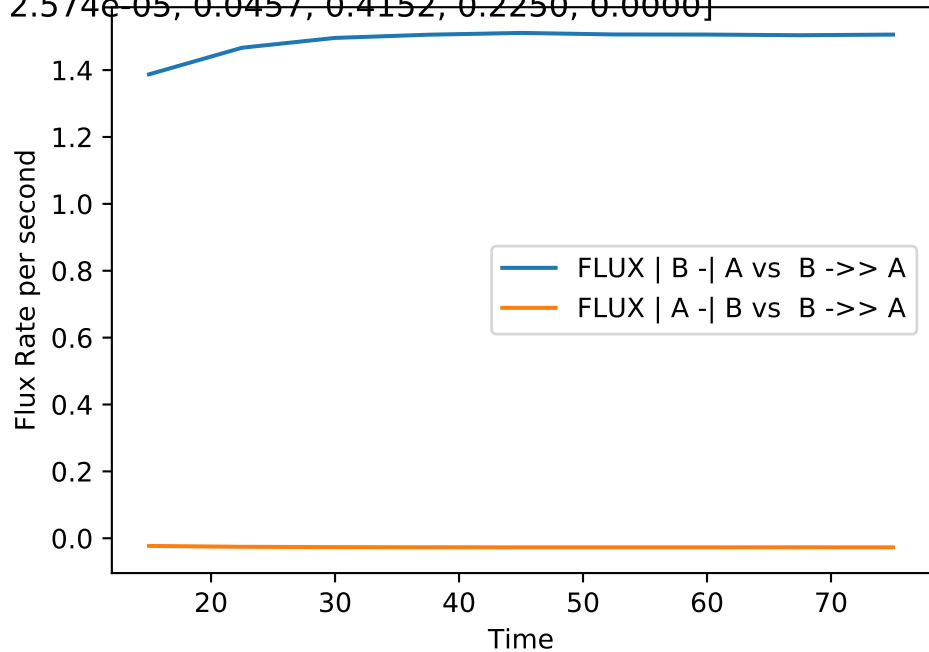
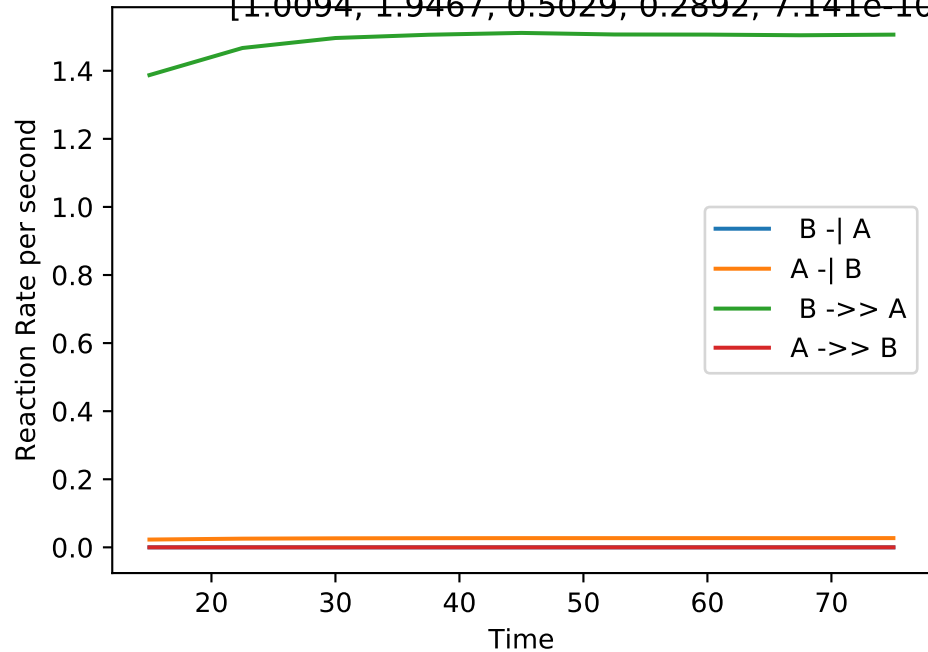
Double_up | MB-LLS Double_up(#216):

[0.0000, 0.0006, 0.2162, 0.2644, 0.00175, 0.001273, 0.0572, 0.2089, 0.2405, 0.0588]



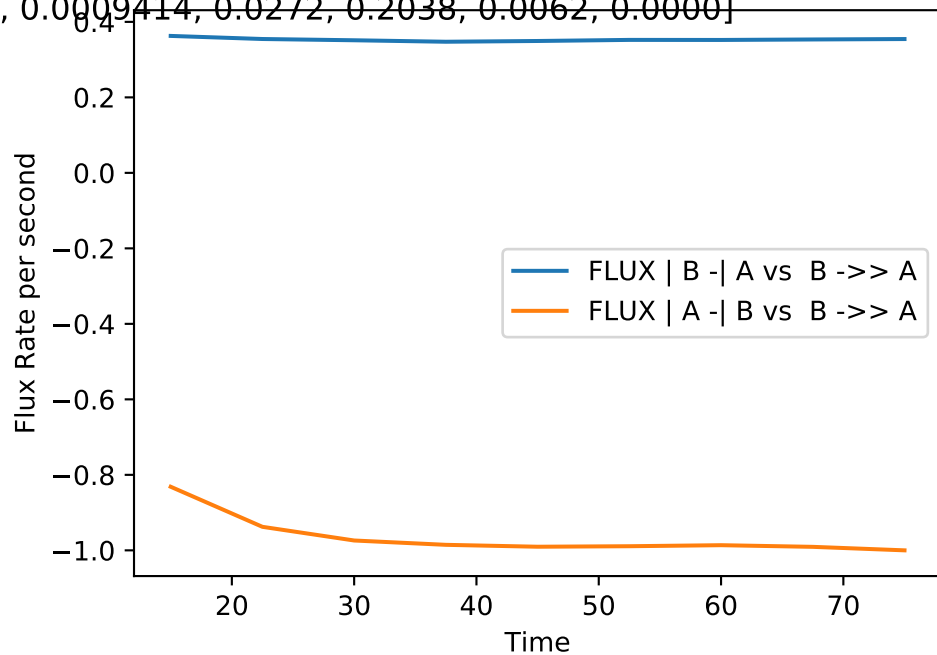
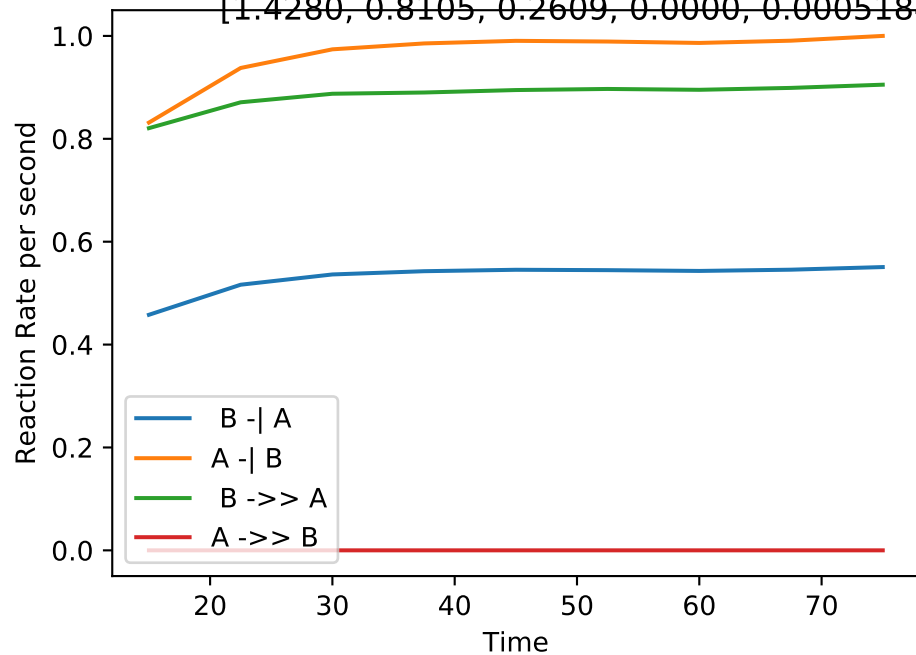
Double_up | MB-LLS Double_up(#217):

[1.0094, 1.9467, 0.5029, 0.2892, 7.141e-10, 2.574e-05, 0.0457, 0.4152, 0.2250, 0.0000]



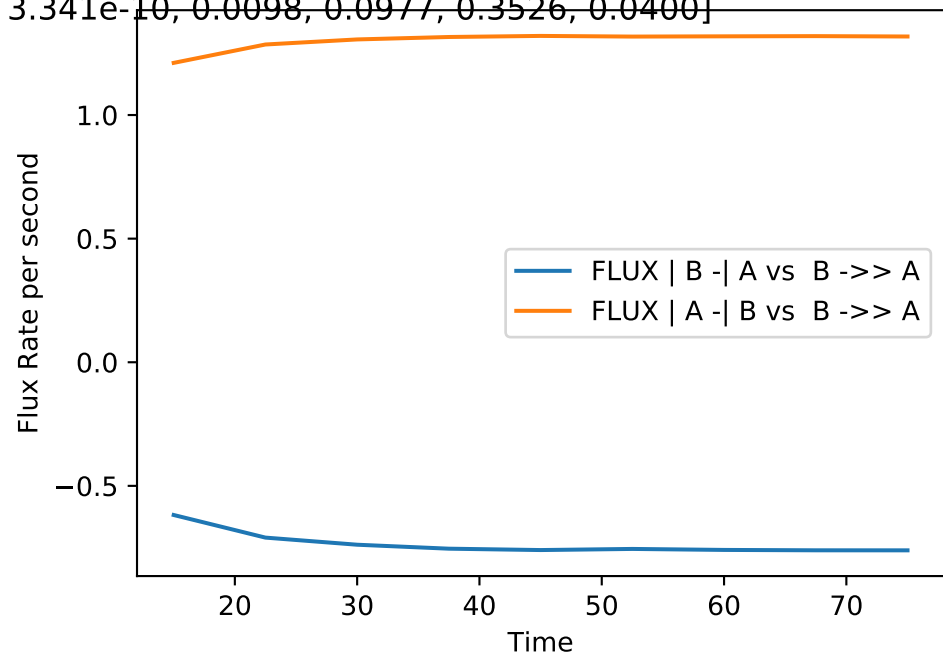
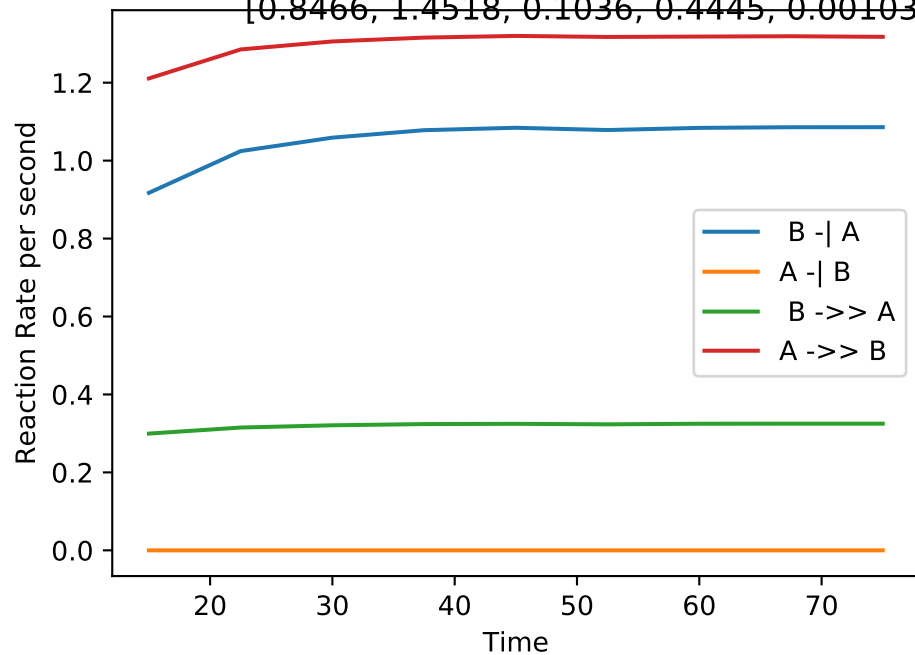
Double_up | MB-LLS Double_up(#218):

[1.4280, 0.8105, 0.2609, 0.0000, 0.0005184, 0.0009414, 0.0272, 0.2038, 0.0062, 0.0000]



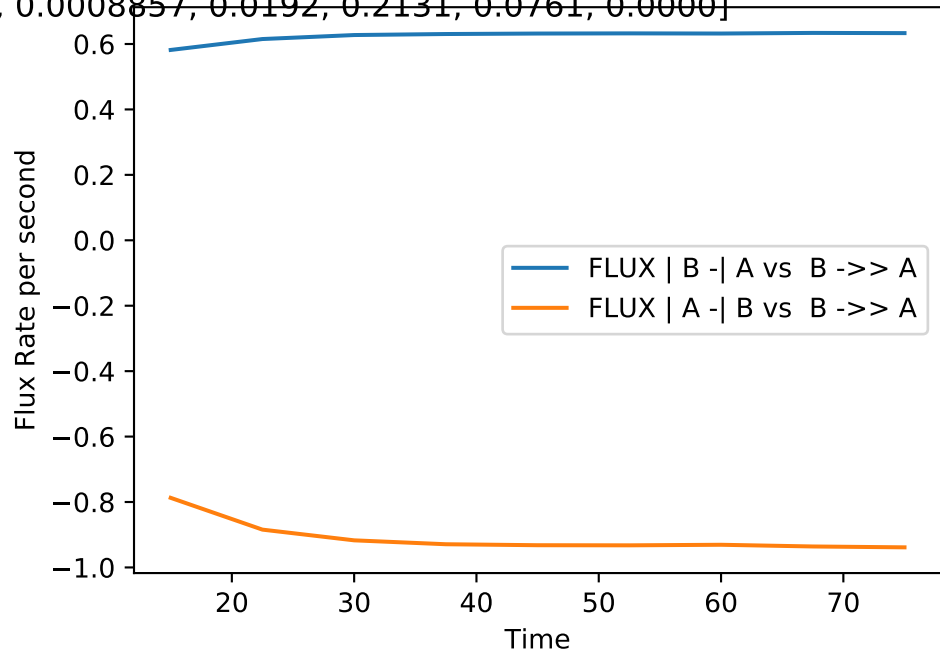
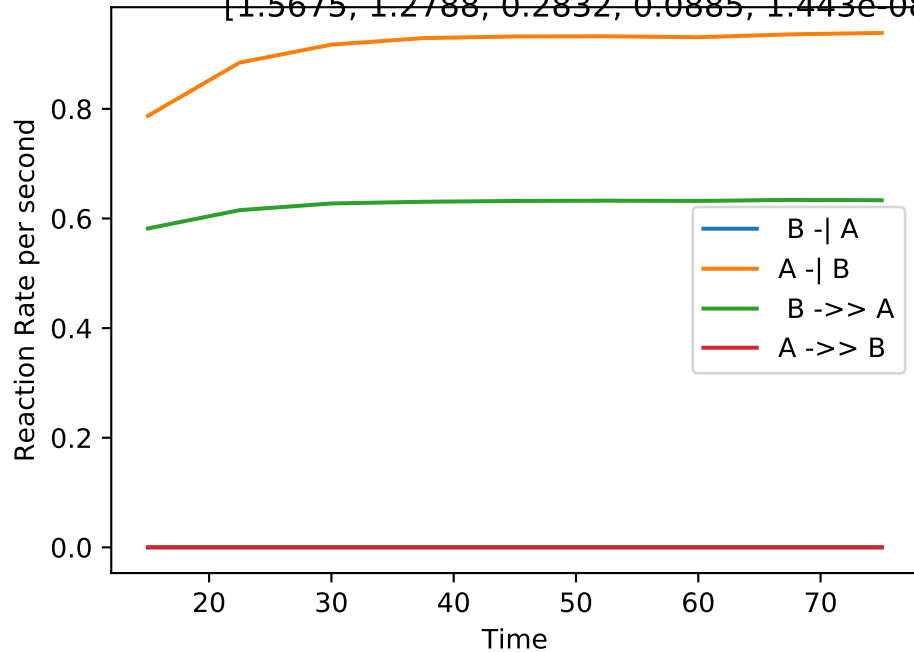
Double_up | MB-LLS Double_up(#219):

[0.8466, 1.4518, 0.1036, 0.4445, 0.00103, 3.341e-10, 0.0098, 0.0977, 0.3526, 0.0400]



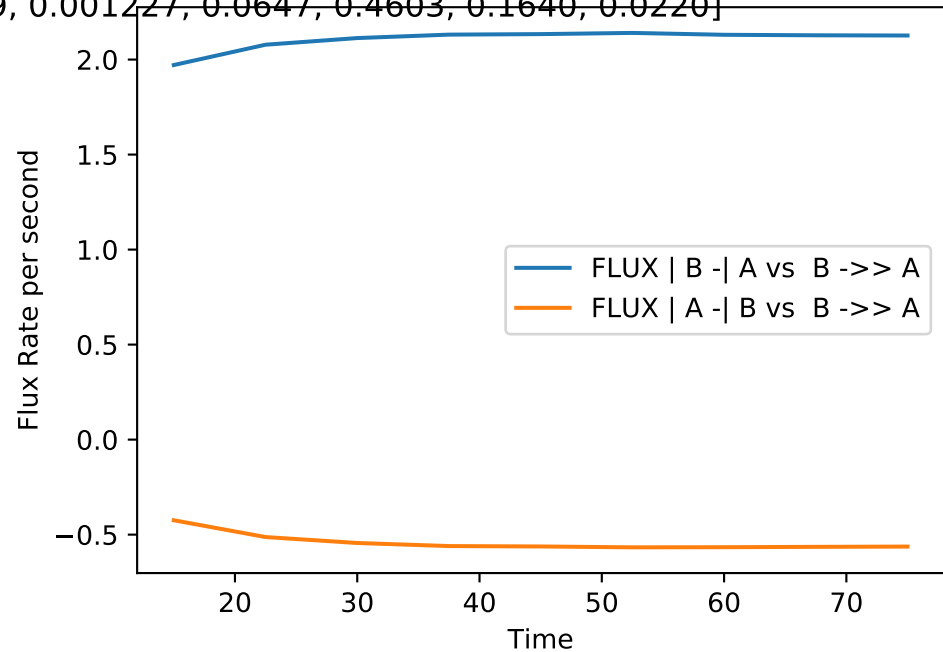
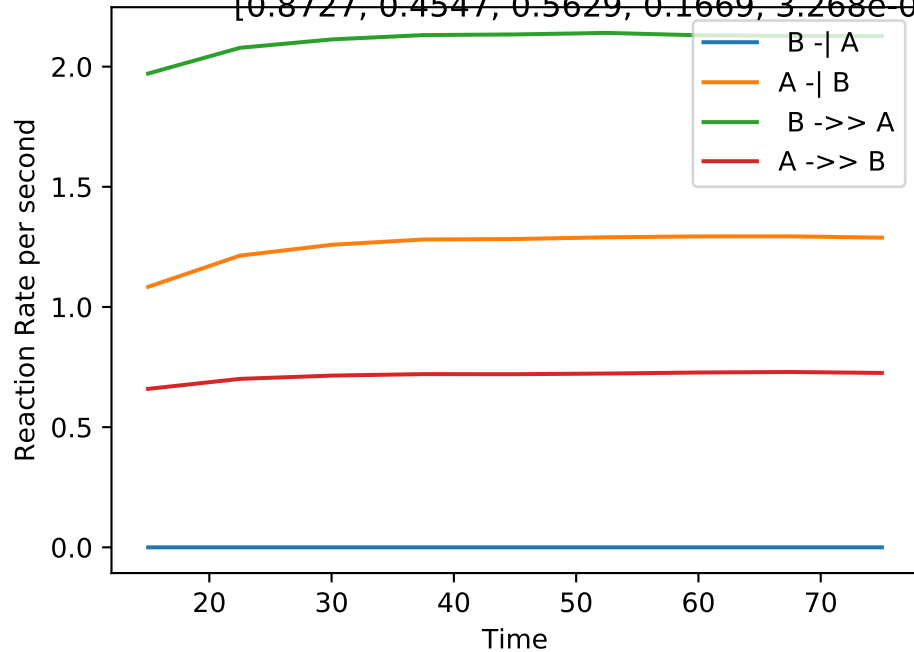
Double_up | MB-LLS Double_up(#220):

[1.5675, 1.2788, 0.2832, 0.0885, 1.443e-08, 0.0008857, 0.0192, 0.2131, 0.0761, 0.0000]



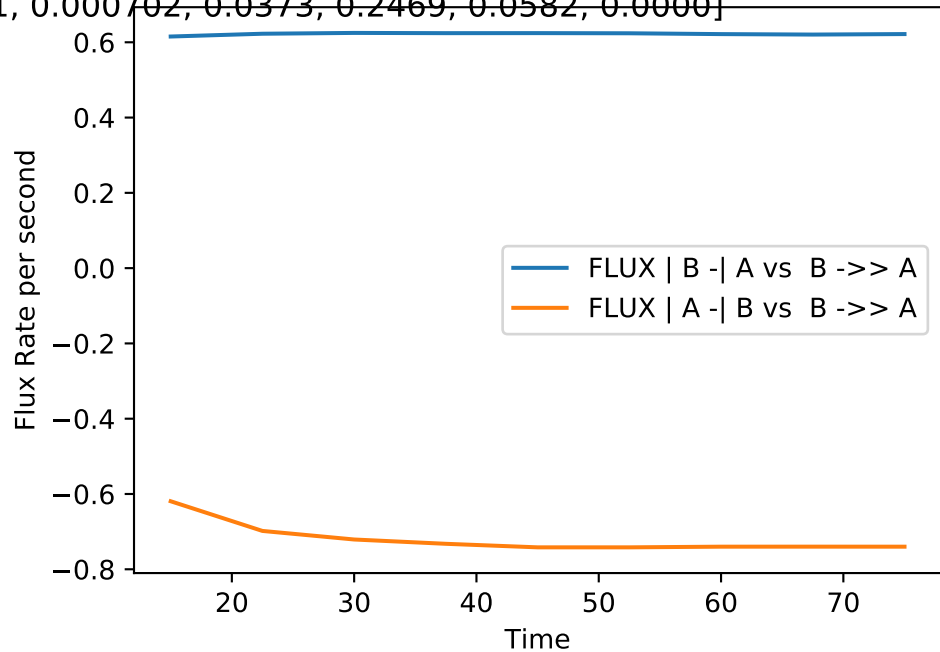
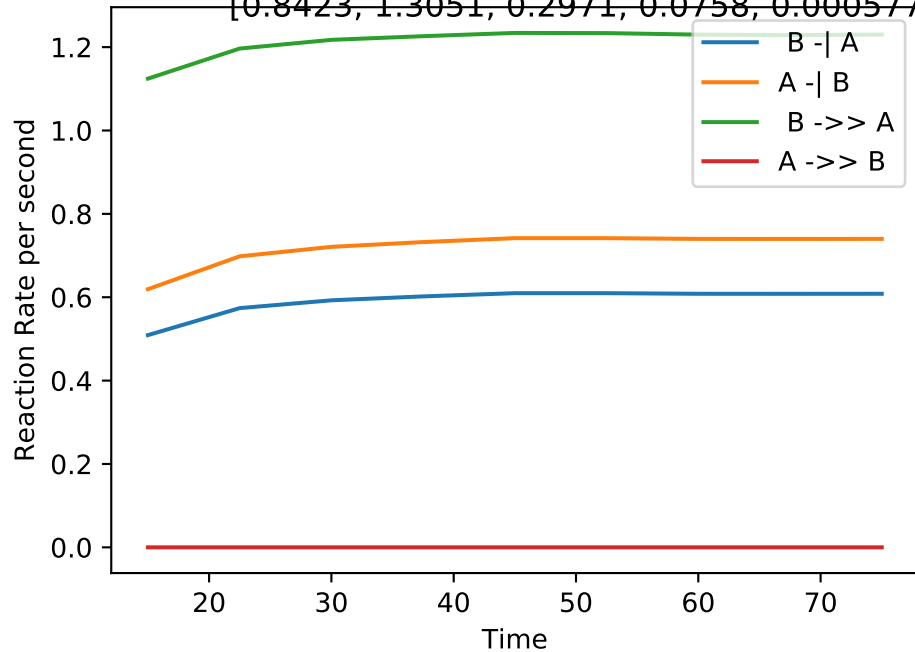
Double_up | MB-LLS Double_up(#221):

[0.8727, 0.4547, 0.5629, 0.1669, 3.268e-09, 0.001227, 0.0647, 0.4603, 0.1640, 0.0220]



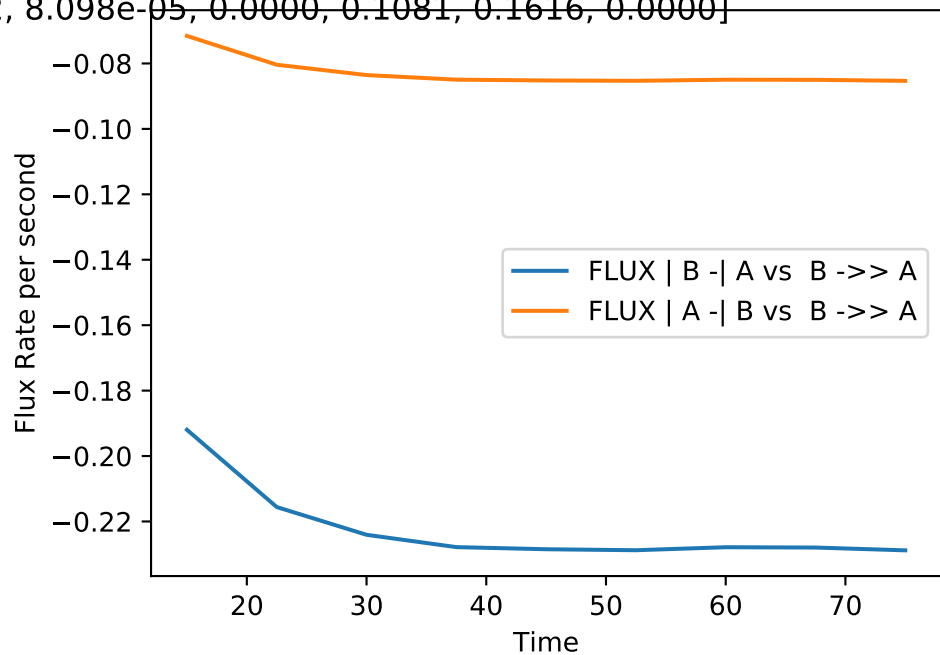
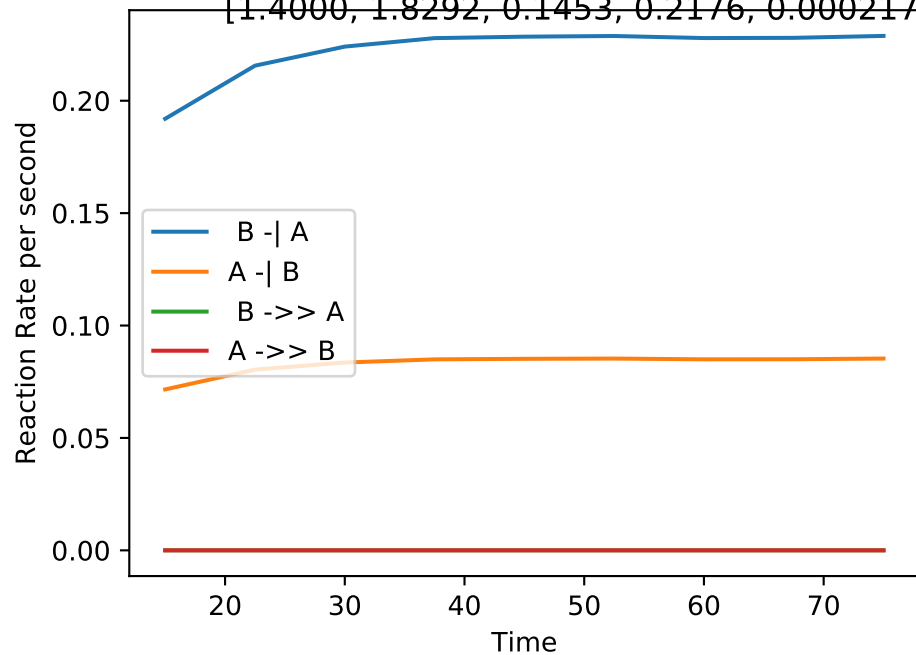
Double_up | MB-LLS Double_up(#222):

[0.8423, 1.3051, 0.2971, 0.0758, 0.0005771, 0.000702, 0.0373, 0.2469, 0.0582, 0.0000]



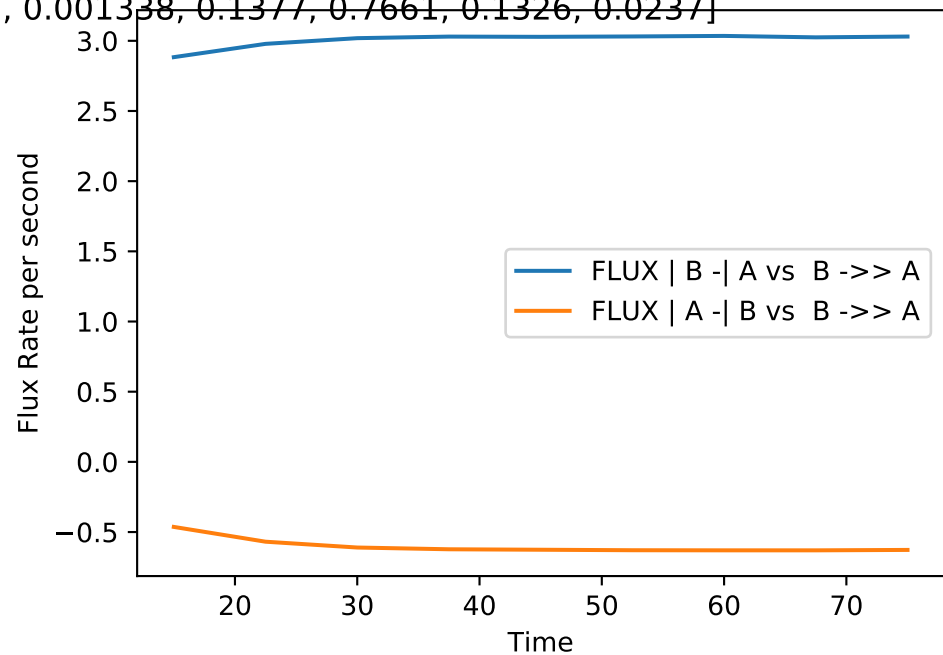
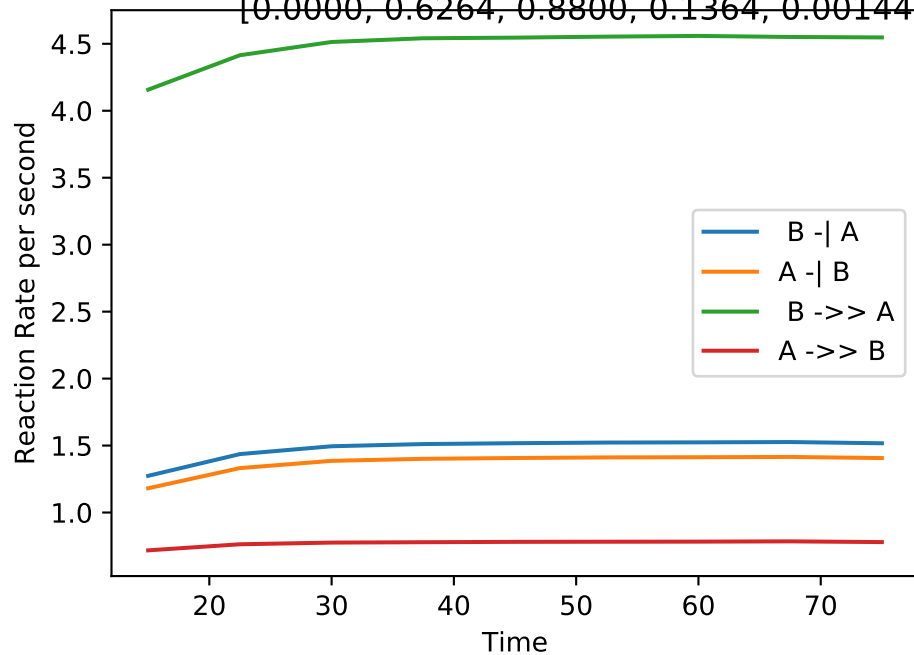
Double_up | MB-LLS Double_up(#223):

[1.4000, 1.8292, 0.1453, 0.2176, 0.0002172, 8.098e-05, 0.0000, 0.1081, 0.1616, 0.0000]



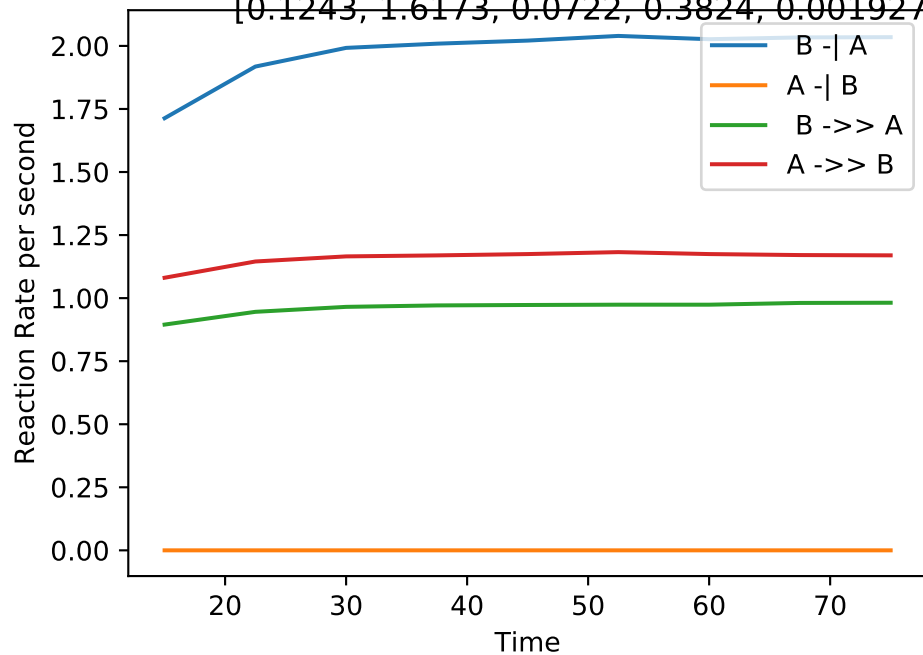
Double_up | MB-LLS Double_up(#224):

[0.0000, 0.6264, 0.8800, 0.1364, 0.001443, 0.001338, 0.1377, 0.7661, 0.1326, 0.0237]

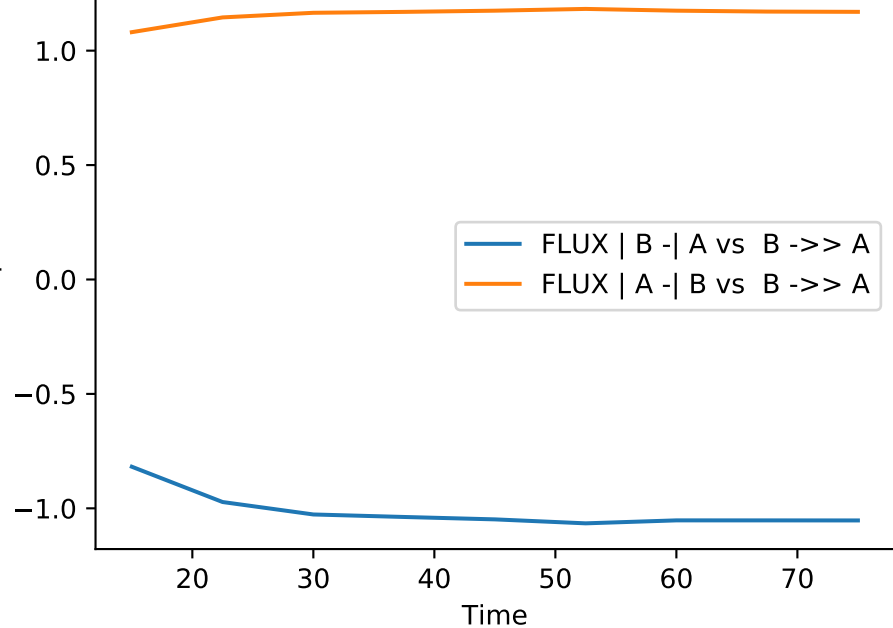


Double_up | MB-LLS Double_up(#225):

[0.1243, 1.6173, 0.0722, 0.3824, 0.001927, 2.513e-10, 0.0295, 0.0964, 0.2931, 0.0357]

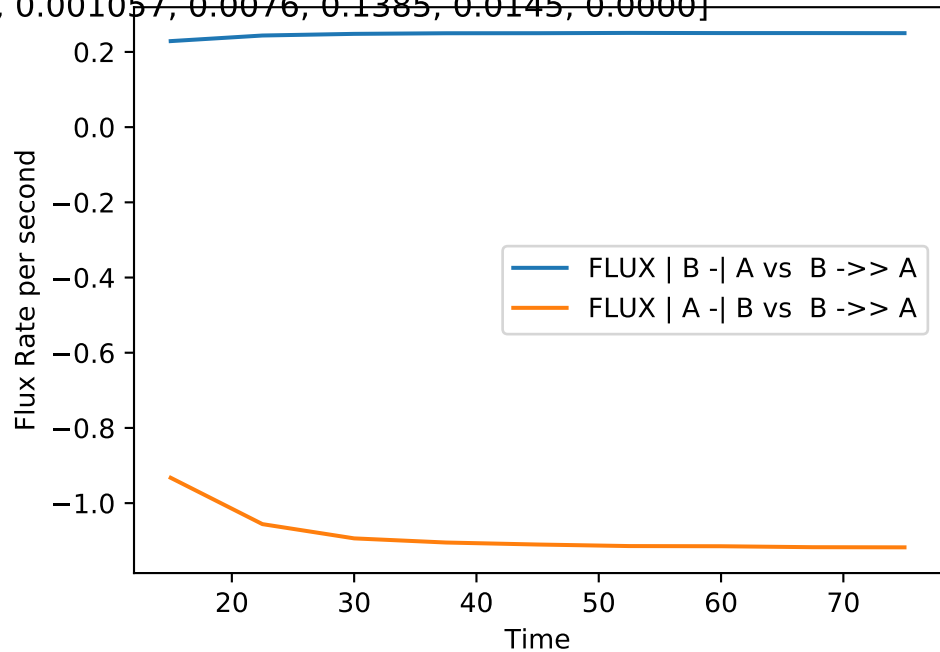
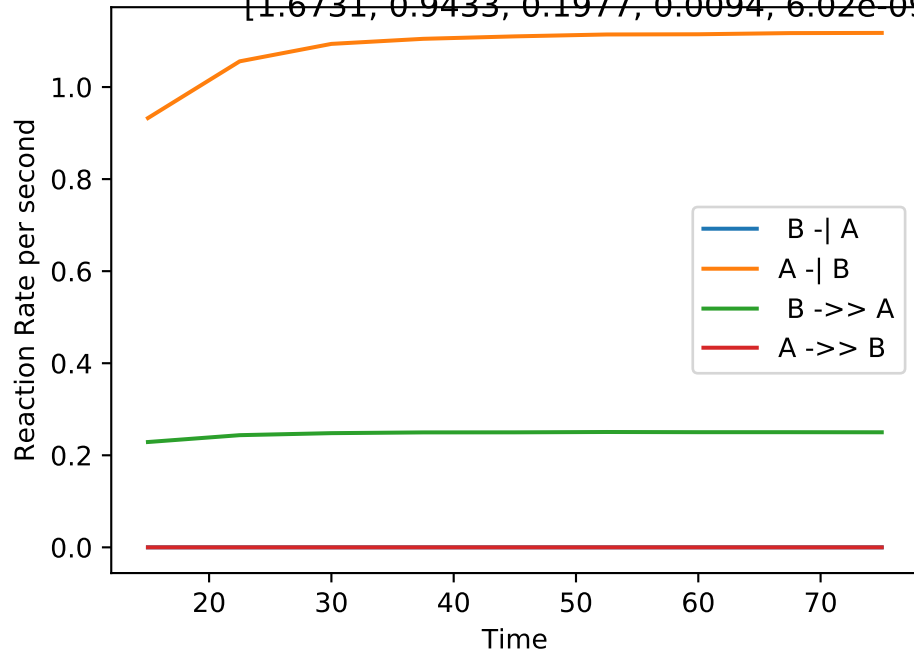


Flux Rate per second



Double_up | MB-LLS Double_up(#226):

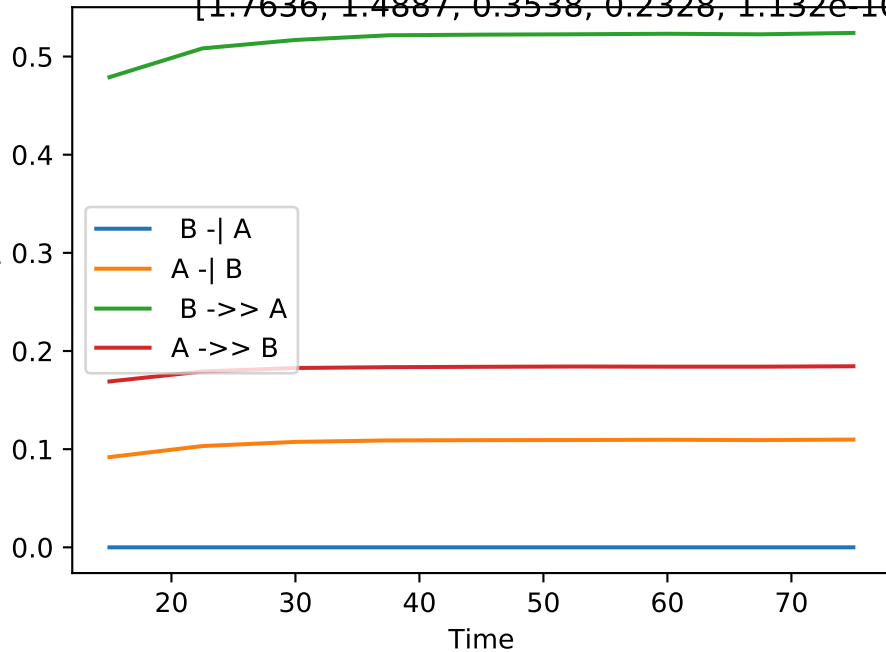
[1.6731, 0.9433, 0.1977, 0.0094, 6.02e-09, 0.001057, 0.0076, 0.1385, 0.0145, 0.0000]



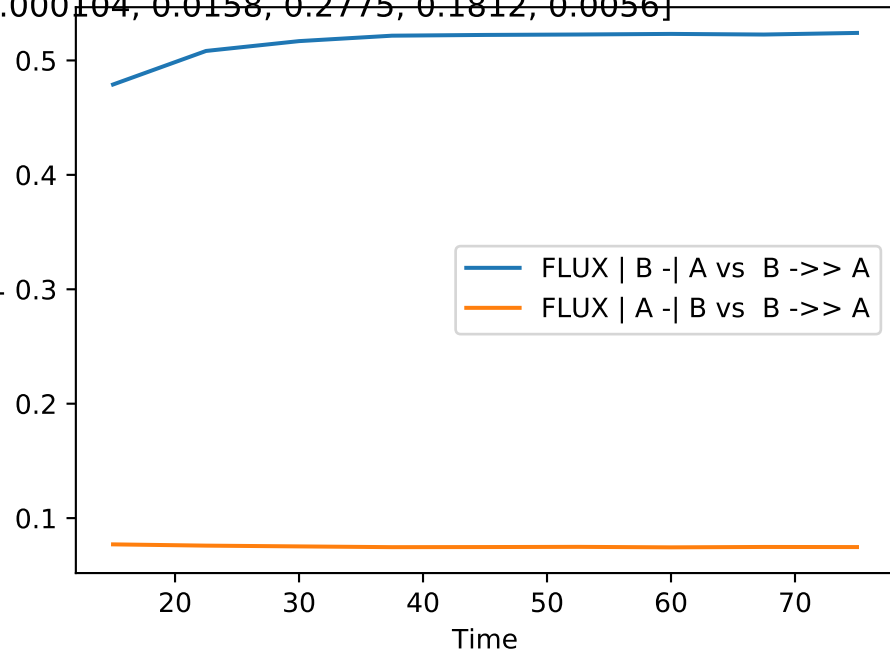
Double_up | MB-LLS Double_up(#227):

[1.7636, 1.4887, 0.3538, 0.2328, 1.132e-10, 0.000104, 0.0158, 0.2775, 0.1812, 0.0056]

Reaction Rate per second

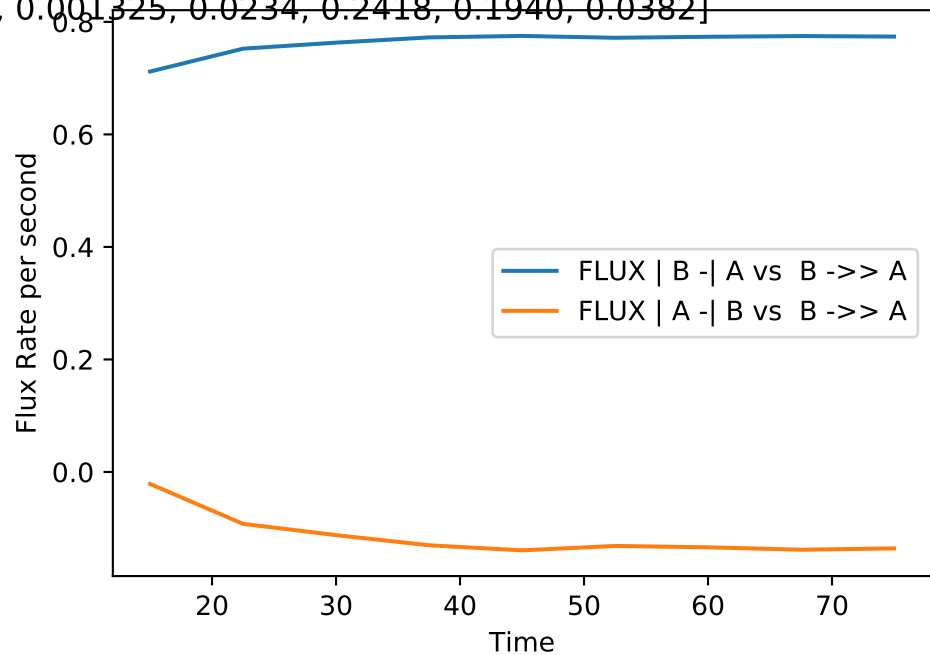
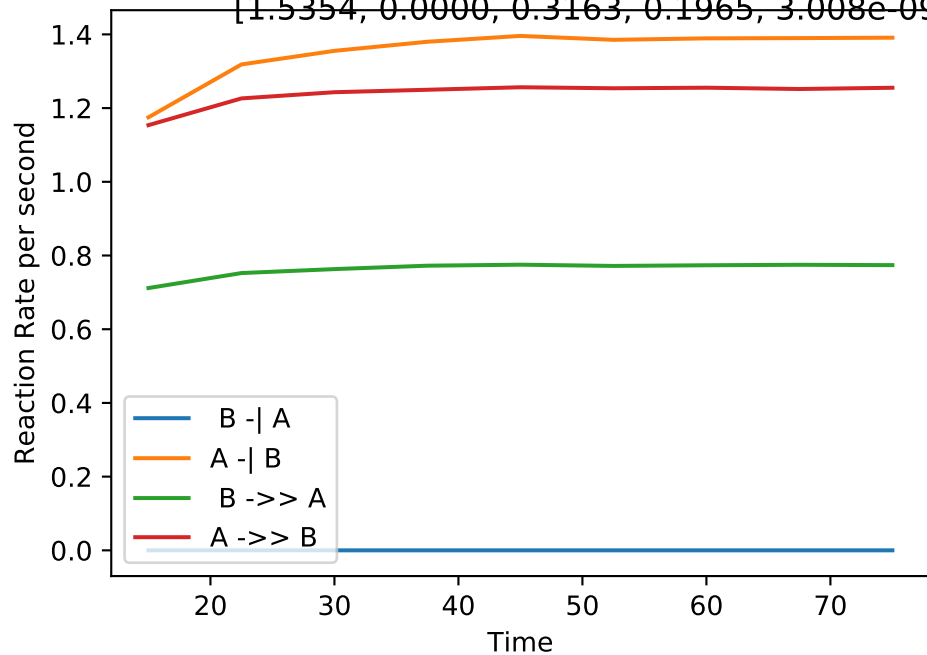


Flux Rate per second



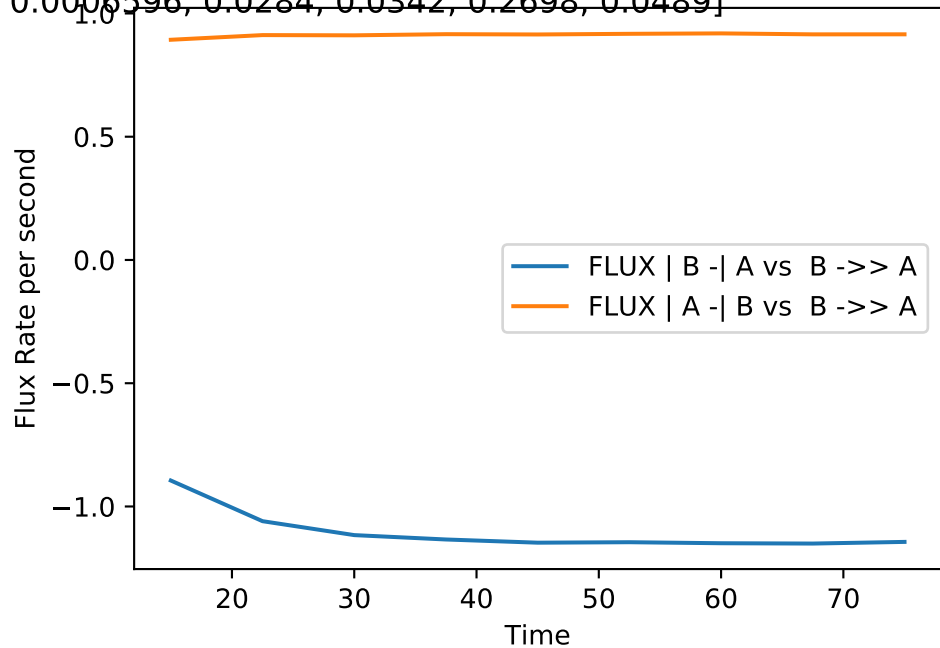
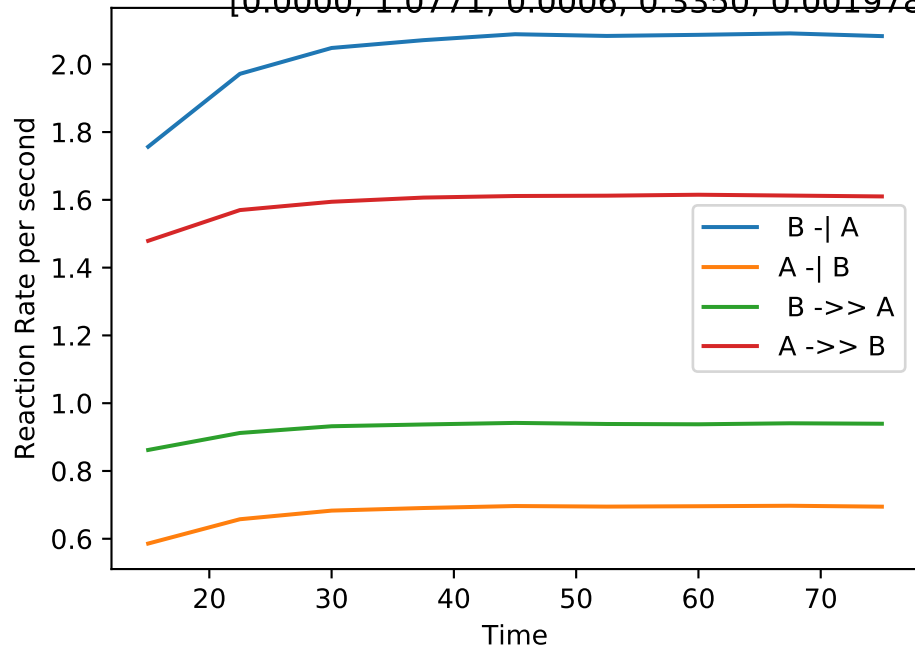
Double_up | MB-LLS Double_up(#228):

[1.5354, 0.0000, 0.3163, 0.1965, 3.008e-09, 0.001325, 0.0234, 0.2418, 0.1940, 0.0382]



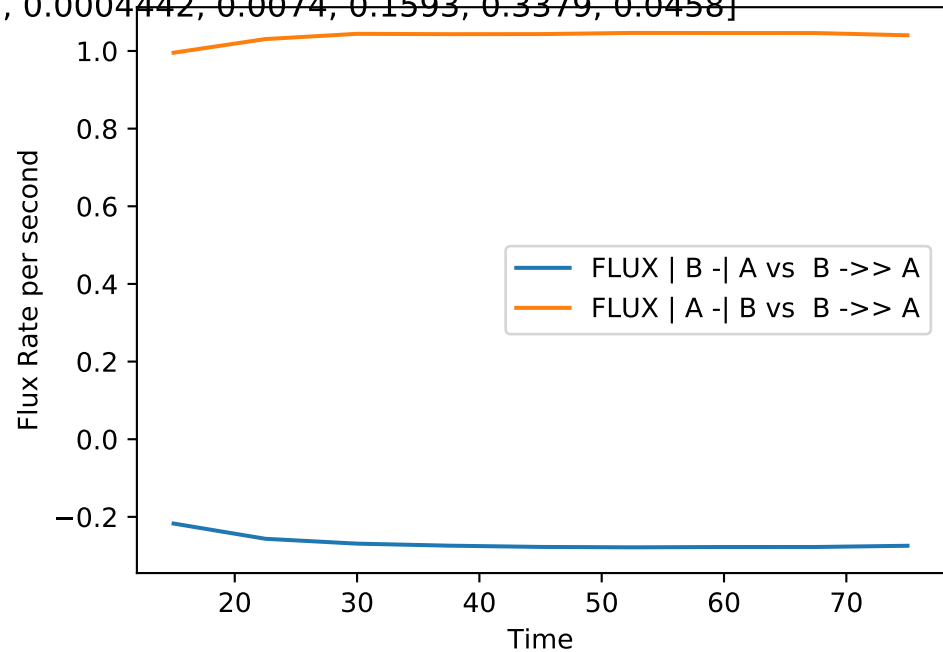
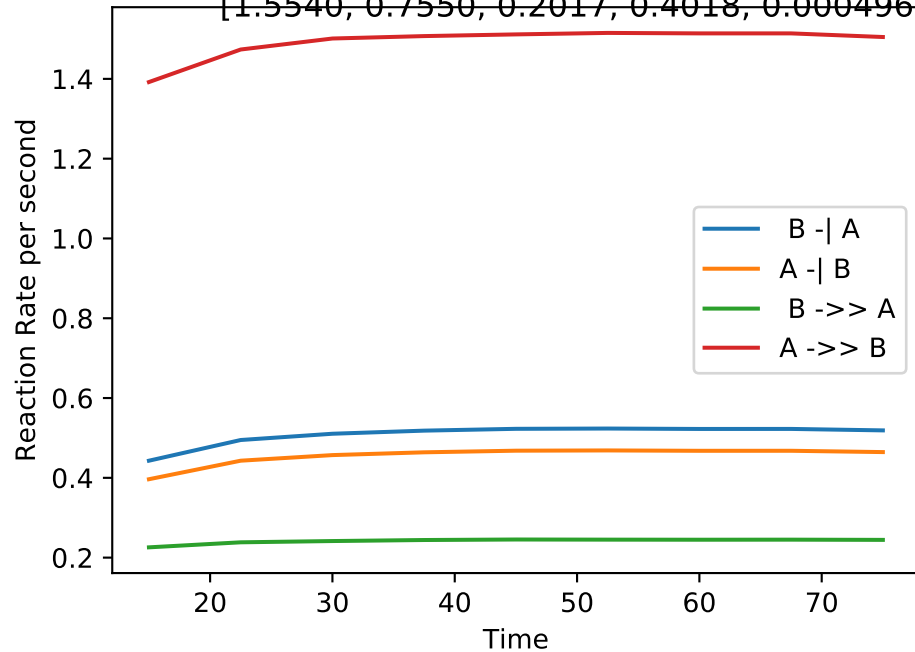
Double_up | MB-LLS Double_up(#229):

[0.0000, 1.0771, 0.0006, 0.3350, 0.001978, 0.0006596, 0.0284, 0.0342, 0.2698, 0.0489]



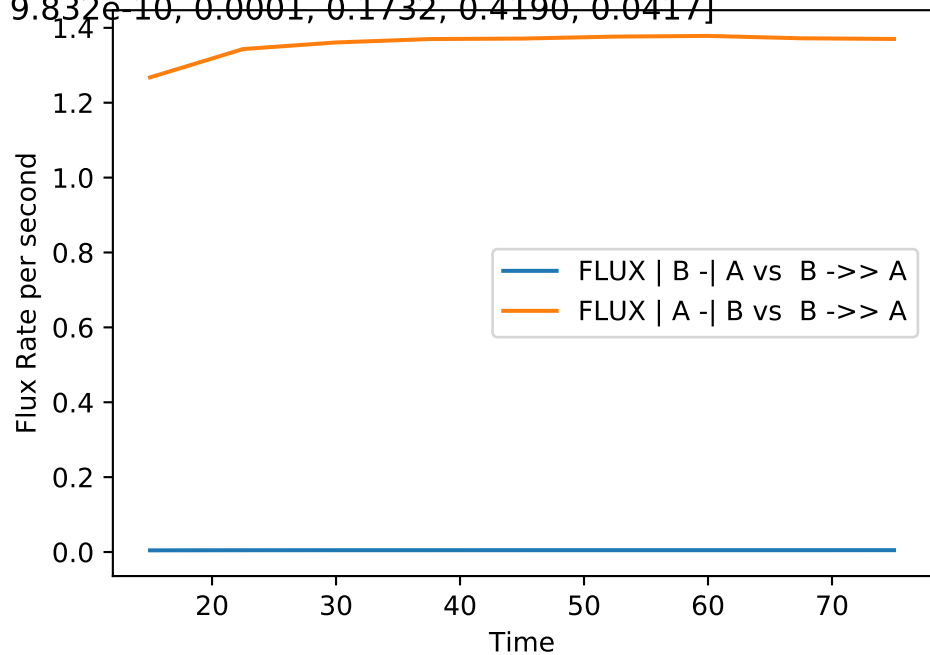
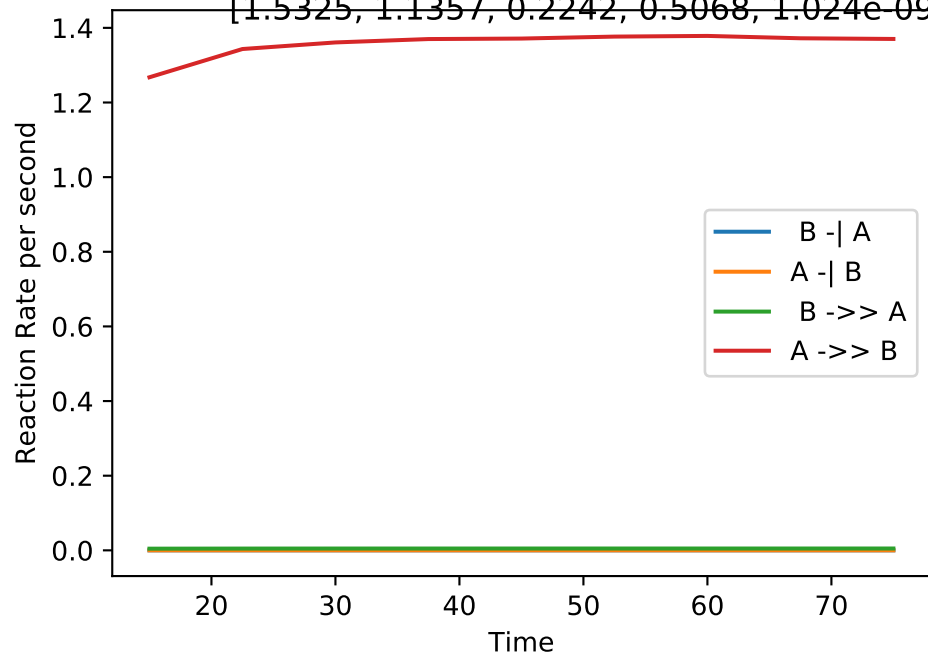
Double_up | MB-LLS Double_up(#230):

[1.5540, 0.7550, 0.2017, 0.4018, 0.0004962, 0.0004442, 0.0074, 0.1593, 0.3379, 0.0458]



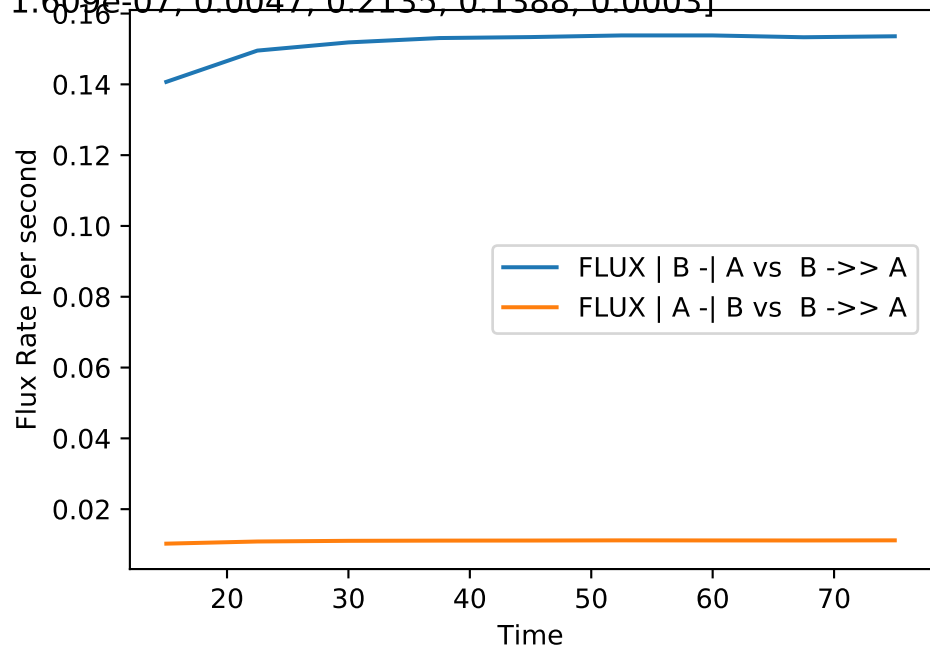
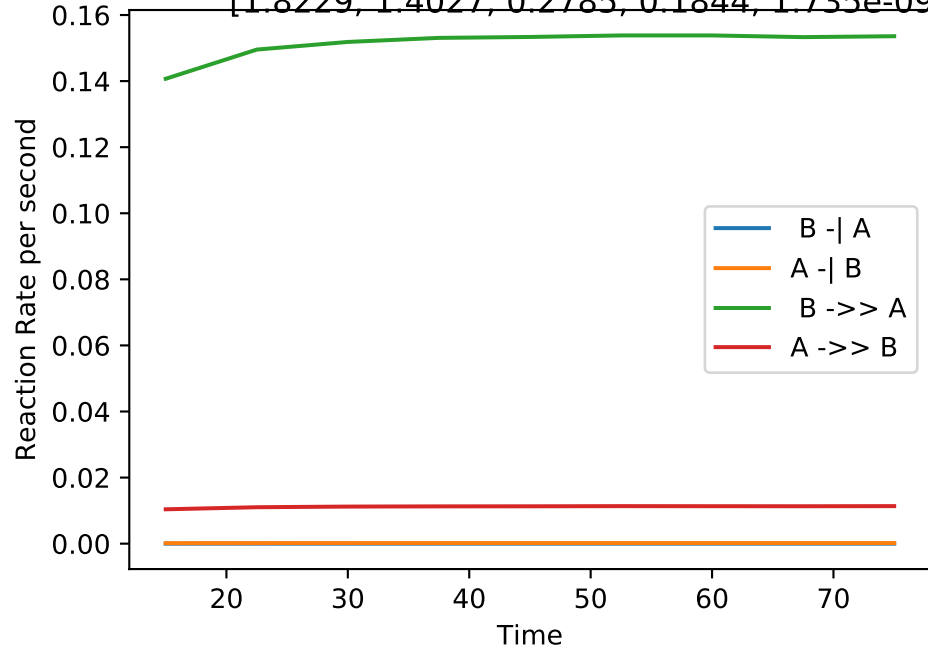
Double_up | MB-LLS Double_up(#231):

[1.5325, 1.1357, 0.2242, 0.5068, 1.024e-09, 9.832e-10, 0.0001, 0.1732, 0.4190, 0.0417]



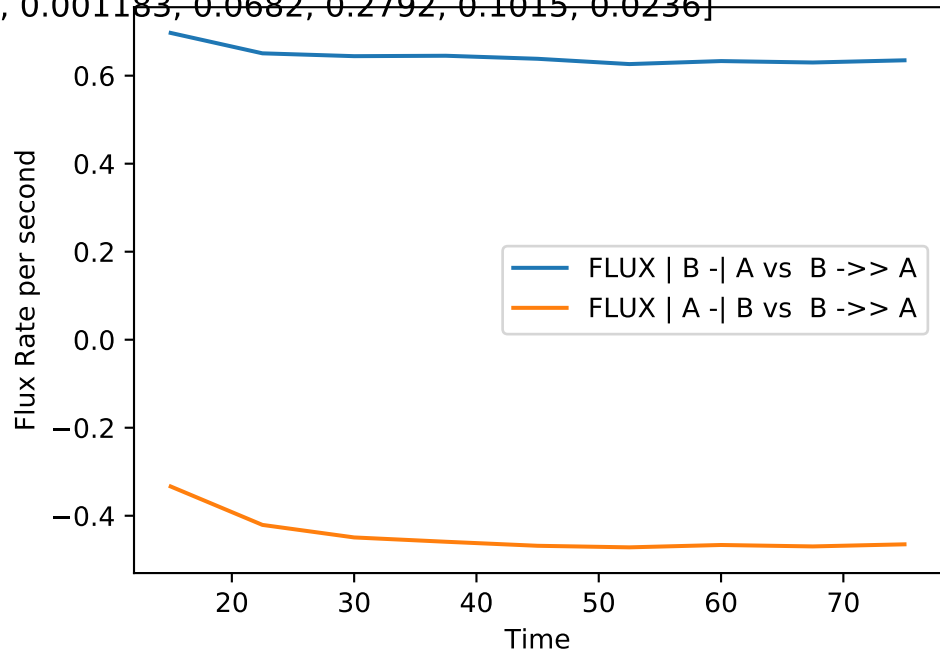
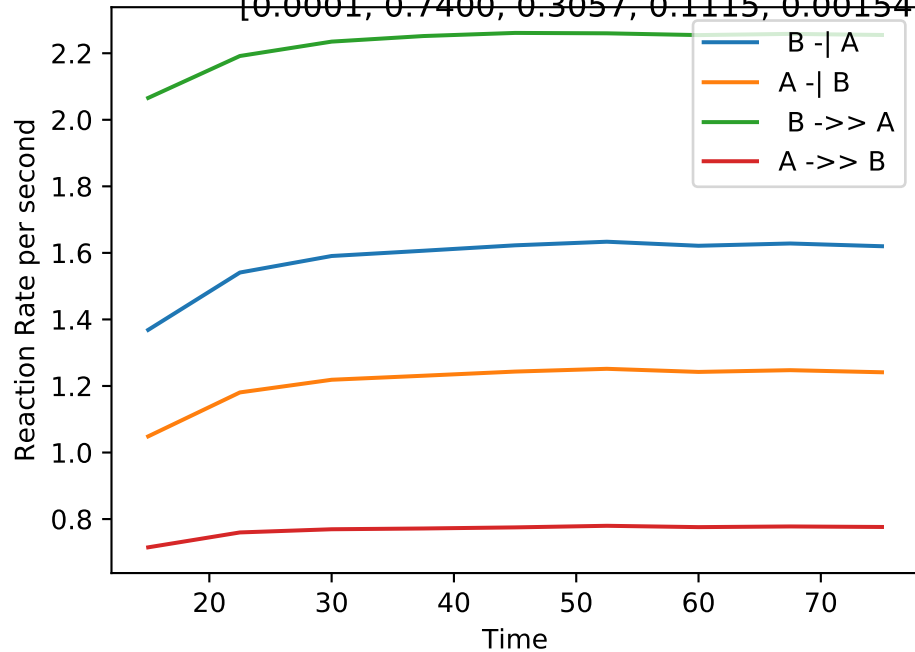
Double_up | MB-LLS Double_up(#232):

[1.8229, 1.4027, 0.2785, 0.1844, 1.735e-09, 1.609e-07, 0.0047, 0.2135, 0.1388, 0.0003]



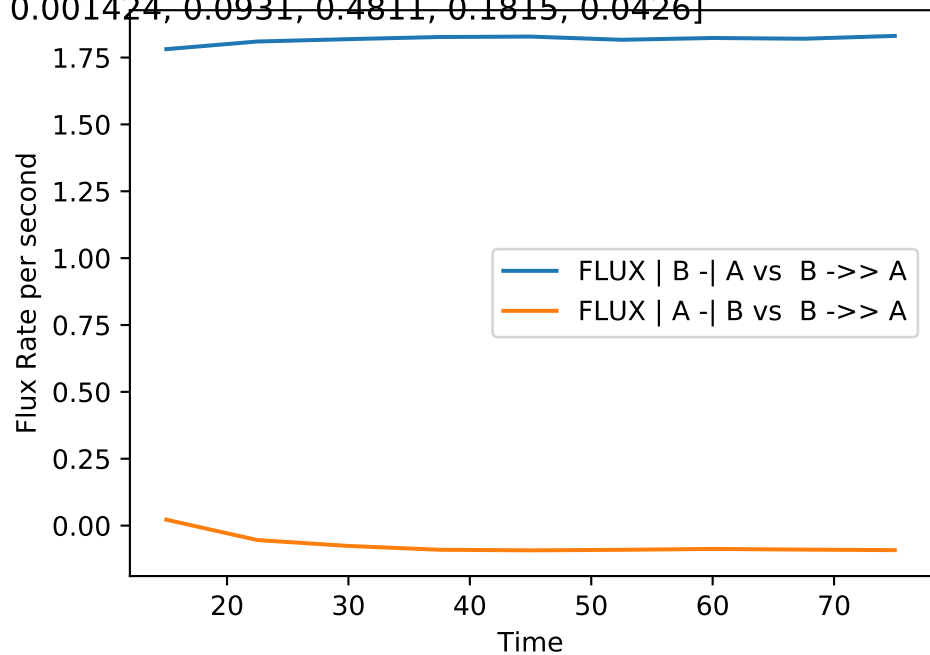
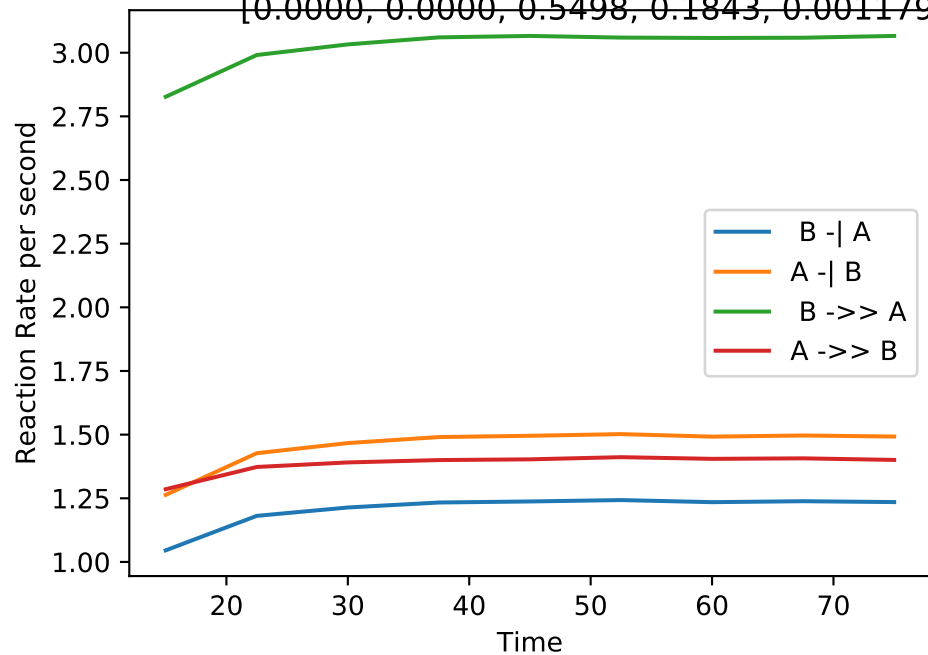
Double_up | MB-LLS Double_up(#233):

[0.0001, 0.7400, 0.3057, 0.1115, 0.001543, 0.001183, 0.0682, 0.2792, 0.1015, 0.0236]



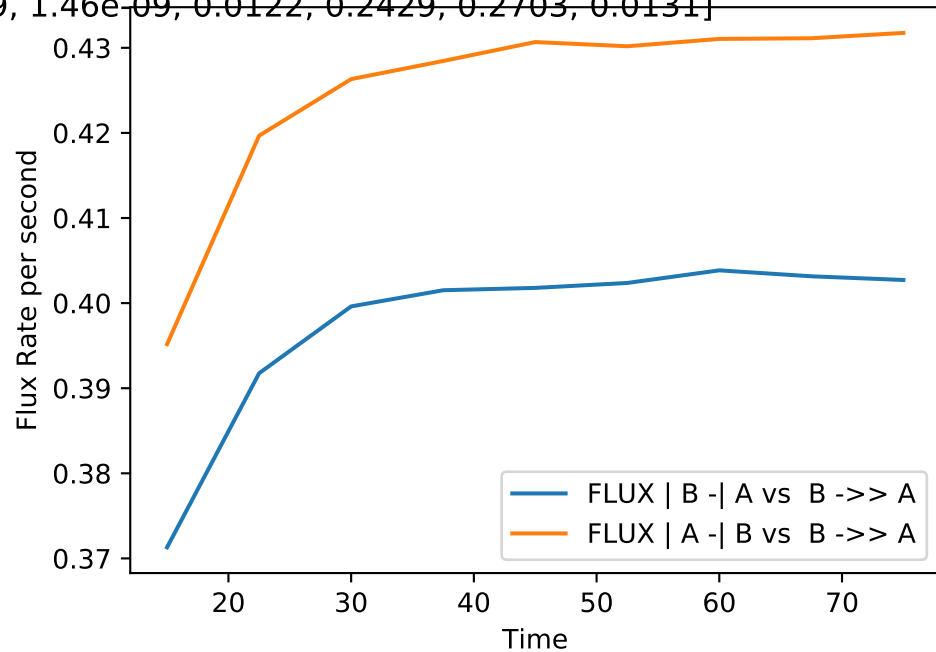
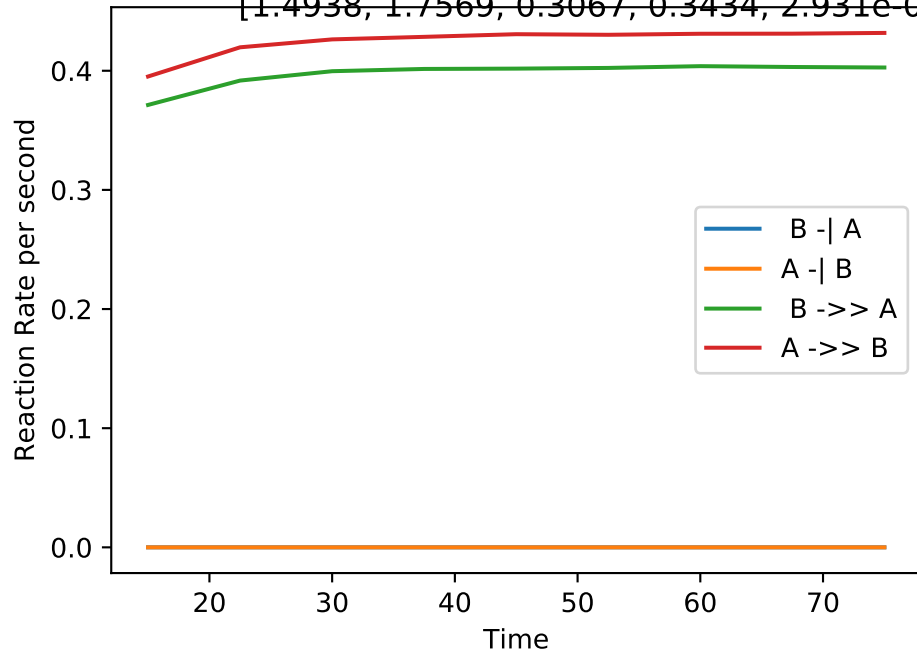
Double_up | MB-LLS Double_up(#234):

[0.0000, 0.0000, 0.5498, 0.1843, 0.001179, 0.001424, 0.0931, 0.4811, 0.1815, 0.0426]



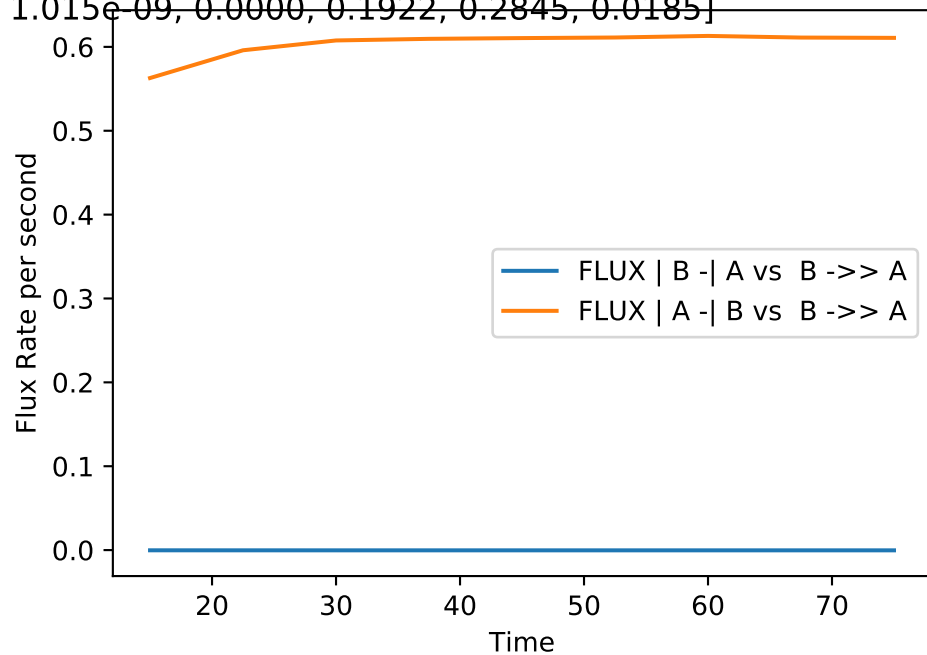
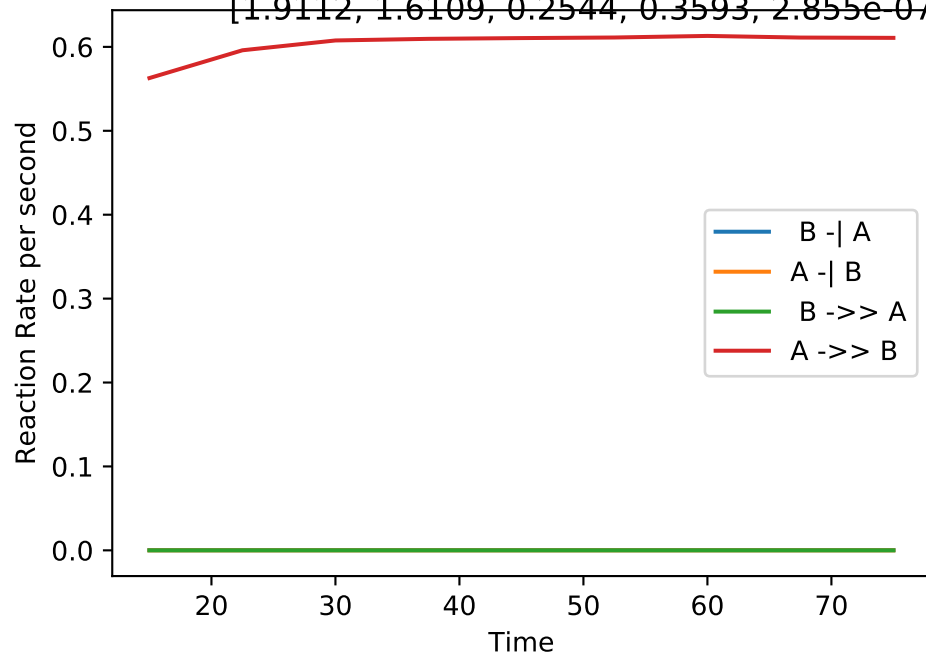
Double_up | MB-LLS Double_up(#235):

[1.4938, 1.7569, 0.3067, 0.3434, 2.931e-09, 1.46e-09, 0.0122, 0.2429, 0.2703, 0.0131]



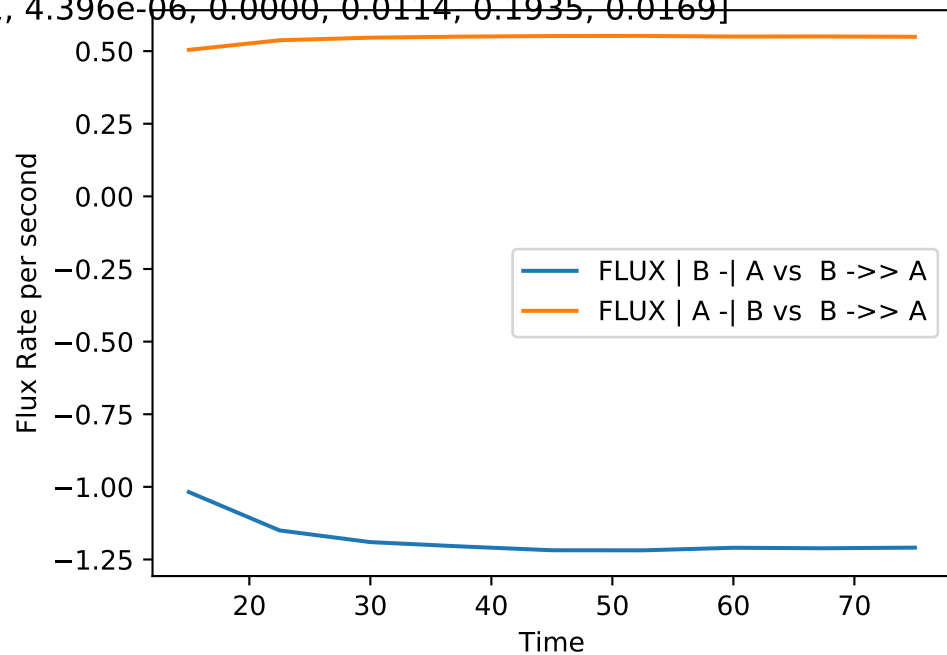
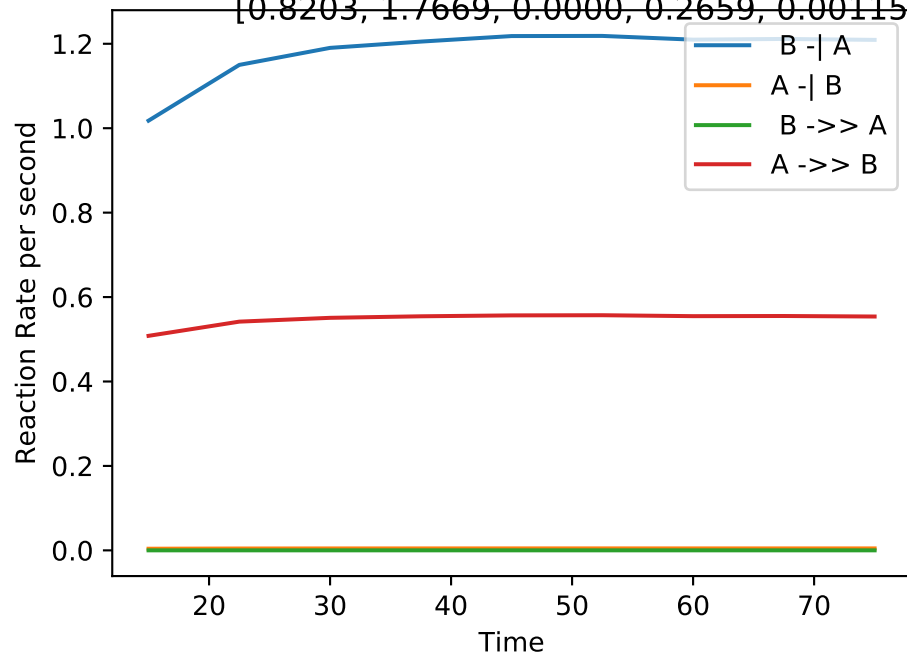
Double_up | MB-LLS Double_up(#236):

[1.9112, 1.6109, 0.2544, 0.3593, 2.855e-07, 1.015e-09, 0.0000, 0.1922, 0.2845, 0.0185]



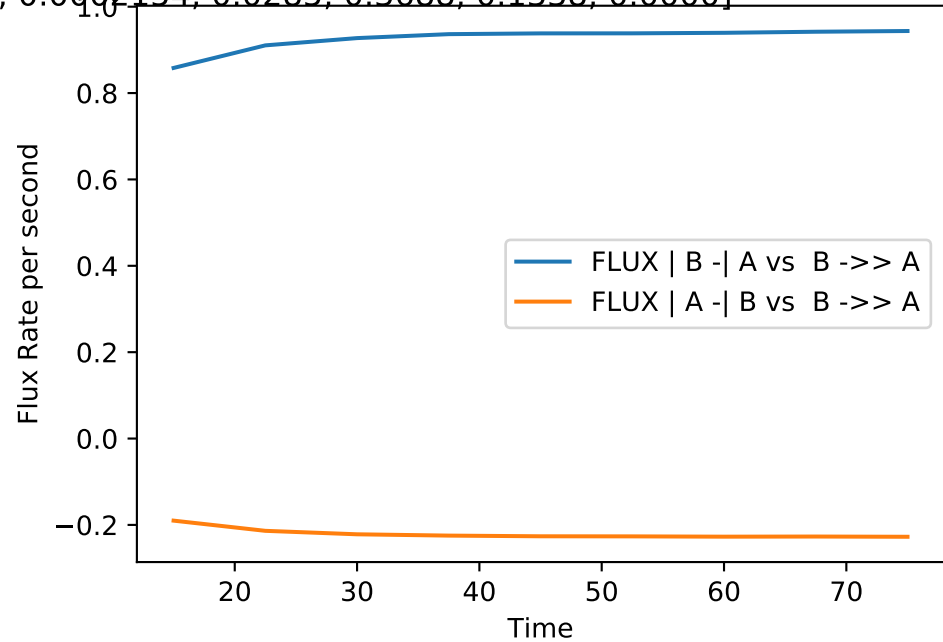
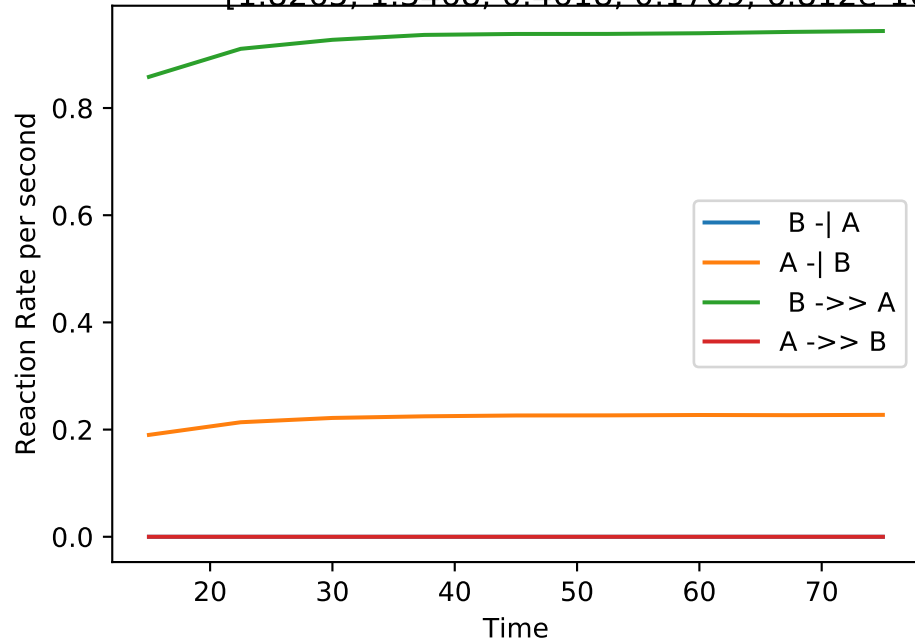
Double_up | MB-LLS Double_up(#237):

[0.8203, 1.7669, 0.0000, 0.2659, 0.001151, 4.396e-06, 0.0000, 0.0114, 0.1935, 0.0169]



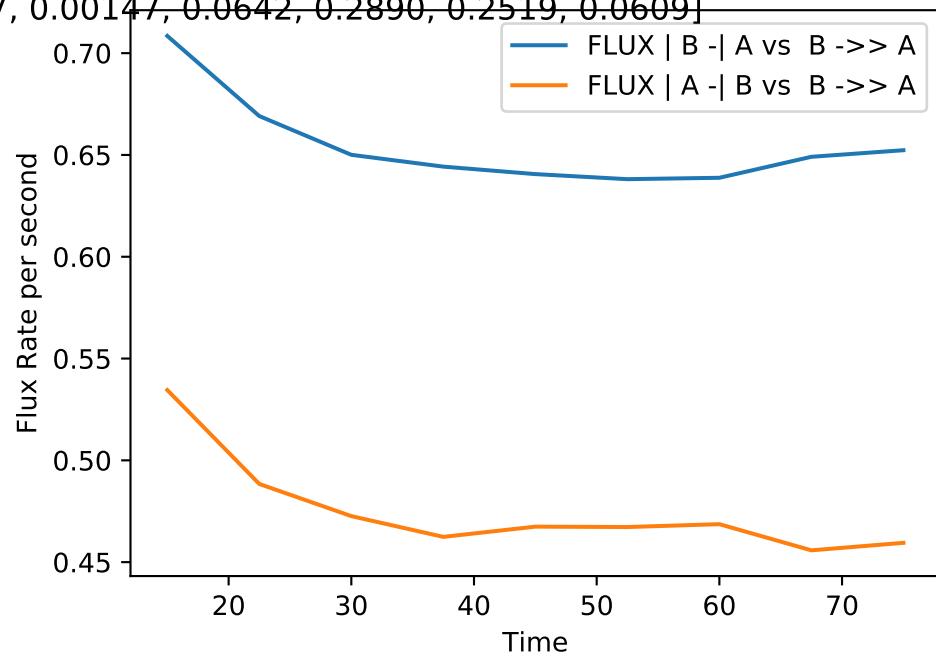
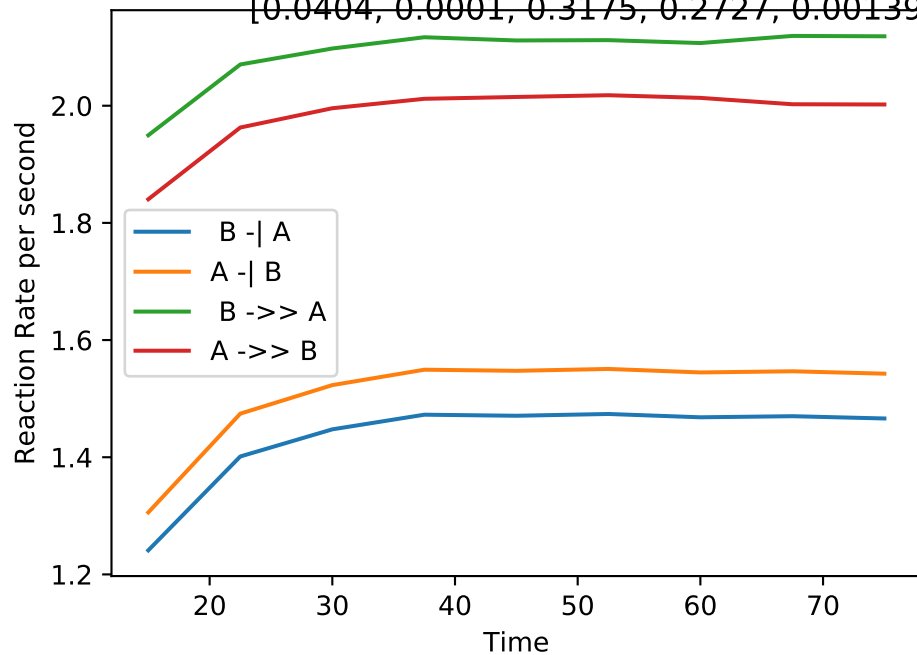
Double_up | MB-LLS Double_up(#238):

[1.8265, 1.3468, 0.4618, 0.1709, 6.812e-10, 0.0002154, 0.0285, 0.3688, 0.1338, 0.0000]



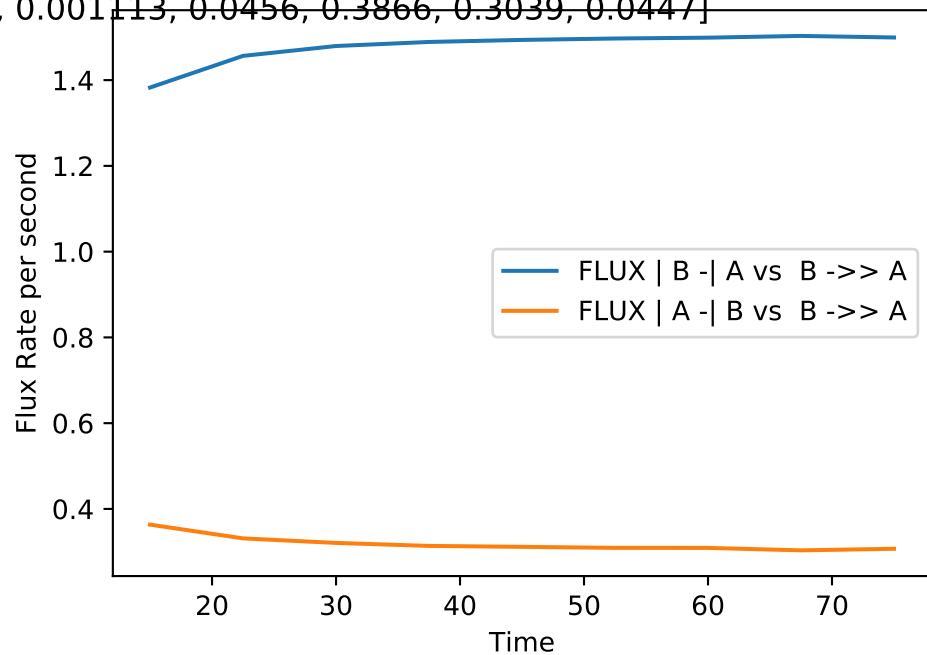
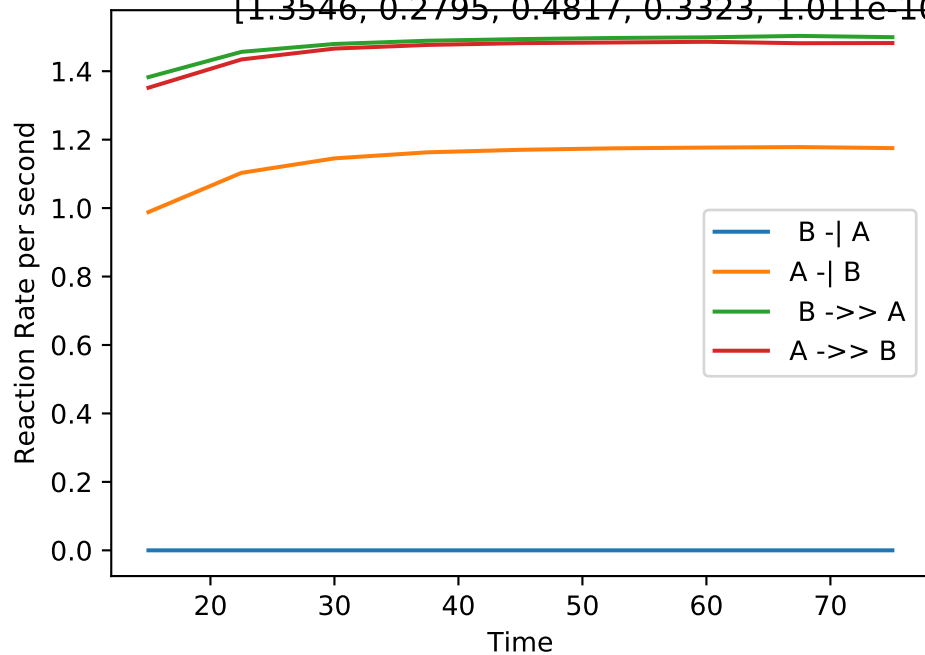
Double_up | MB-LLS Double_up(#239):

[0.0404, 0.0001, 0.3175, 0.2727, 0.001397, 0.00147, 0.0642, 0.2890, 0.2519, 0.0609]



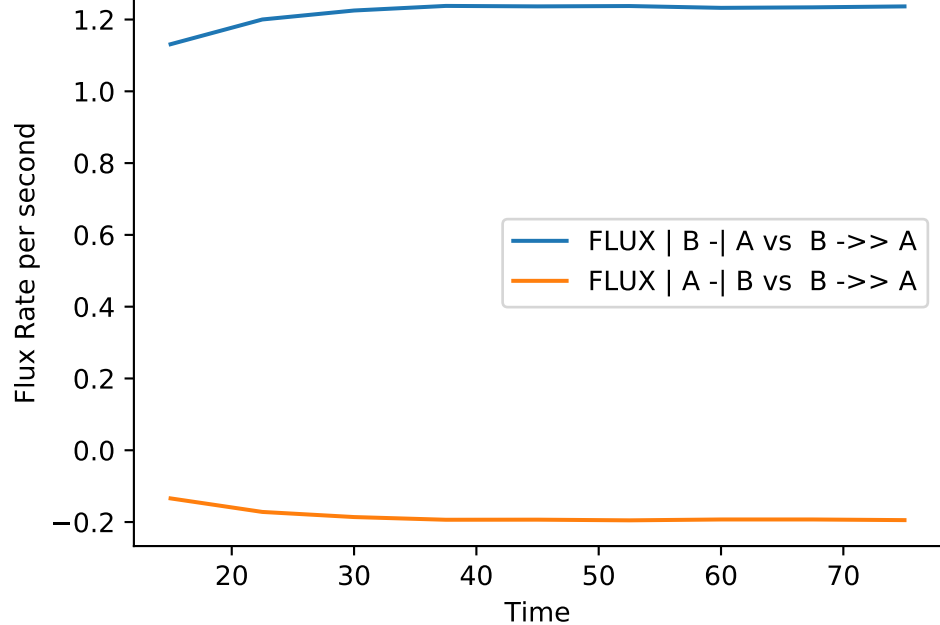
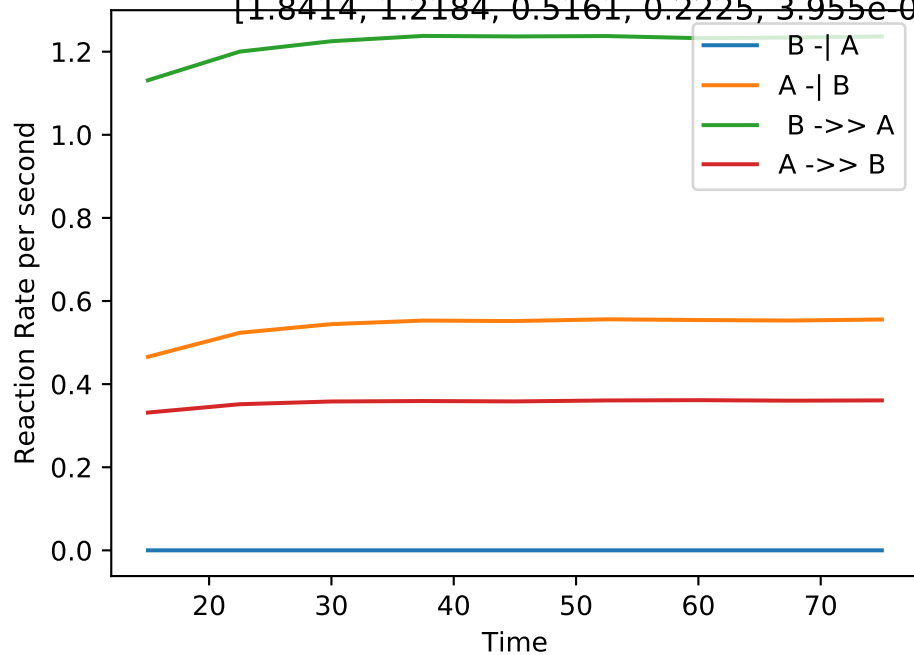
Double_up | MB-LLS Double_up(#240):

[1.3546, 0.2795, 0.4817, 0.3323, 1.011e-10, 0.001113, 0.0456, 0.3866, 0.3039, 0.0447]



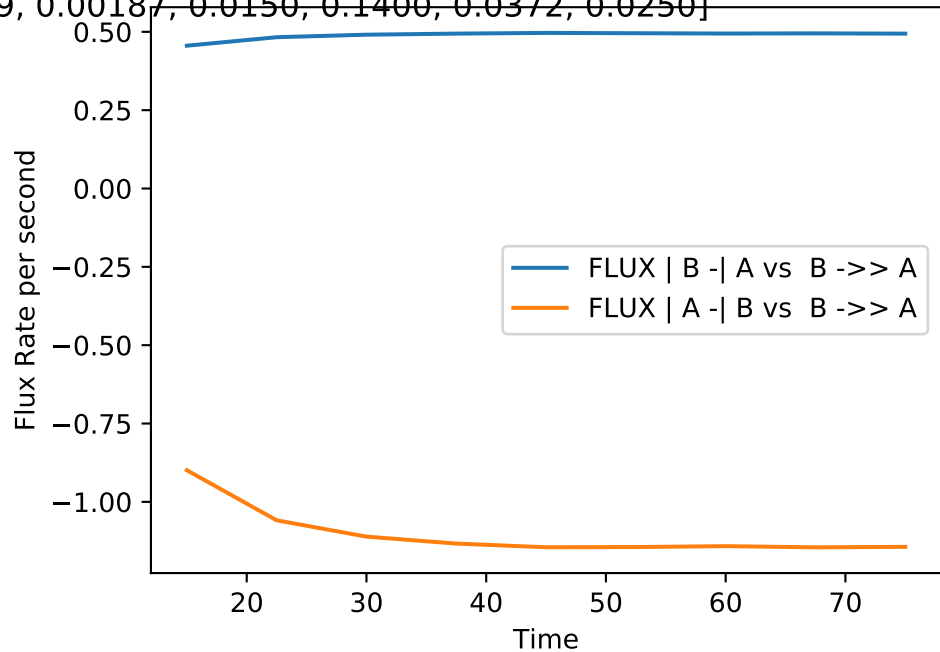
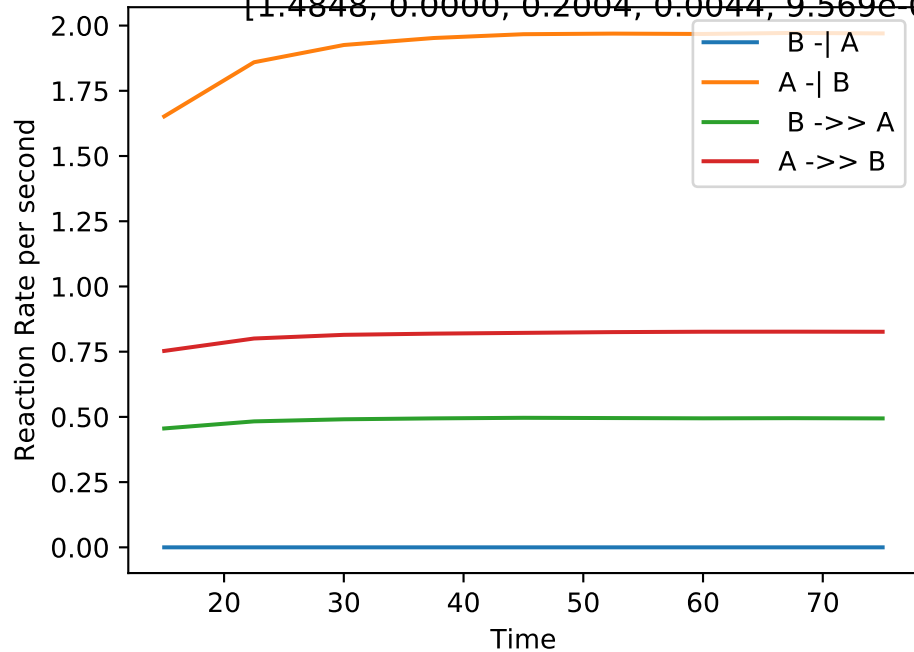
Double_up | MB-LLS Double_up(#241):

[1.8414, 1.2184, 0.5161, 0.2225, 3.955e-08, 0.000527, 0.0374, 0.4125, 0.1860, 0.0109]



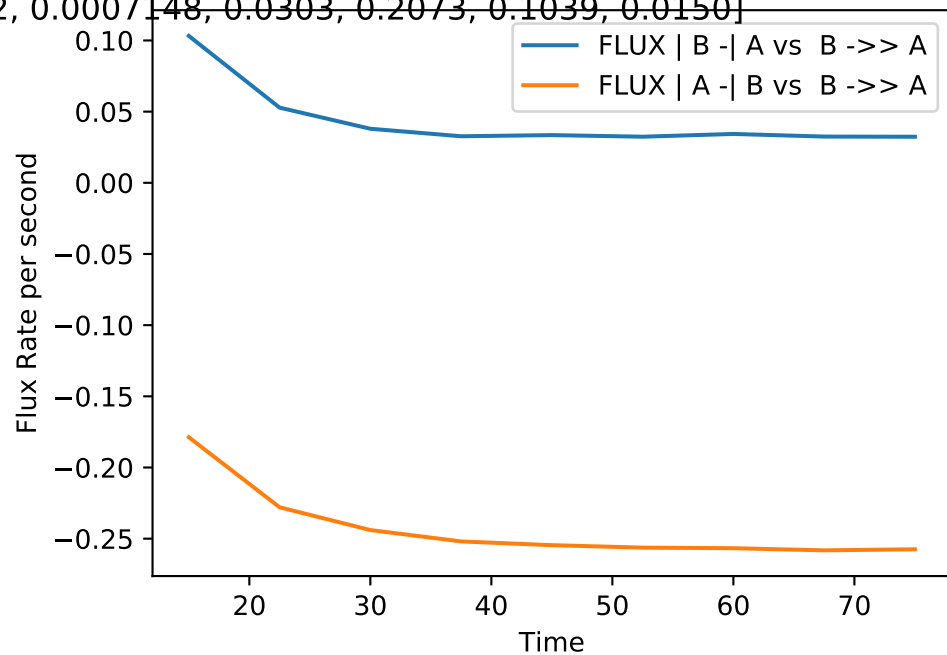
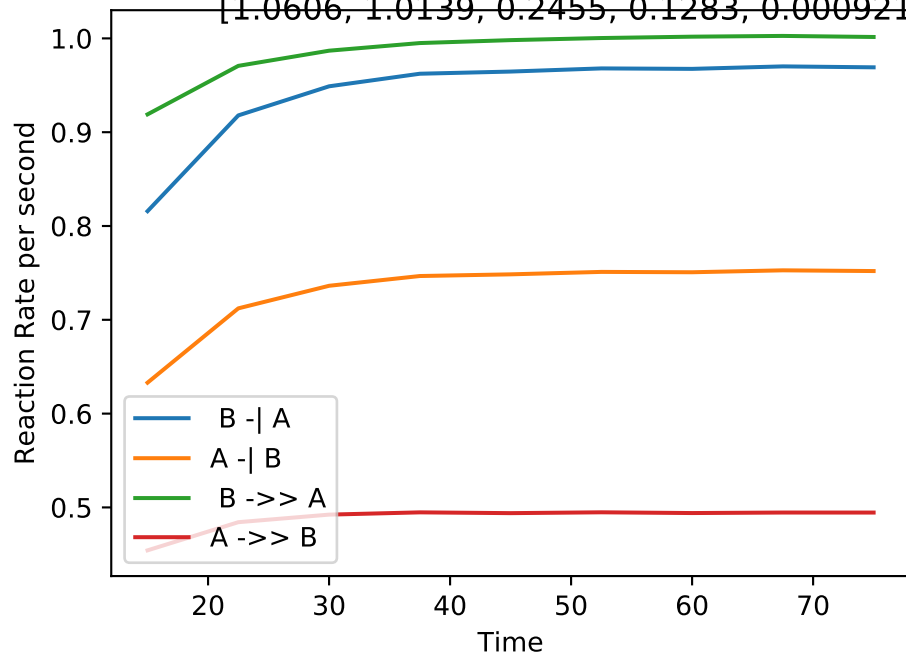
Double_up | MB-LLS Double_up(#242):

[1.4848, 0.0000, 0.2004, 0.0044, 9.569e-09, 0.00187, 0.0150, 0.1400, 0.0372, 0.0250]



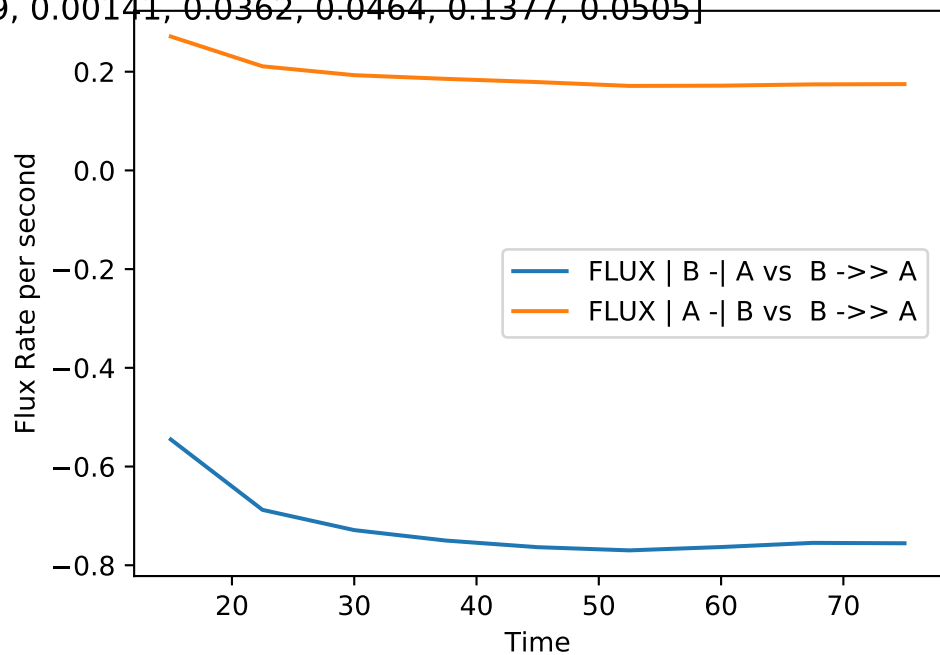
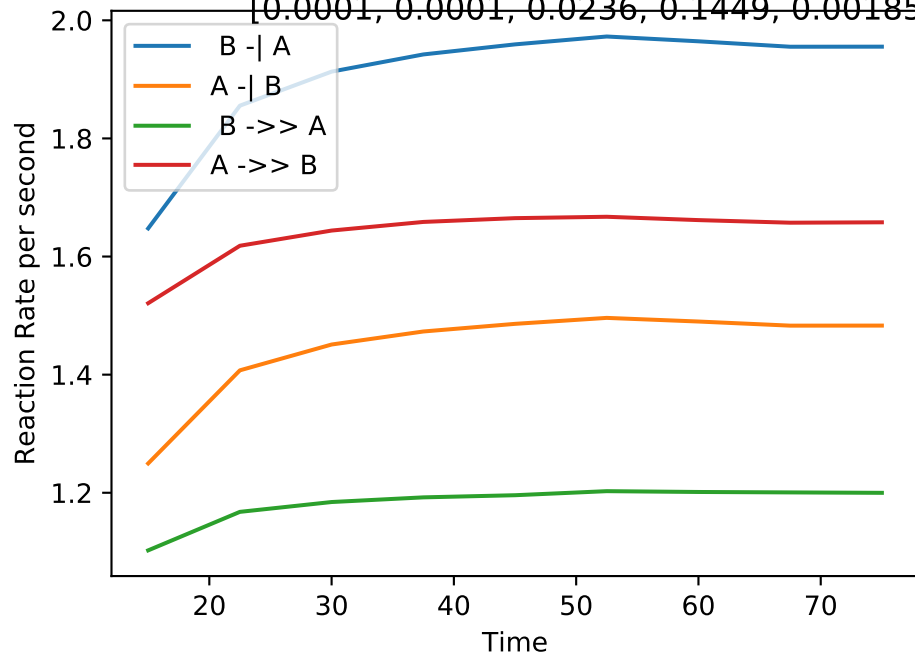
Double_up | MB-LLS Double_up(#243):

[1.0606, 1.0139, 0.2455, 0.1283, 0.0009212, 0.0007148, 0.0303, 0.2073, 0.1039, 0.0150]



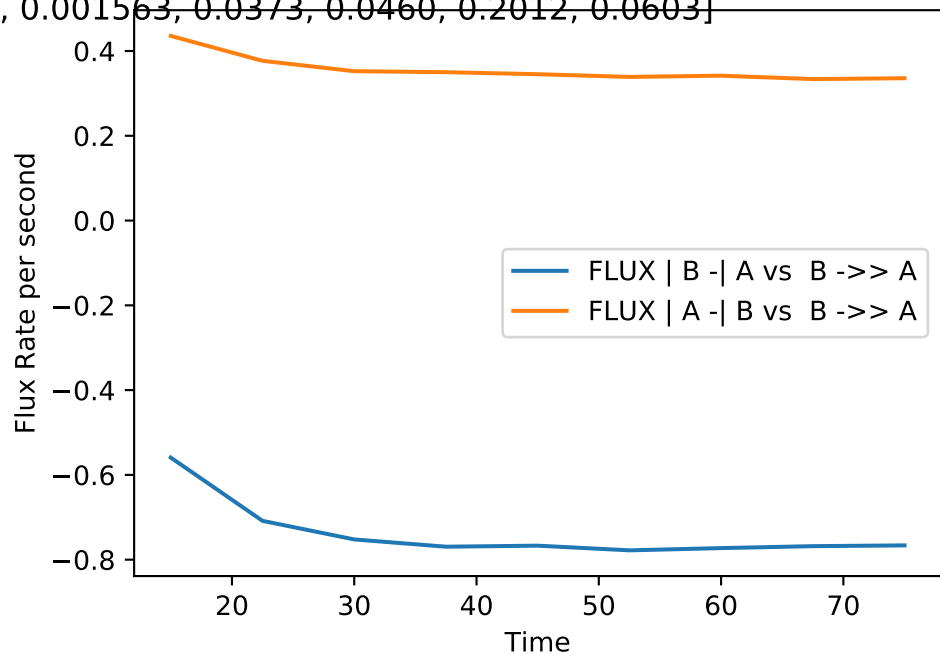
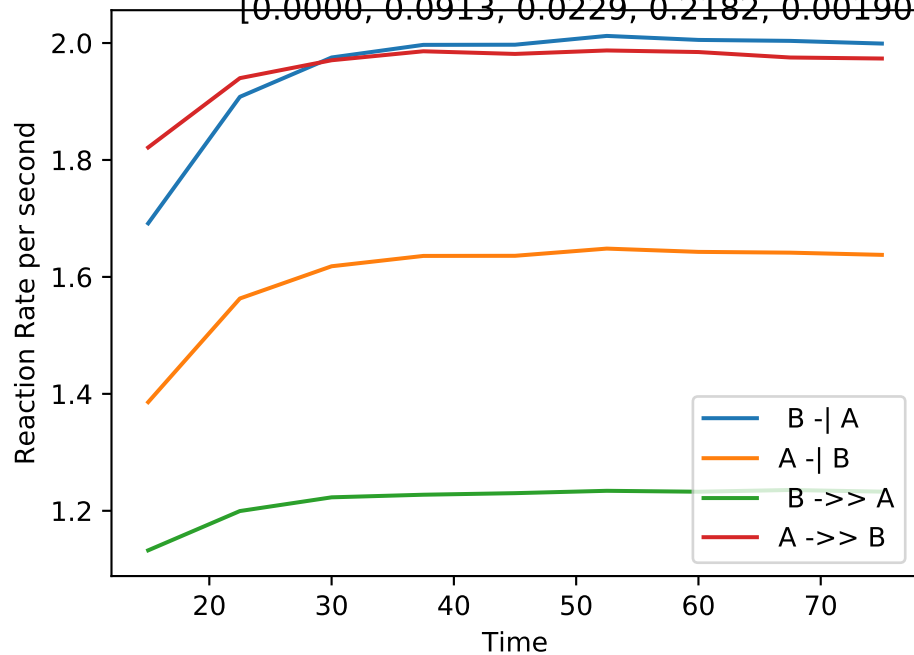
Double_up | MB-LLS Double_up(#244):

[0.0001, 0.0001, 0.0236, 0.1449, 0.001859, 0.00141, 0.0362, 0.0464, 0.1377, 0.0505]



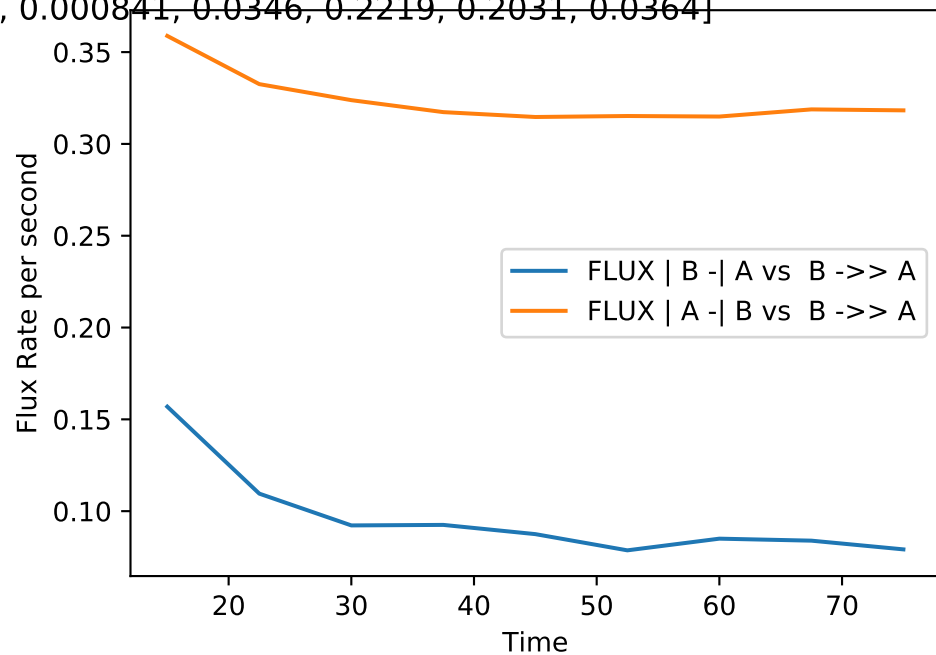
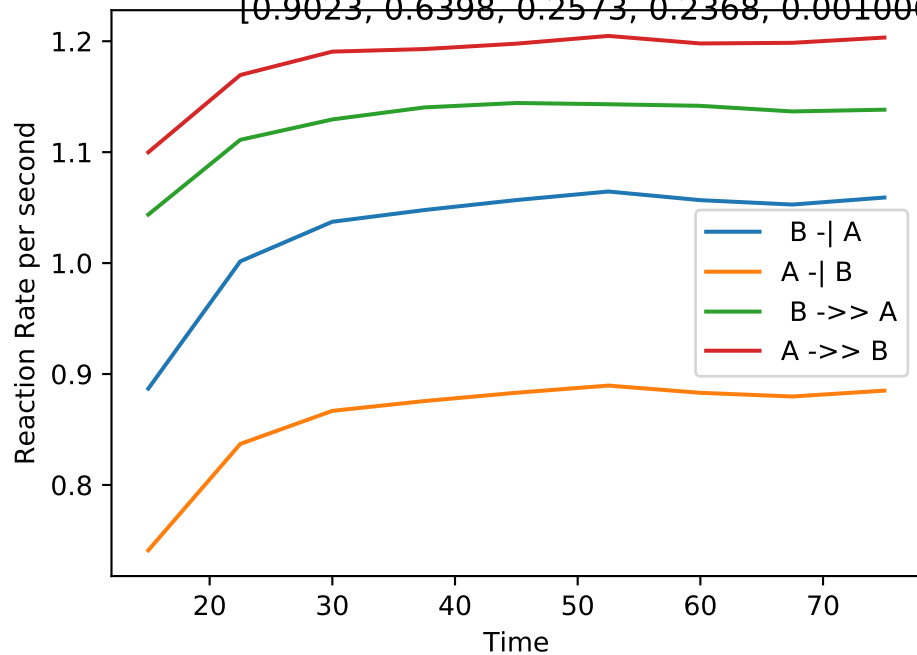
Double_up | MB-LLS Double_up(#245):

[0.0000, 0.0913, 0.0229, 0.2182, 0.001908, 0.001563, 0.0373, 0.0460, 0.2012, 0.0603]



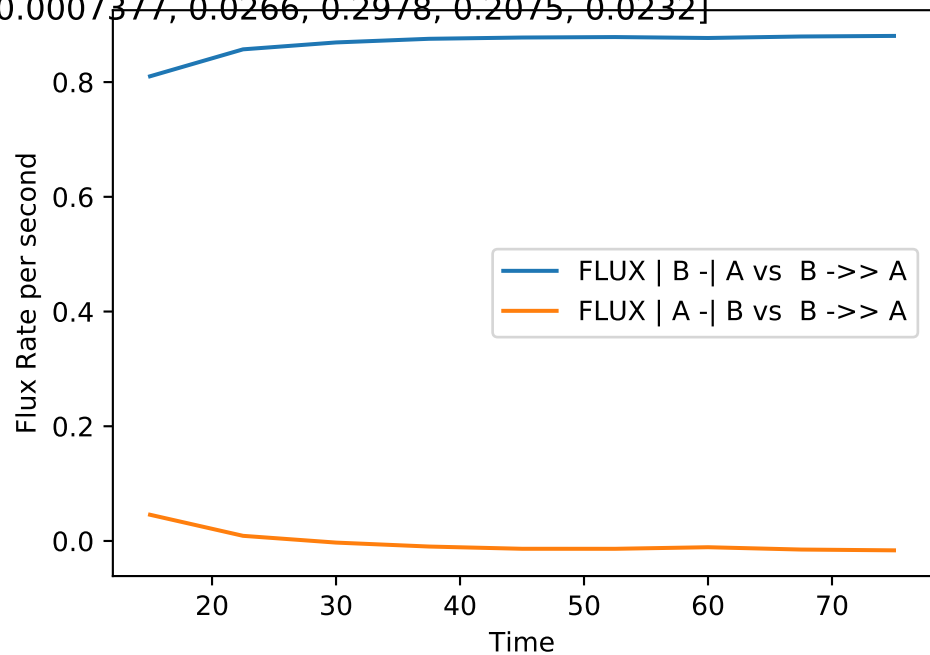
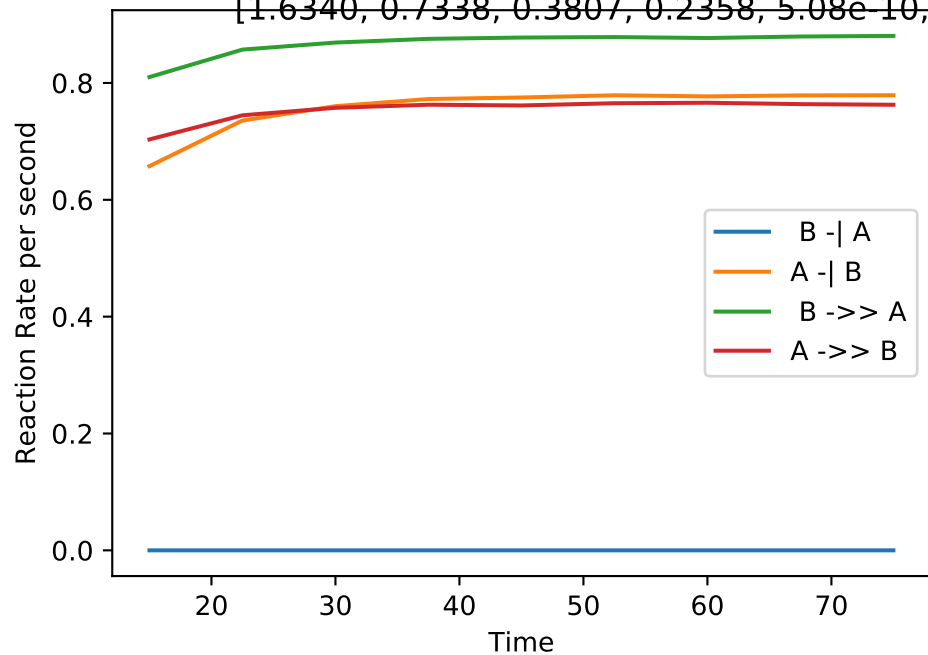
Double_up | MB-LLS Double_up(#246):

[0.9023, 0.6398, 0.2573, 0.2368, 0.001006, 0.000841, 0.0346, 0.2219, 0.2031, 0.0364]



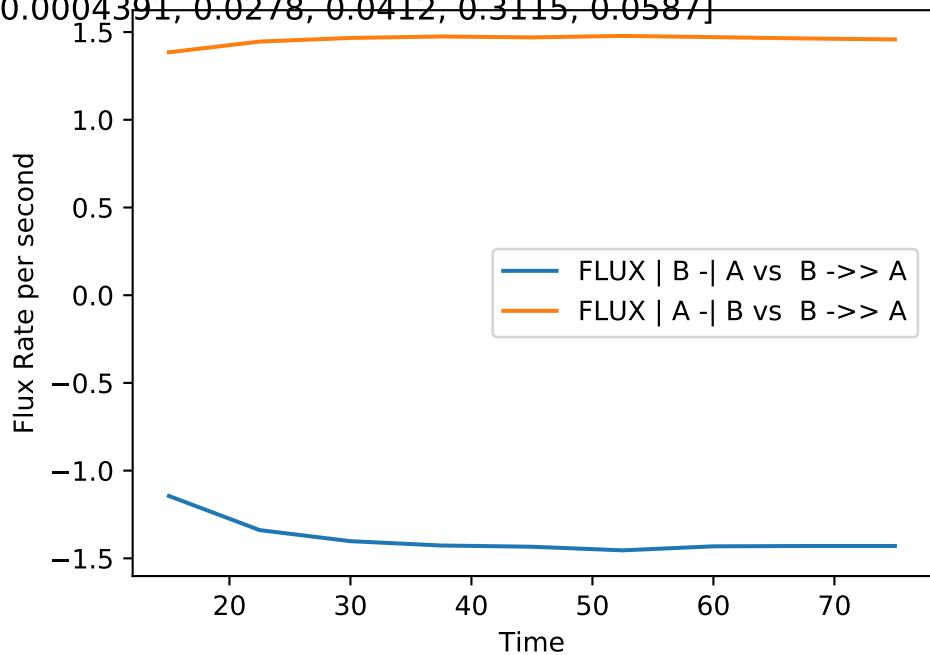
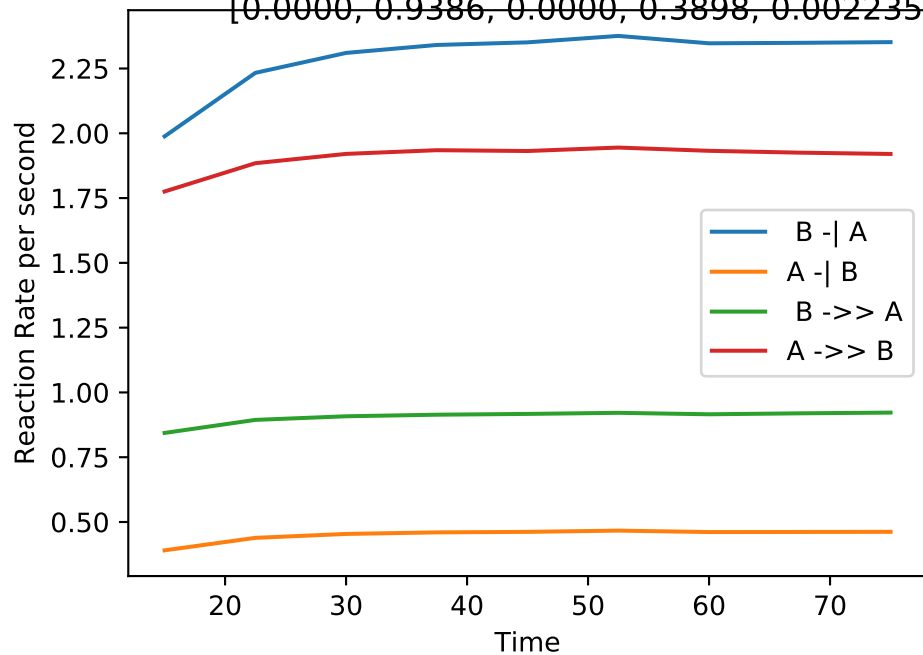
Double_up | MB-LLS Double_up(#247):

[1.6340, 0.7338, 0.3807, 0.2358, 5.08e-10, 0.0007377, 0.0266, 0.2978, 0.2075, 0.0232]



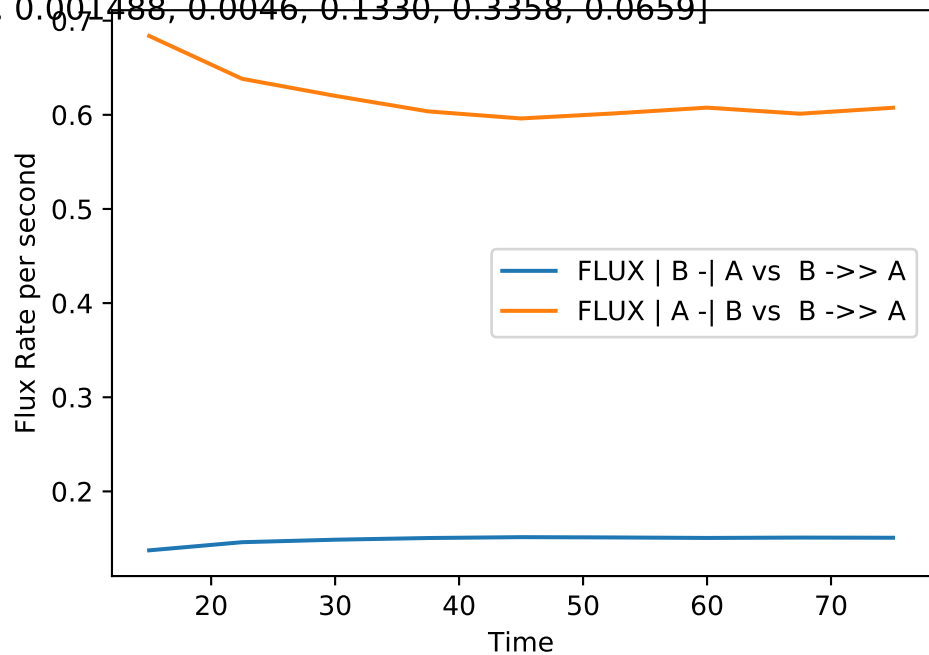
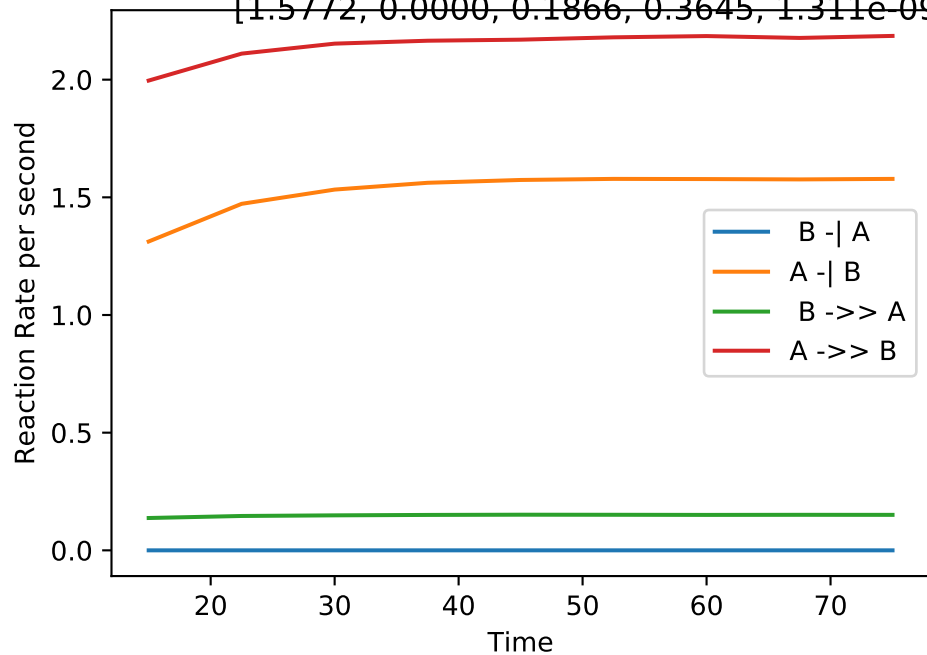
Double_up | MB-LLS Double_up(#248):

[0.0000, 0.9386, 0.0000, 0.3898, 0.002235, 0.0004391, 0.0278, 0.0412, 0.3115, 0.0587]



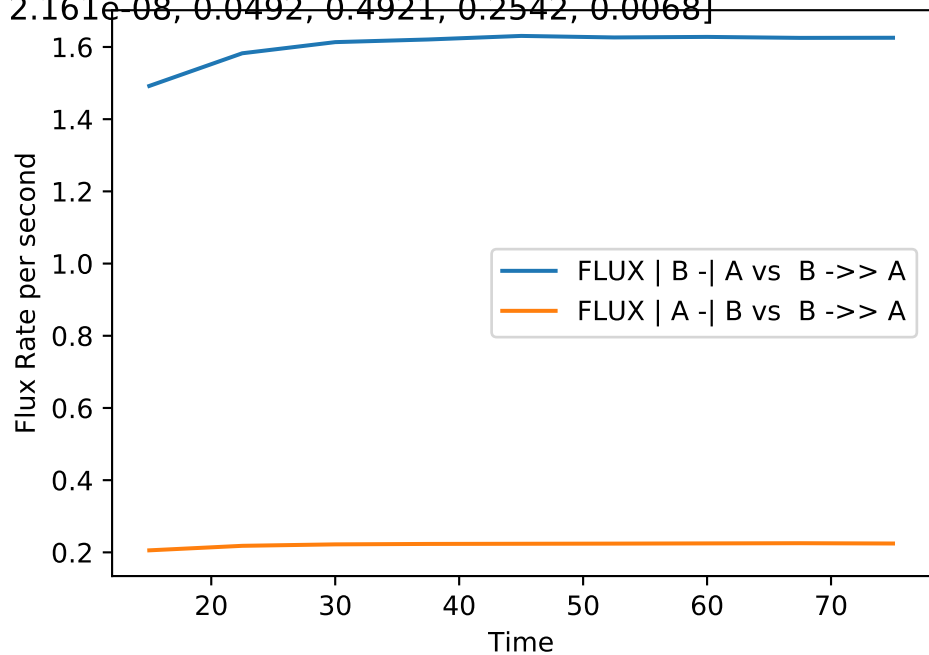
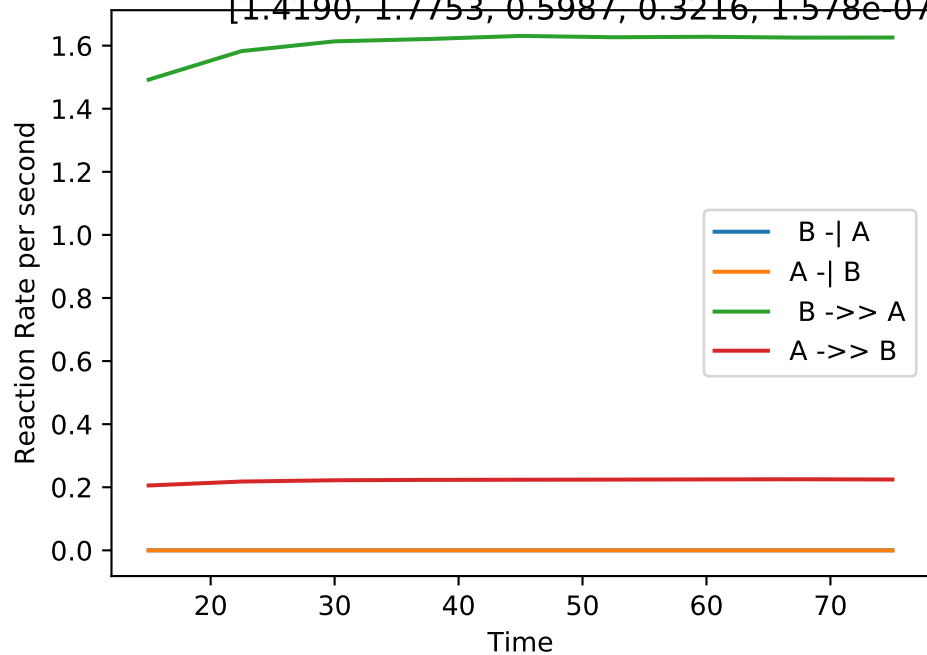
Double_up | MB-LLS Double_up(#249):

[1.5772, 0.0000, 0.1866, 0.3645, 1.311e-09, 0.001488, 0.0046, 0.1330, 0.3358, 0.0659]



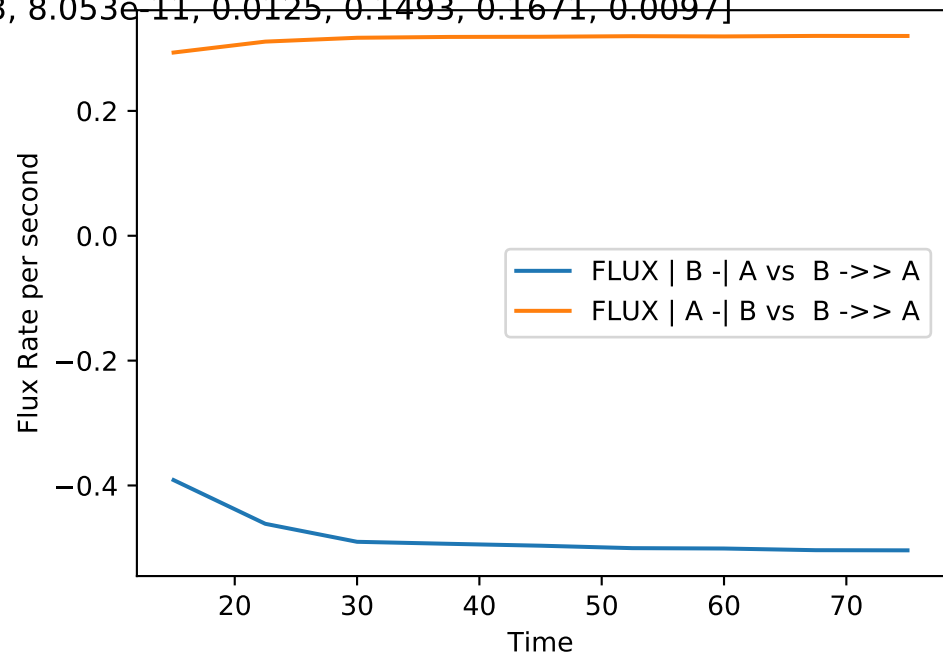
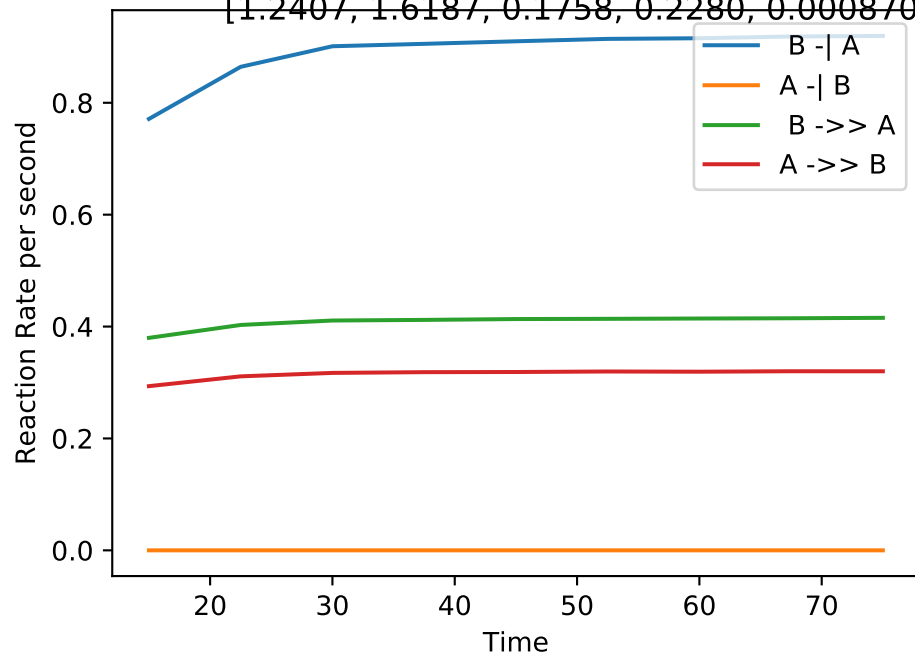
Double_up | MB-LLS Double_up(#250):

[1.4190, 1.7753, 0.5987, 0.3216, 1.578e-07, 2.161e-08, 0.0492, 0.4921, 0.2542, 0.0068]



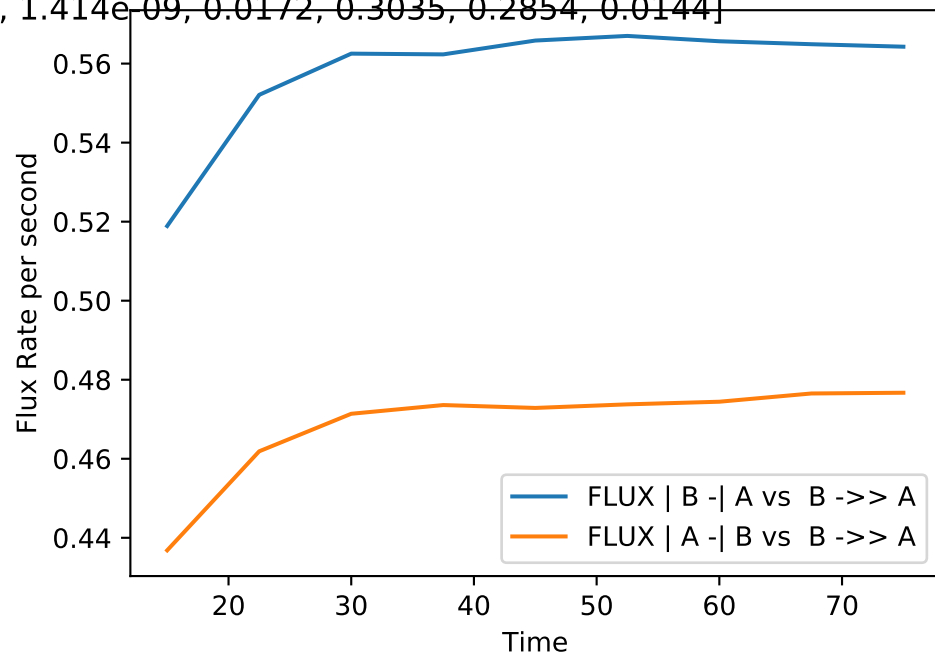
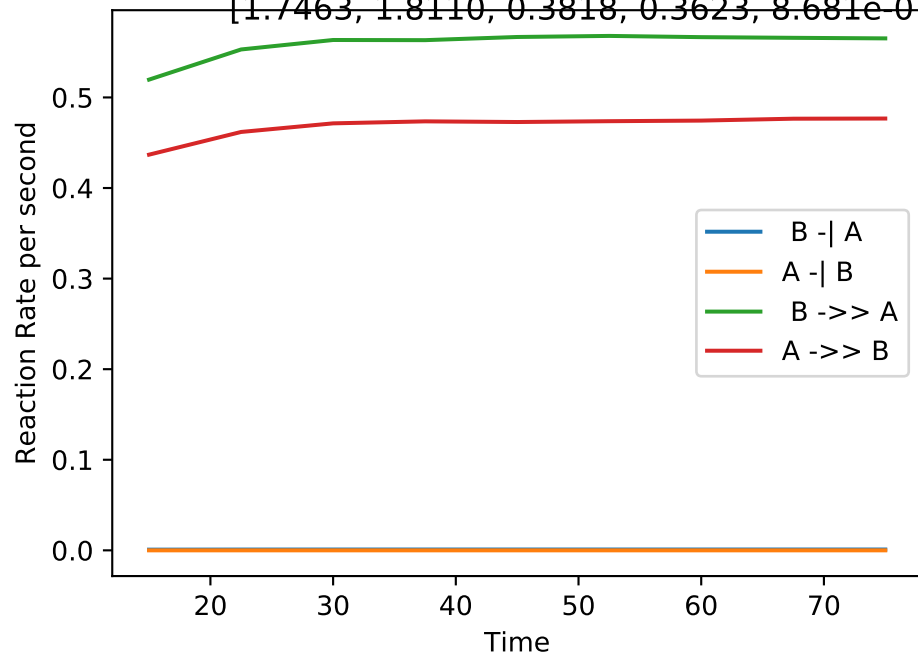
Double_up | MB-LLS Double_up(#251):

[1.2407, 1.6187, 0.1758, 0.2280, 0.0008703, 8.053e-11, 0.0125, 0.1493, 0.1671, 0.0097]



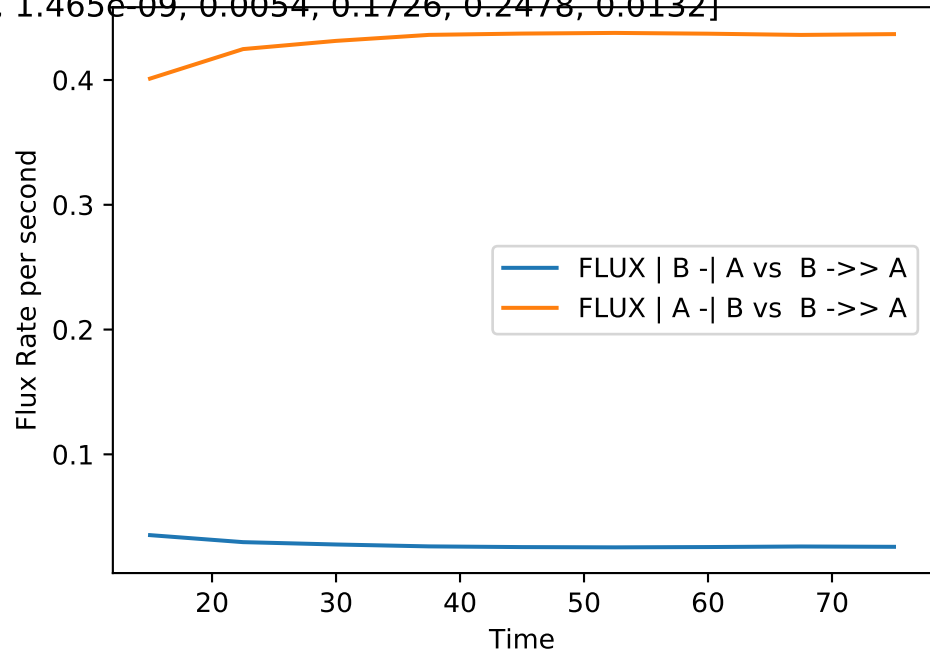
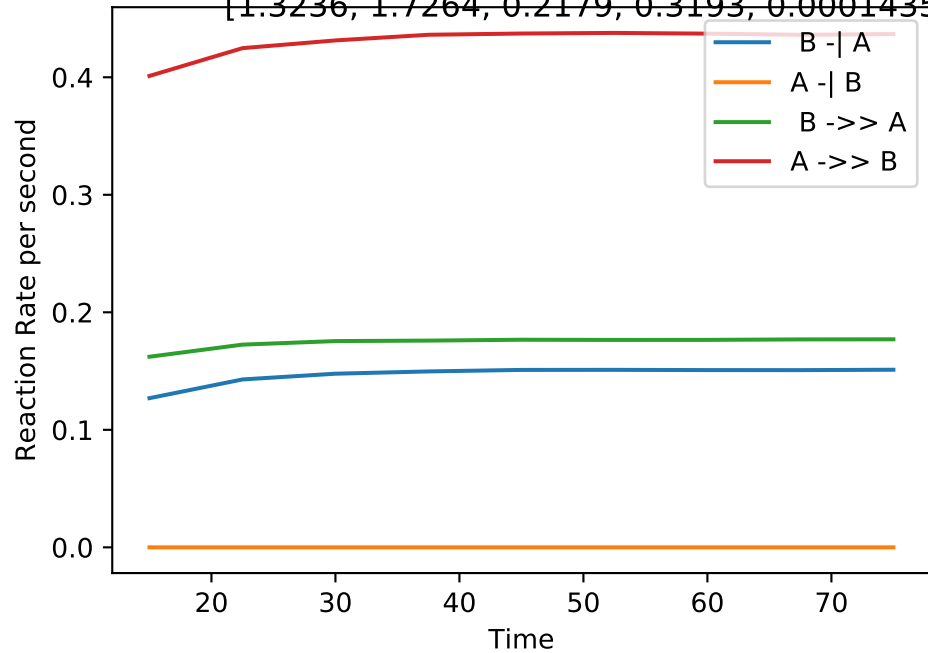
Double_up | MB-LLS Double_up(#252):

[1.7463, 1.8110, 0.3818, 0.3623, 8.681e-07, 1.414e-09, 0.0172, 0.3035, 0.2854, 0.0144]



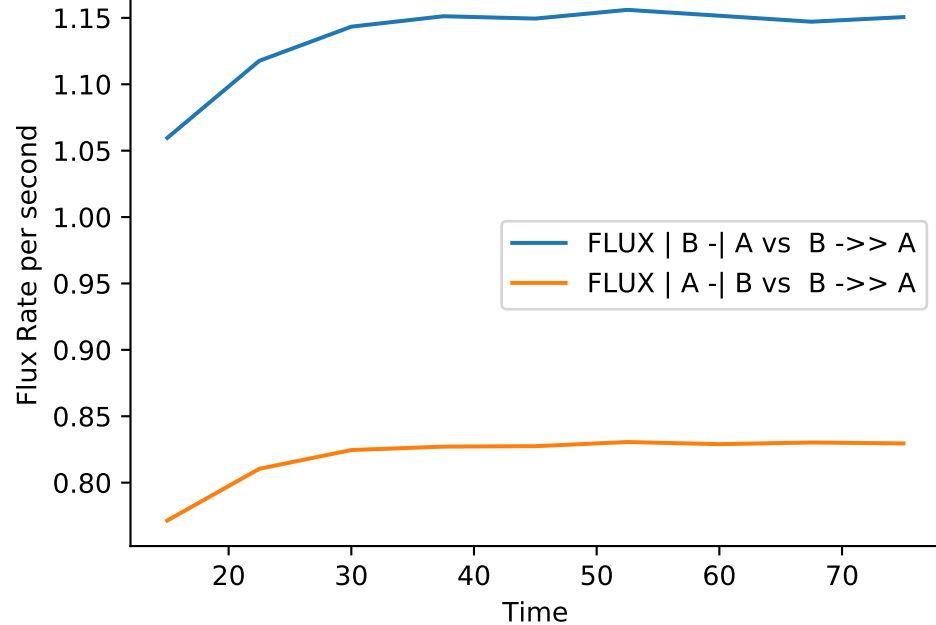
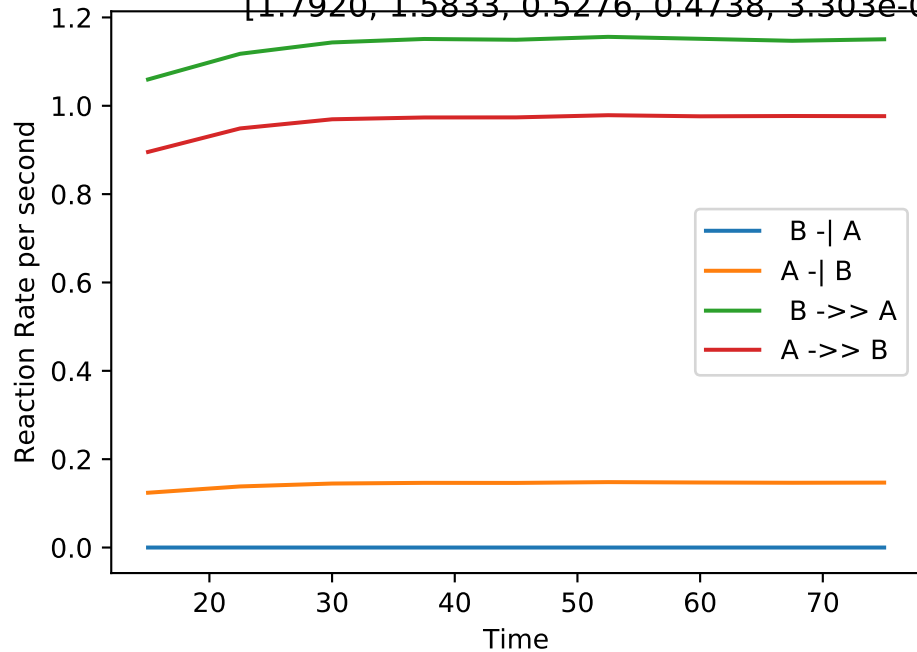
Double_up | MB-LLS Double_up(#253):

[1.3236, 1.7264, 0.2179, 0.3193, 0.0001435, 1.465e-09, 0.0054, 0.1726, 0.2478, 0.0132]



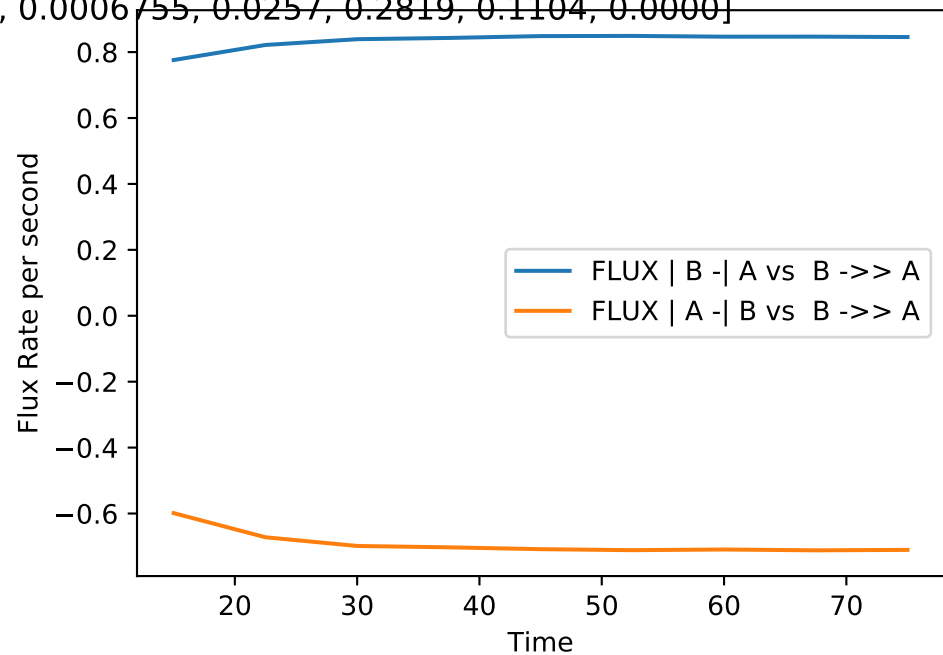
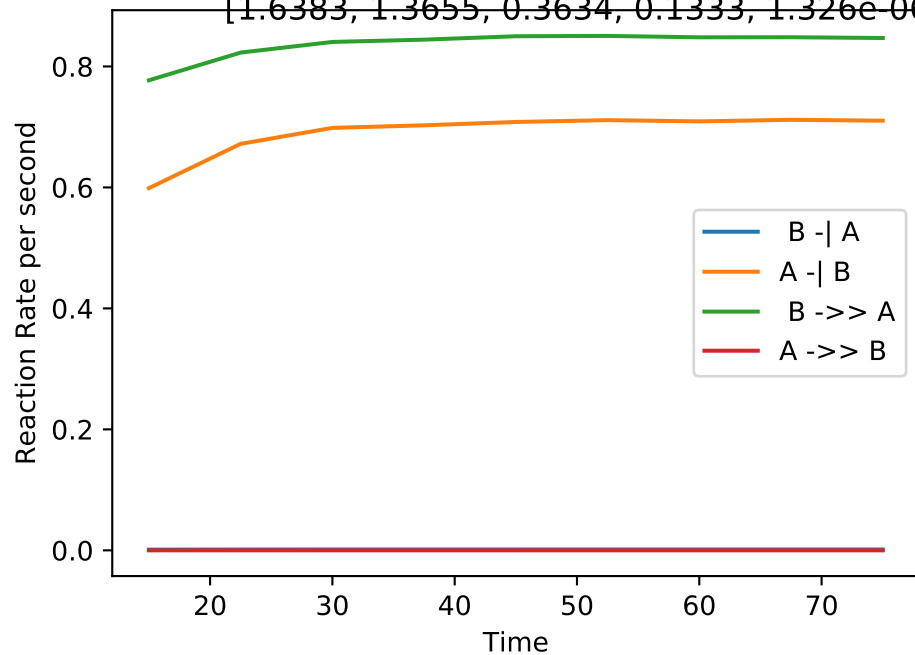
Double_up | MB-LLS Double_up(#254):

[1.7920, 1.5833, 0.5276, 0.4738, 3.303e-09, 0.00014, 0.0349, 0.4266, 0.3894, 0.0296]



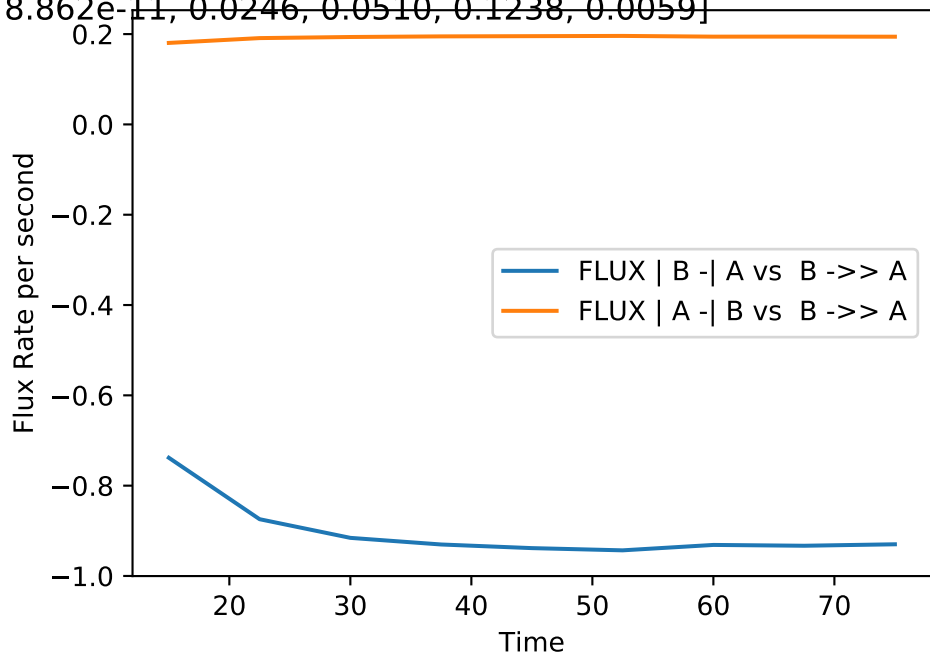
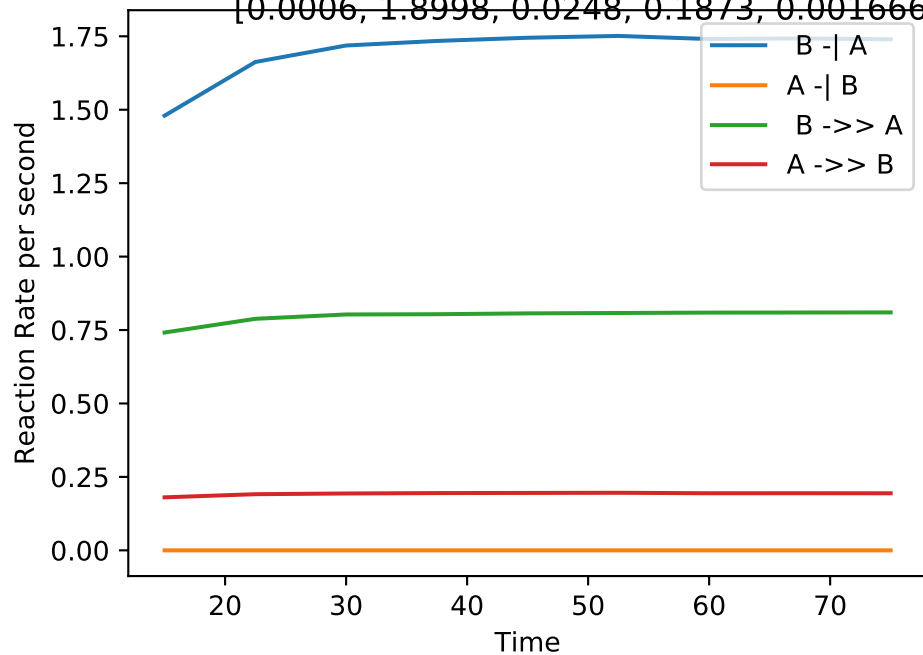
Double_up | MB-LLS Double_up(#255):

[1.6383, 1.3655, 0.3634, 0.1333, 1.326e-06, 0.0006755, 0.0257, 0.2819, 0.1104, 0.0000]



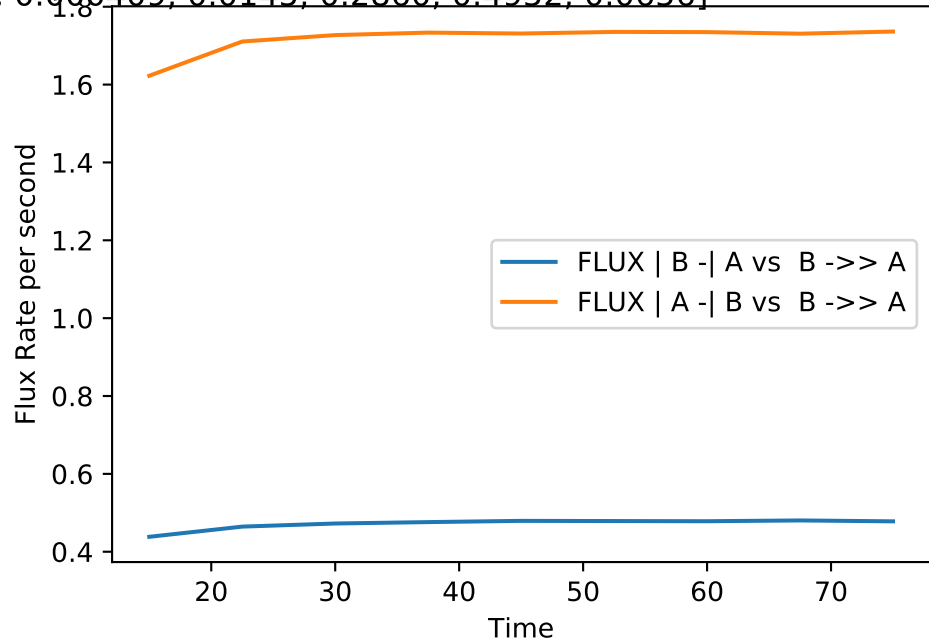
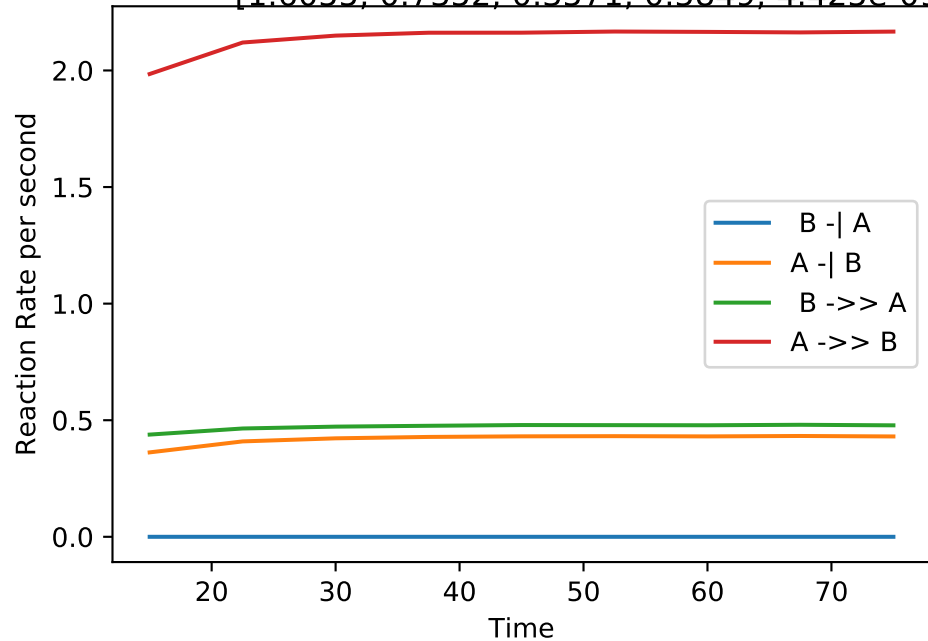
Double_up | MB-LLS Double_up(#256):

[0.0006, 1.8998, 0.0248, 0.1873, 0.001666, 8.862e-11, 0.0246, 0.0510, 0.1238, 0.0059]



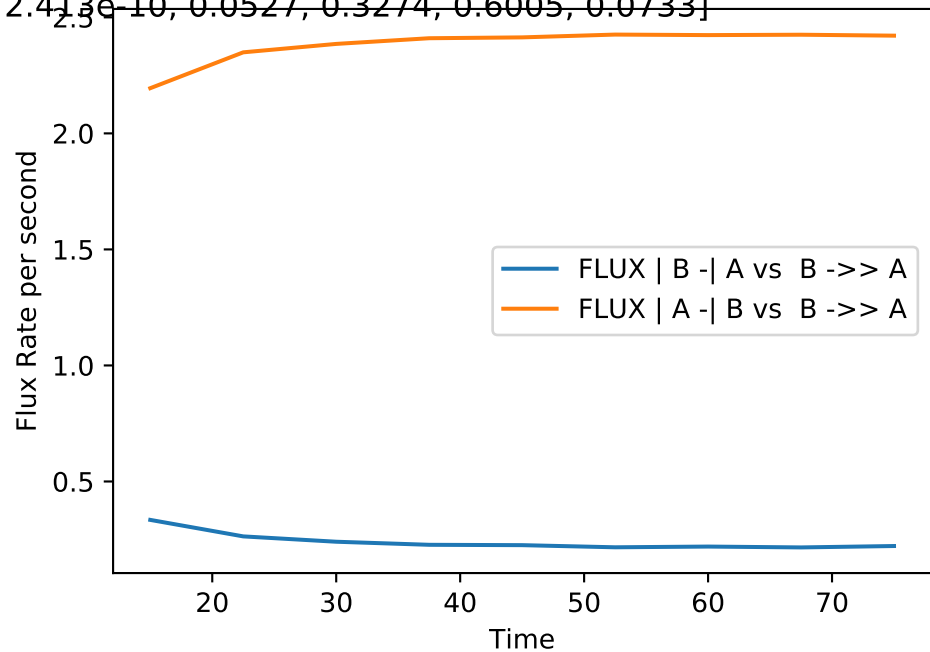
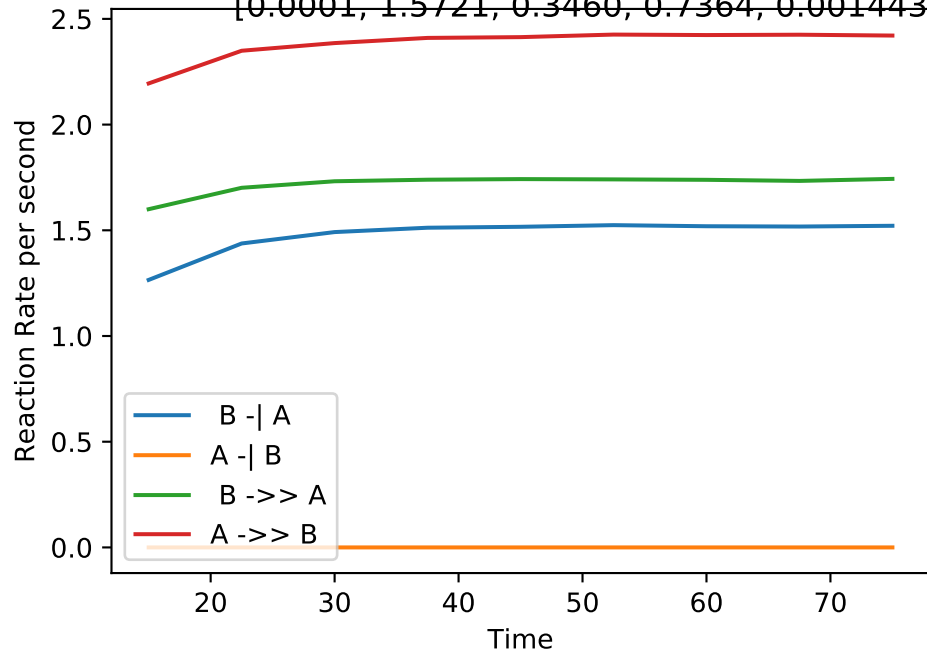
Double_up | MB-LLS Double_up(#257):

[1.6055, 0.7352, 0.3571, 0.5849, 4.425e-09, 0.000409, 0.0145, 0.2860, 0.4952, 0.0656]



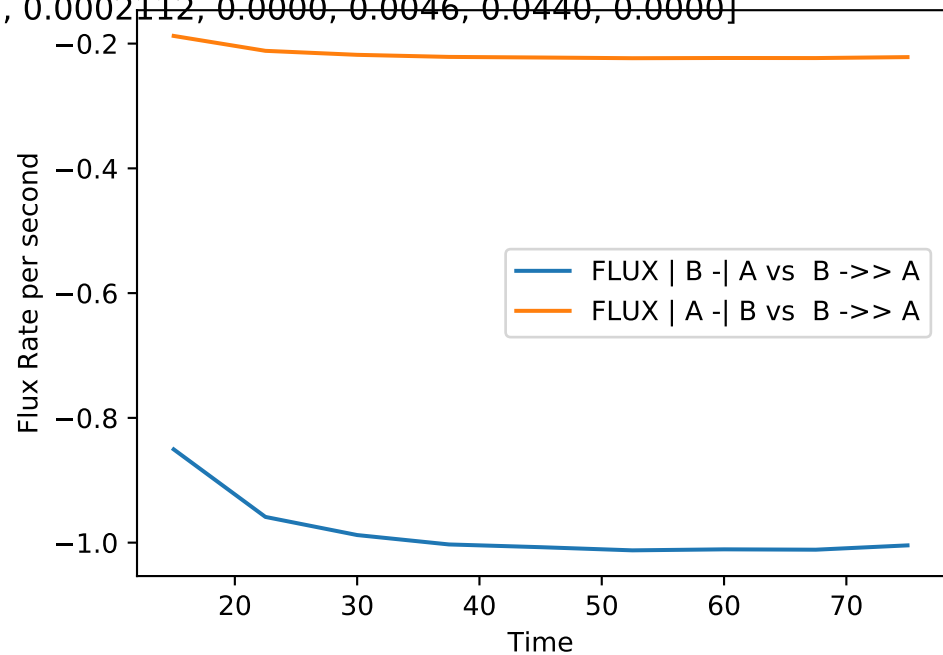
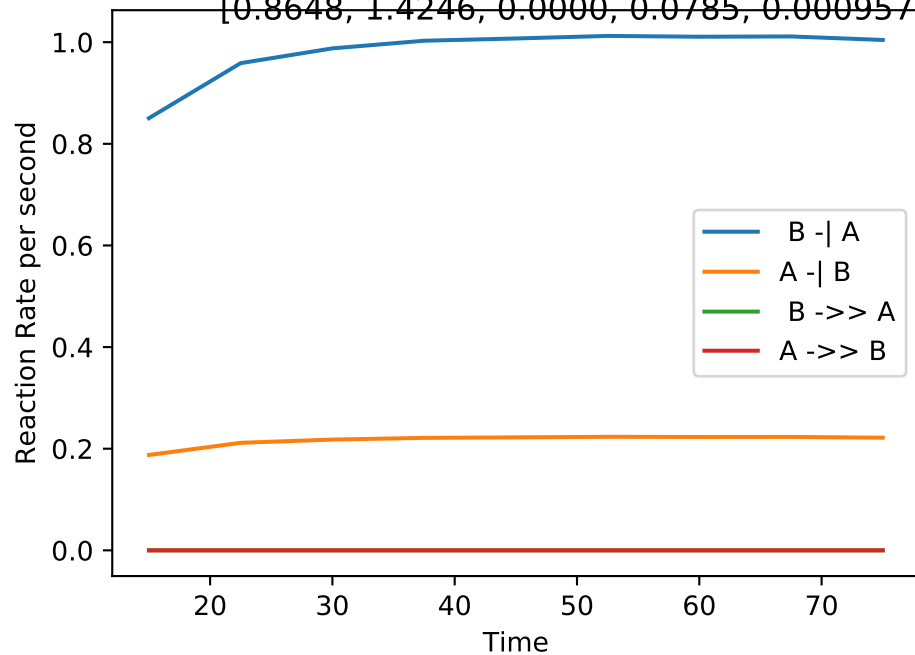
Double_up | MB-LLS Double_up(#258):

[0.0001, 1.5721, 0.3460, 0.7364, 0.001443, 2.413e-10, 0.0527, 0.3274, 0.6005, 0.0733]



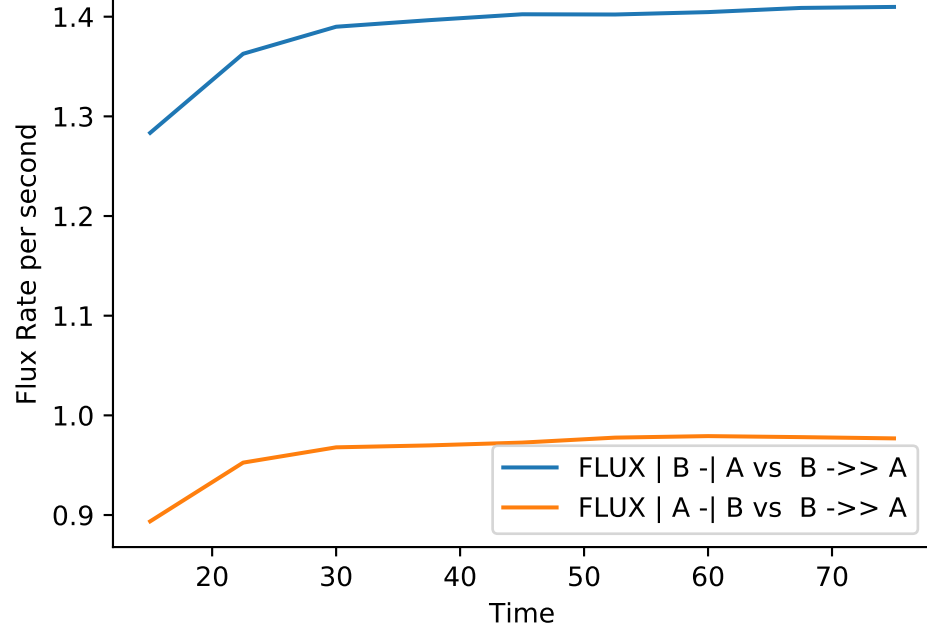
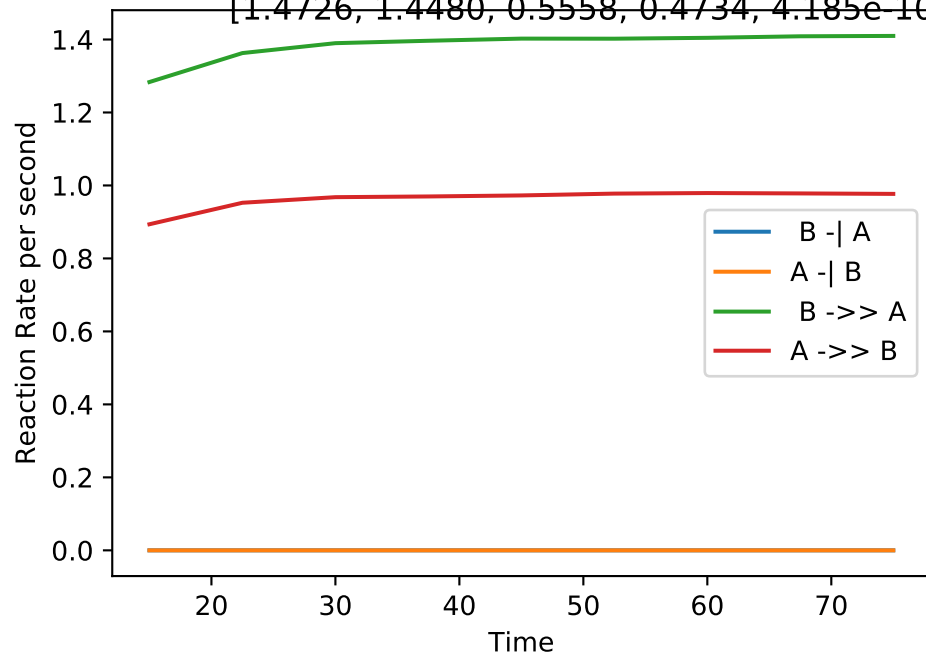
Double_up | MB-LLS Double_up(#259):

[0.8648, 1.4246, 0.0000, 0.0785, 0.0009572, 0.0002112, 0.0000, 0.0046, 0.0440, 0.0000]



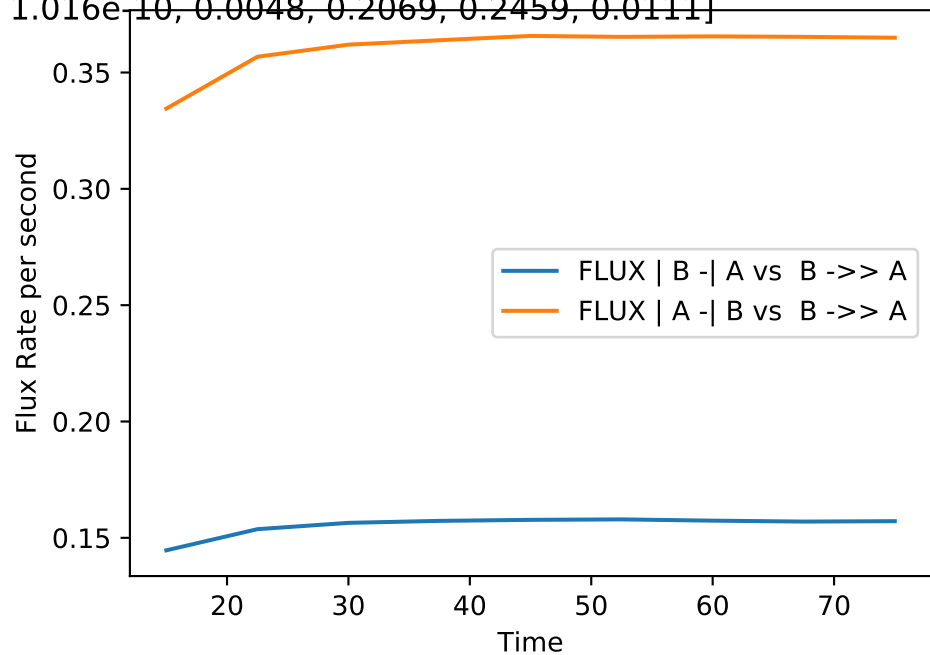
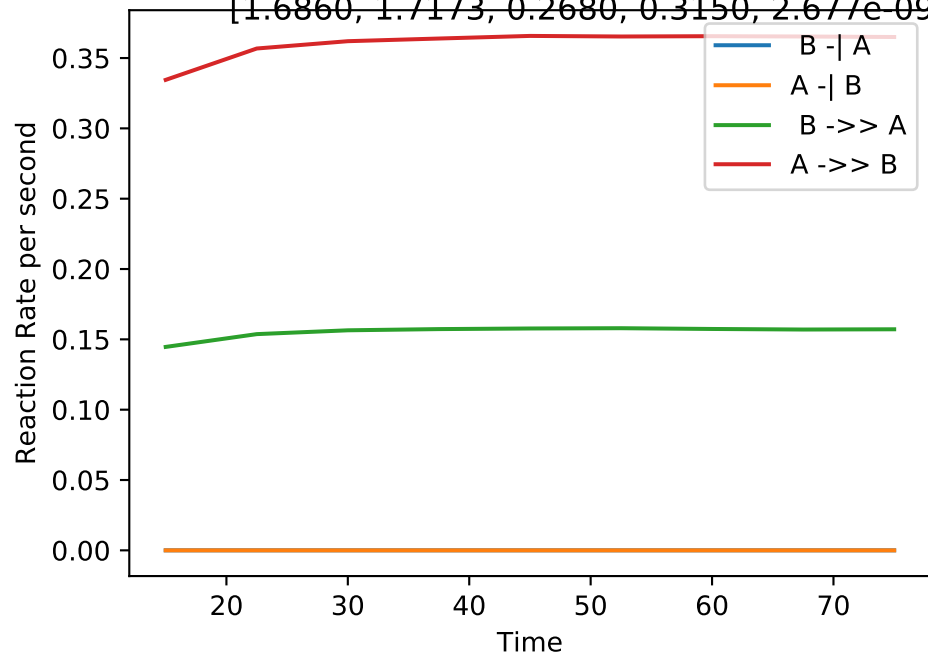
Double_up | MB-LLS Double_up(#260):

[1.4726, 1.4480, 0.5558, 0.4734, 4.185e-10, 1.498e-10, 0.0426, 0.4559, 0.3884, 0.0295]



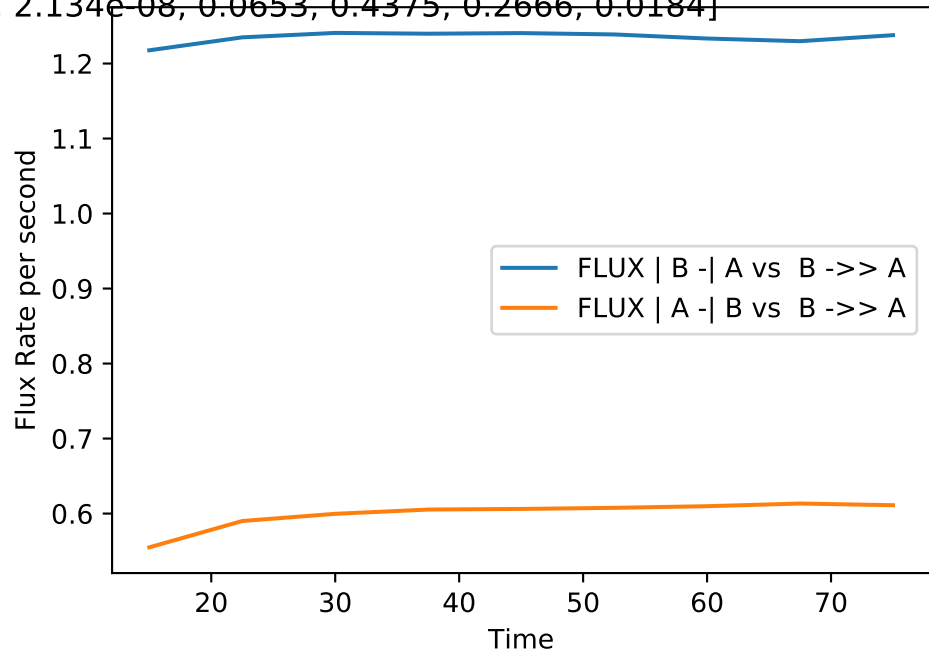
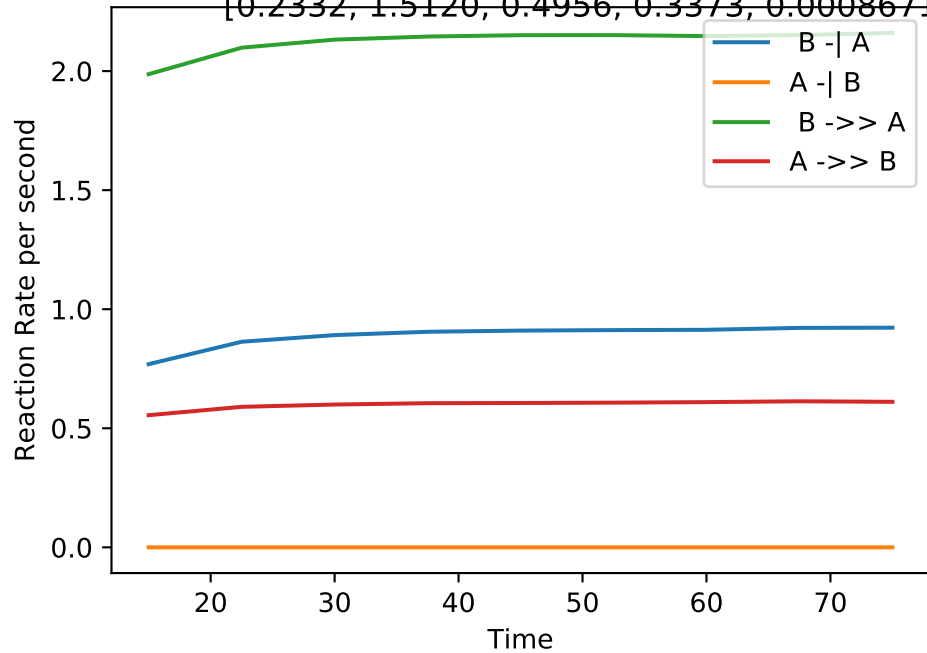
Double_up | MB-LLS Double_up(#261):

[1.6860, 1.7173, 0.2680, 0.3150, 2.677e-09, 1.016e-10, 0.0048, 0.2069, 0.2459, 0.0111]



Double_up | MB-LLS Double_up(#262):

[0.2332, 1.5120, 0.4956, 0.3373, 0.0008671, 2.134e-08, 0.0653, 0.4375, 0.2666, 0.0184]



Double_up | MB-LLS Double_up(#263):

[1.6560, 1.5252, 0.2736, 0.2116, 6.453e-10, 3.391e-09, 0.0079, 0.2107, 0.1617, 0.0000]

Reaction Rate per second

0.25
0.20
0.15
0.10
0.05
0.00

20

30

40

50

60

70

Time



Flux Rate per second

0.25
0.20
0.15
0.10
0.05
0.00

20

30

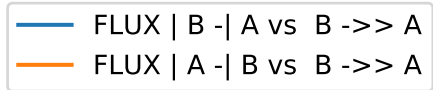
40

50

60

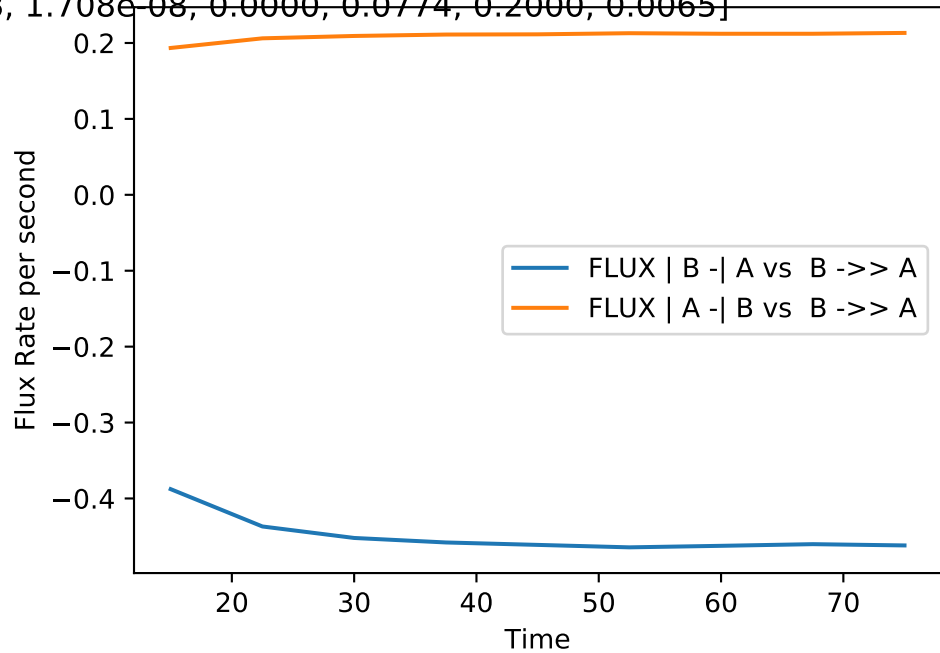
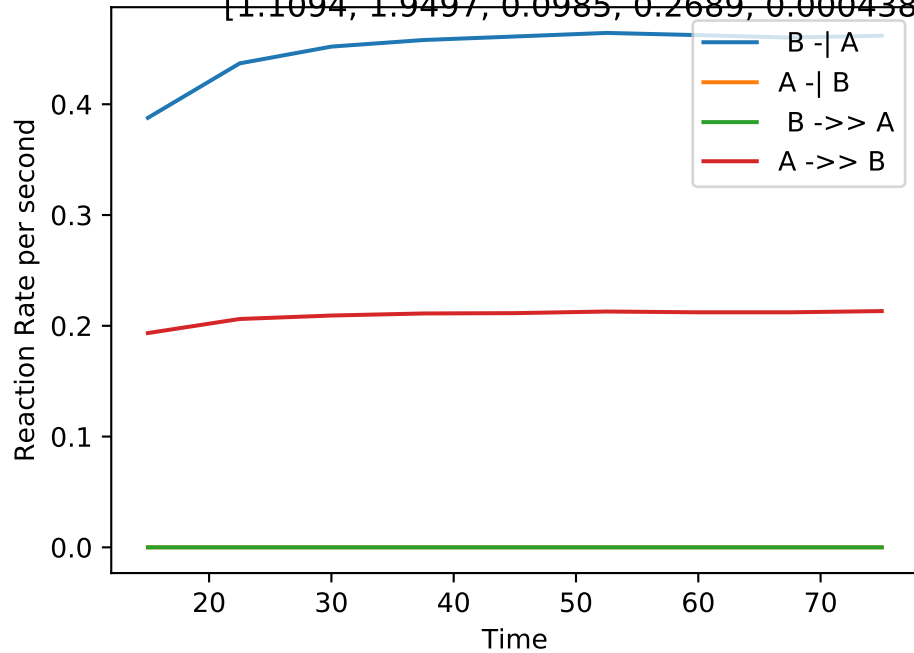
70

Time



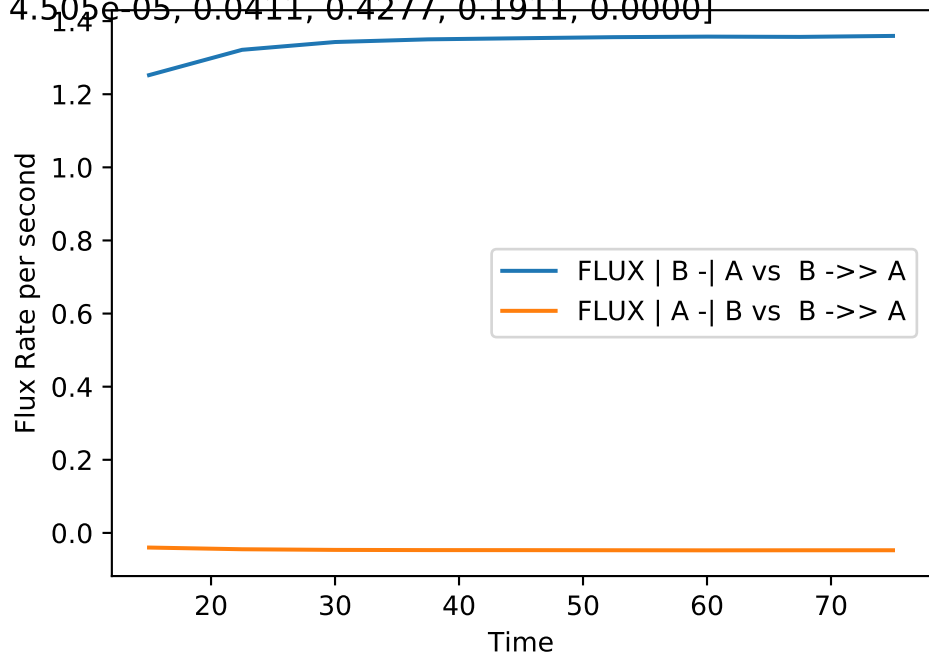
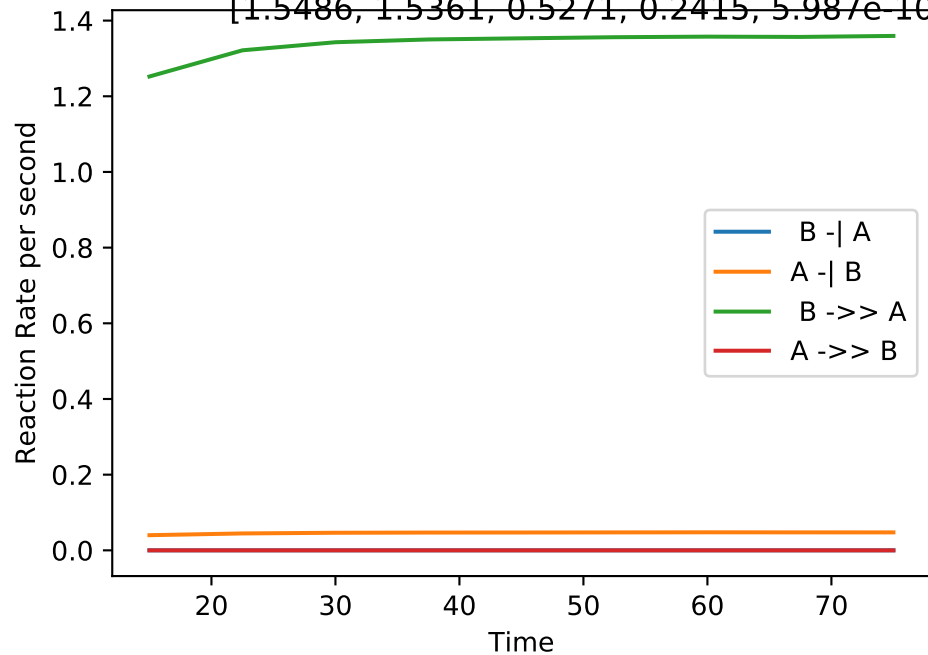
Double_up | MB-LLS Double_up(#264):

[1.1094, 1.9497, 0.0985, 0.2689, 0.0004388, 1.708e-08, 0.0000, 0.0774, 0.2000, 0.0065]



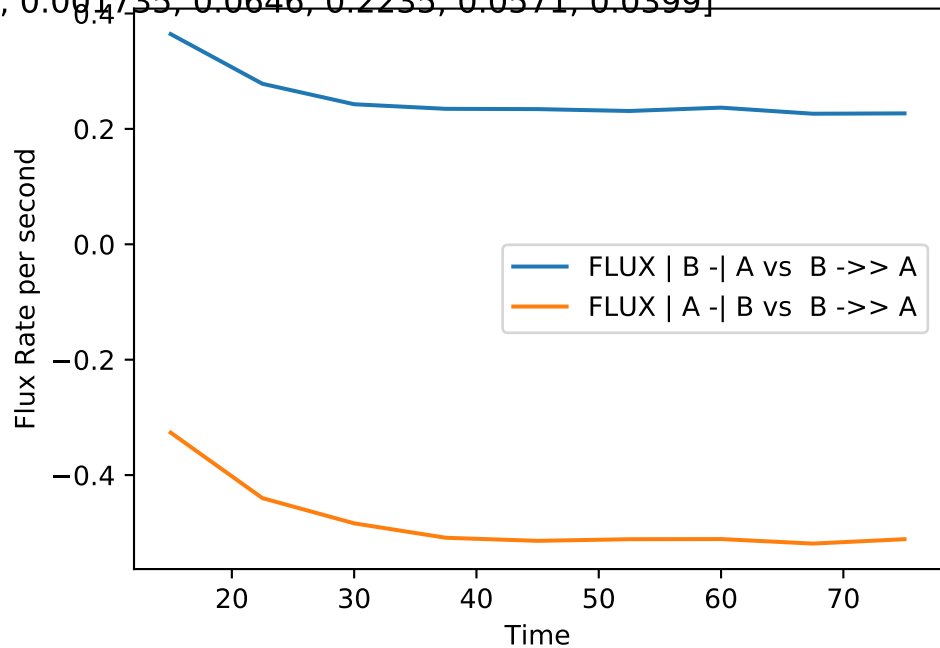
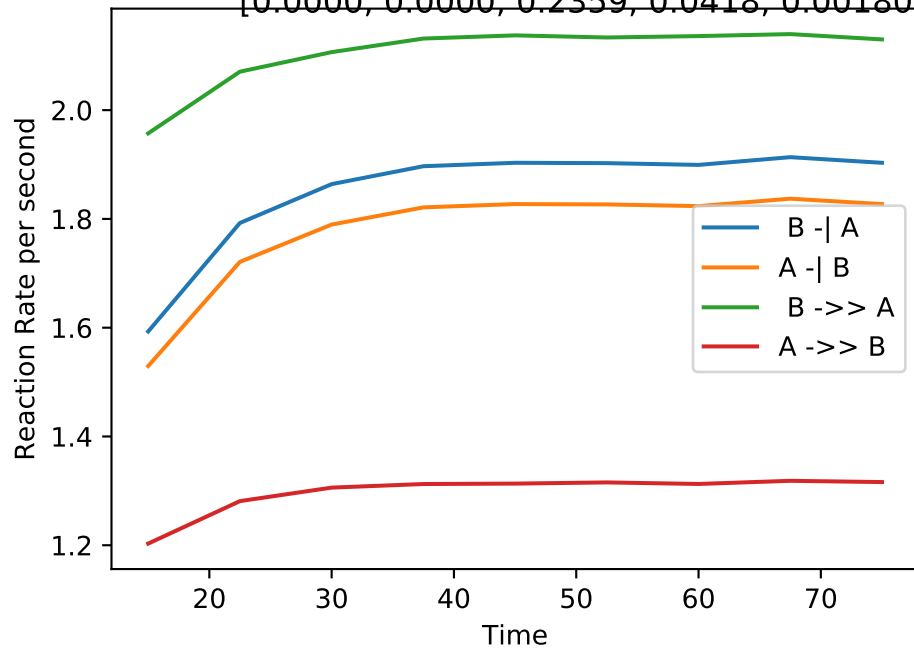
Double_up | MB-LLS Double_up(#265):

[1.5486, 1.5361, 0.5271, 0.2415, 5.987e-10, 4.505e-05, 0.0411, 0.4277, 0.1911, 0.0000]



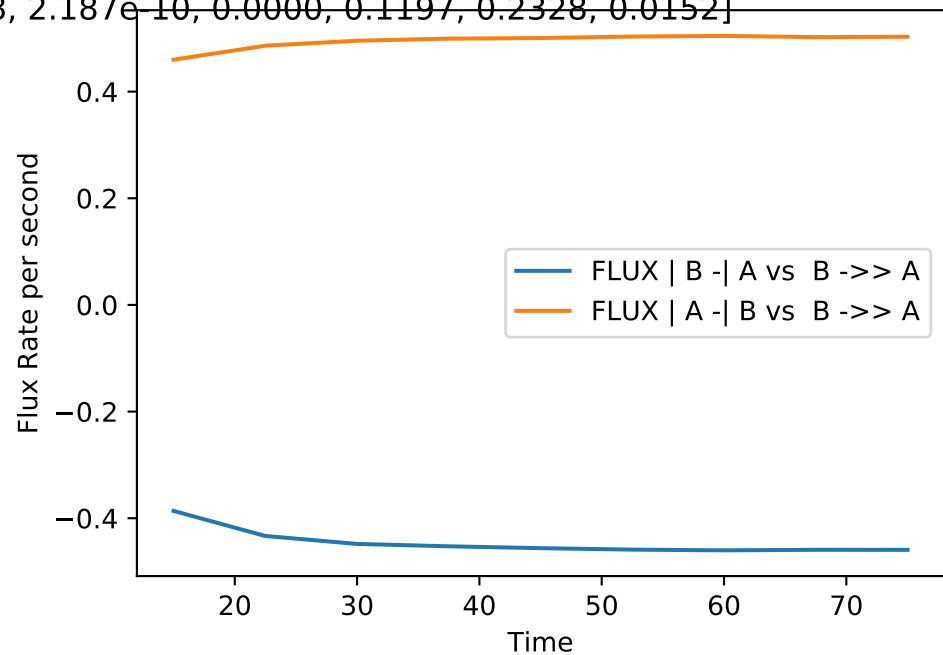
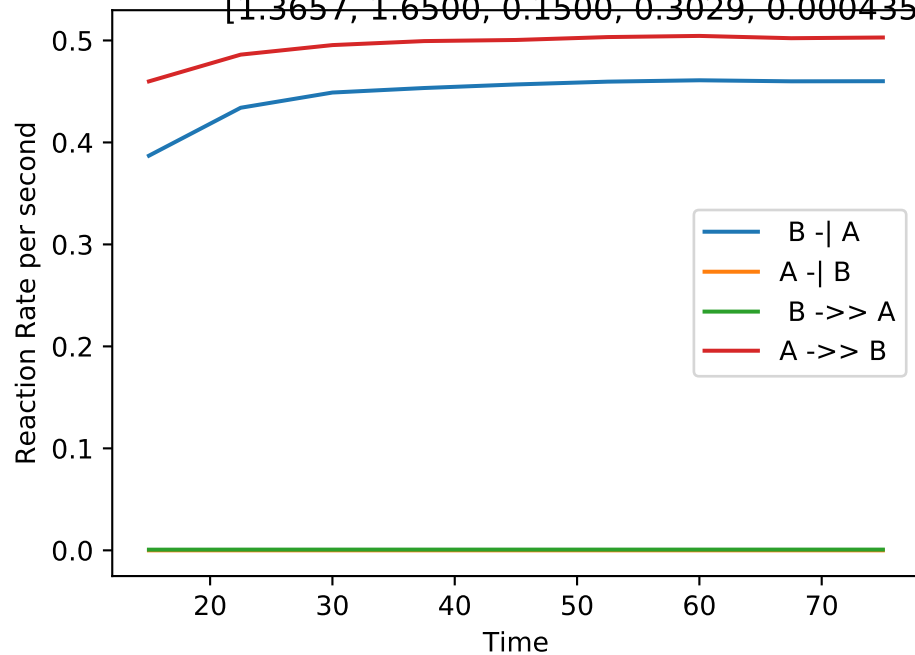
Double_up | MB-LLS Double_up(#266):

[0.0000, 0.0000, 0.2359, 0.0418, 0.001808, 0.001735, 0.0646, 0.2235, 0.0571, 0.0399]



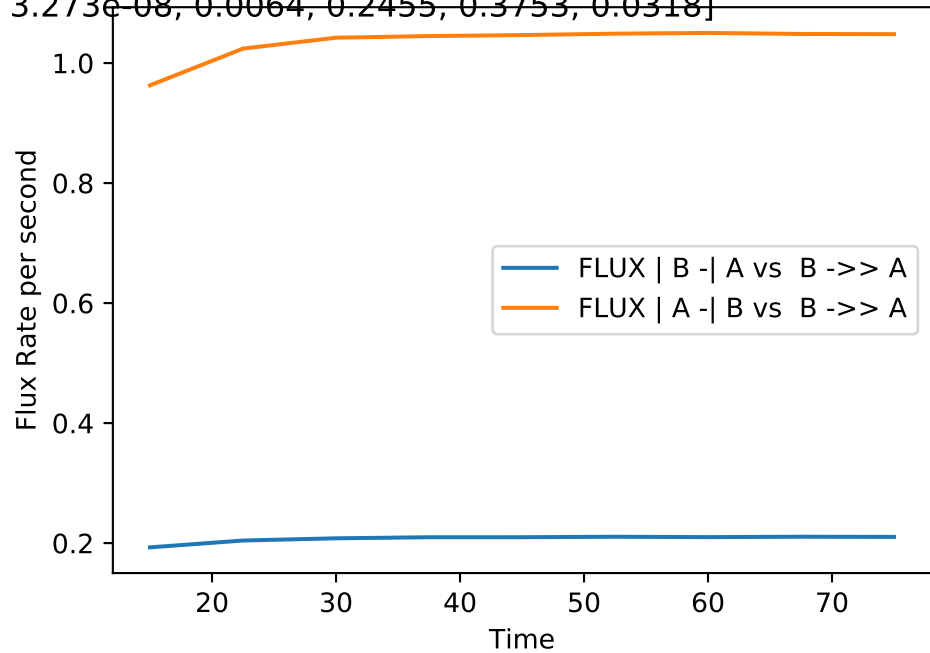
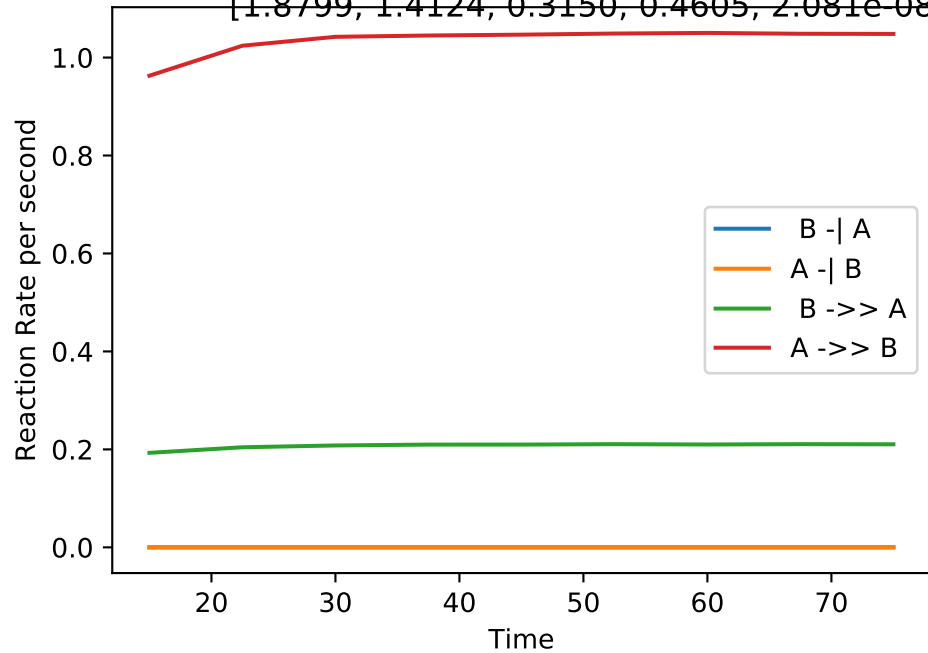
Double_up | MB-LLS Double_up(#267):

[1.3657, 1.6500, 0.1500, 0.3029, 0.0004358, 2.187e-10, 0.0000, 0.1197, 0.2328, 0.0152]



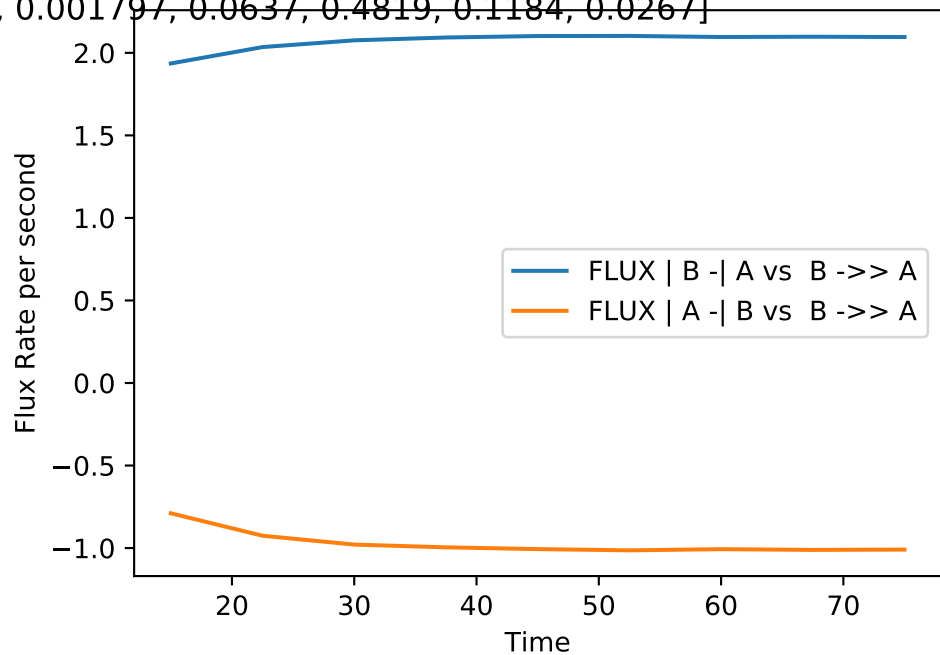
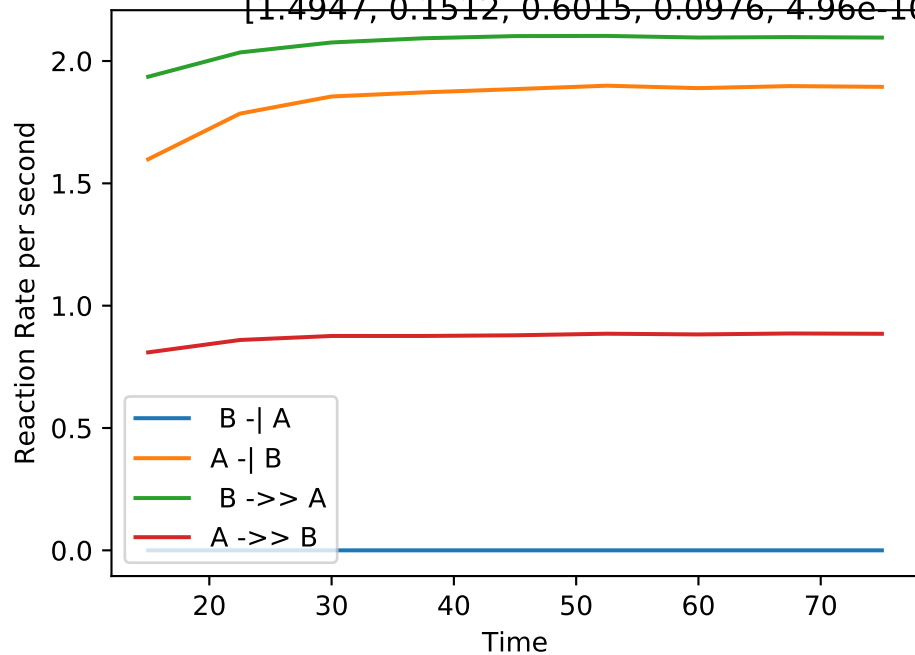
Double_up | MB-LLS Double_up(#268):

[1.8799, 1.4124, 0.3150, 0.4605, 2.081e-08, 3.273e-08, 0.0064, 0.2455, 0.3753, 0.0318]



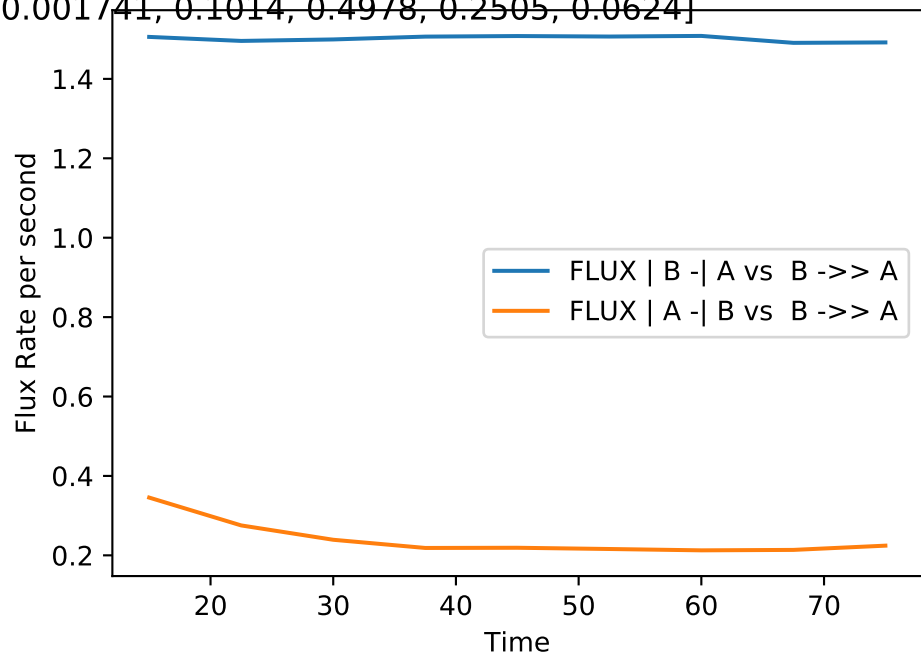
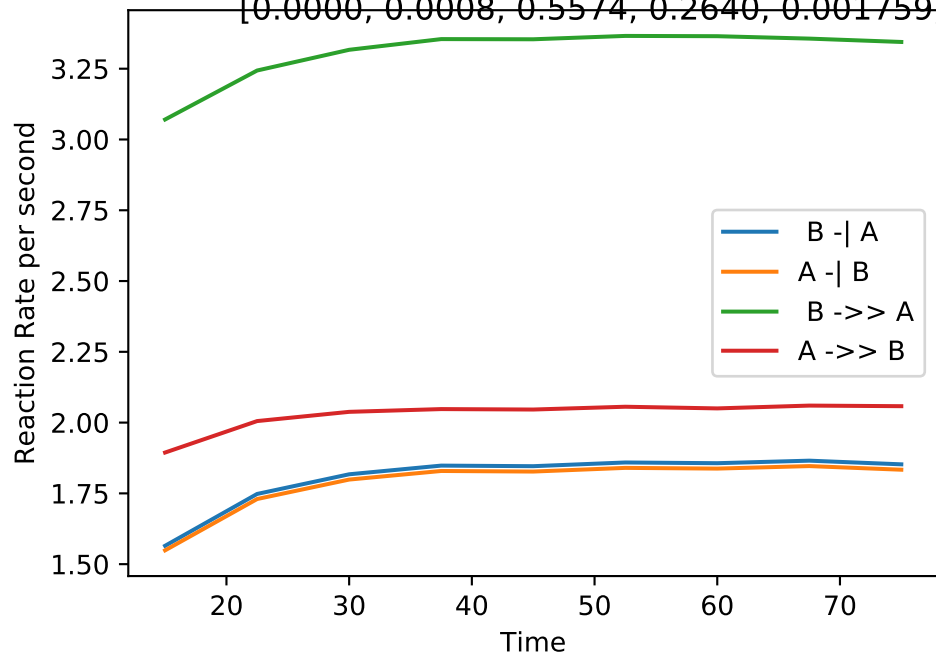
Double_up | MB-LLS Double_up(#269):

[1.4947, 0.1512, 0.6015, 0.0976, 4.96e-10, 0.001797, 0.0637, 0.4819, 0.1184, 0.0267]



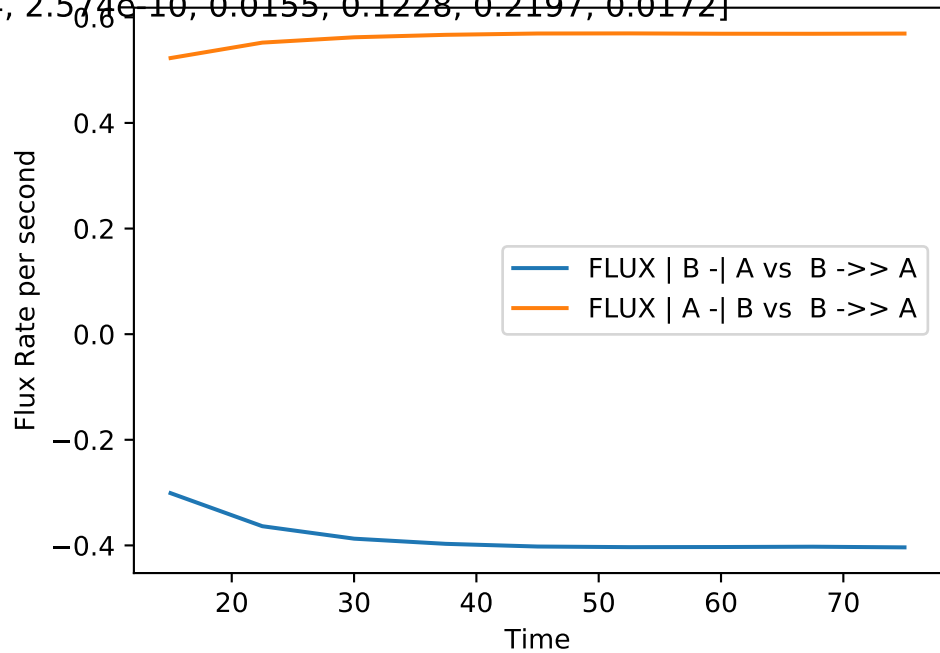
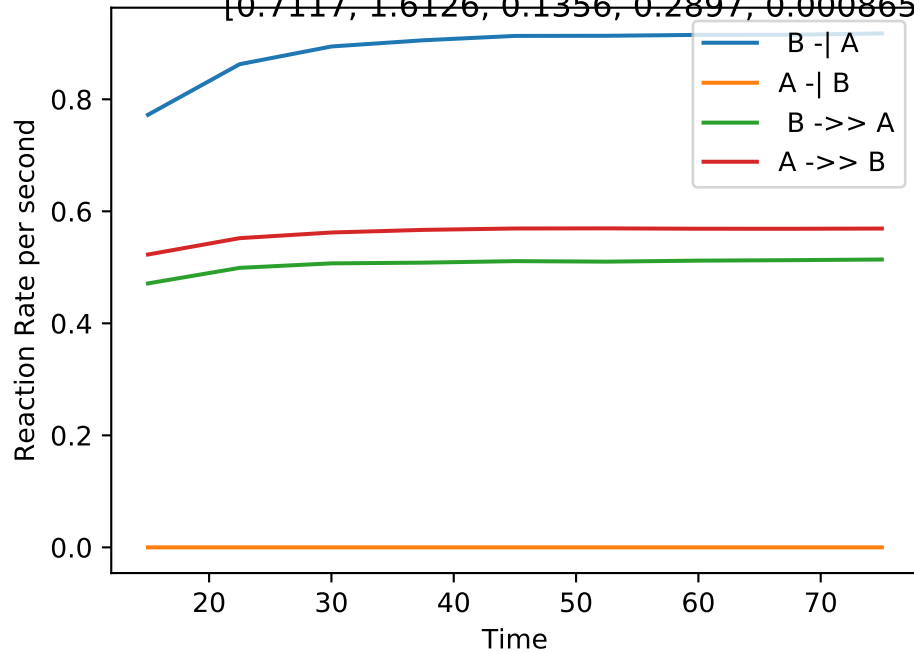
Double_up | MB-LLS Double_up(#270):

[0.0000, 0.0008, 0.5574, 0.2640, 0.001759, 0.001741, 0.1014, 0.4978, 0.2505, 0.0624]



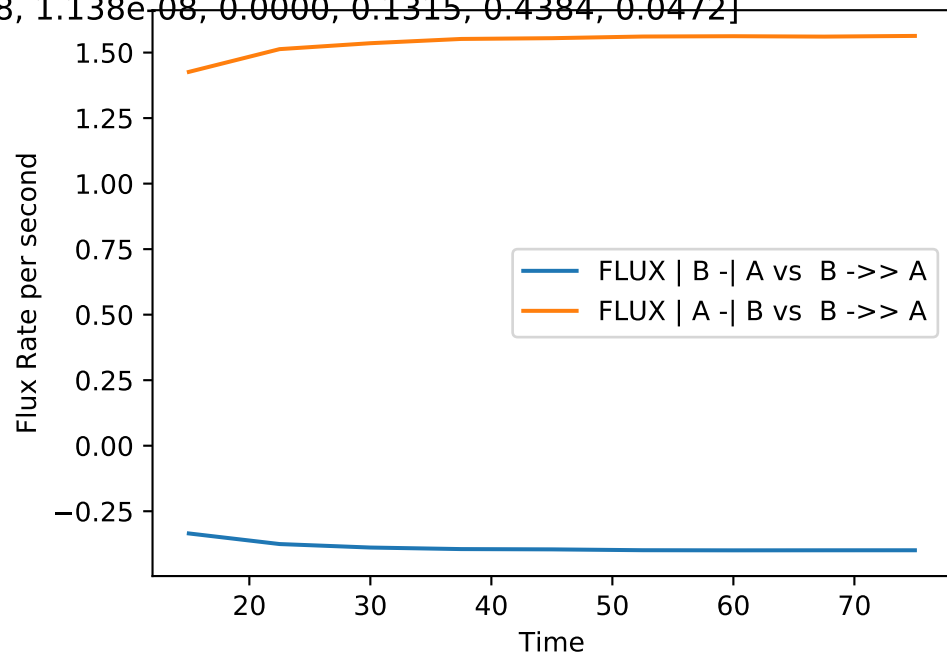
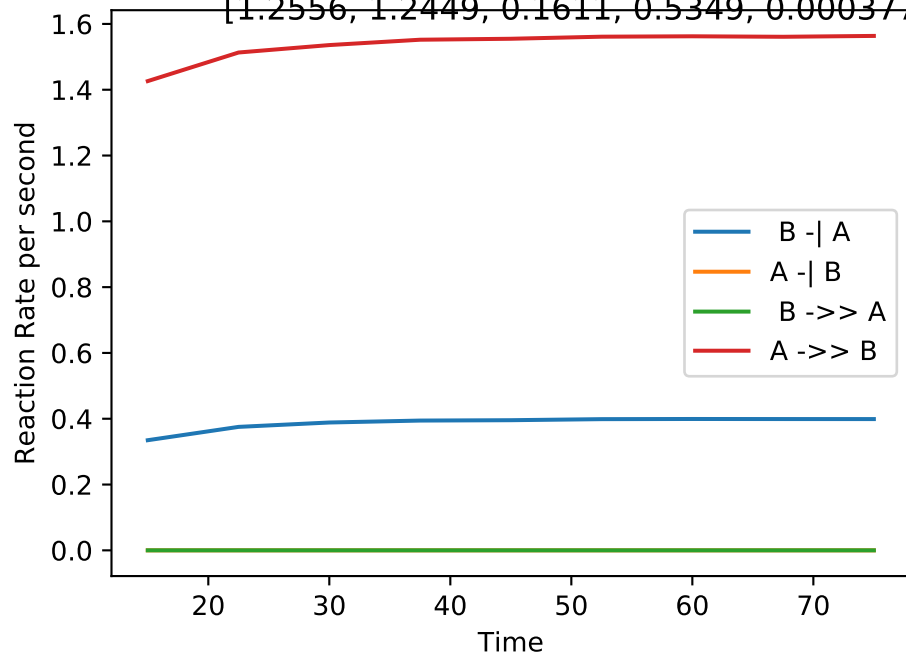
Double_up | MB-LLS Double_up(#271):

[0.7117, 1.6126, 0.1356, 0.2897, 0.0008654, 2.574e-10, 0.0155, 0.1228, 0.2197, 0.0172]



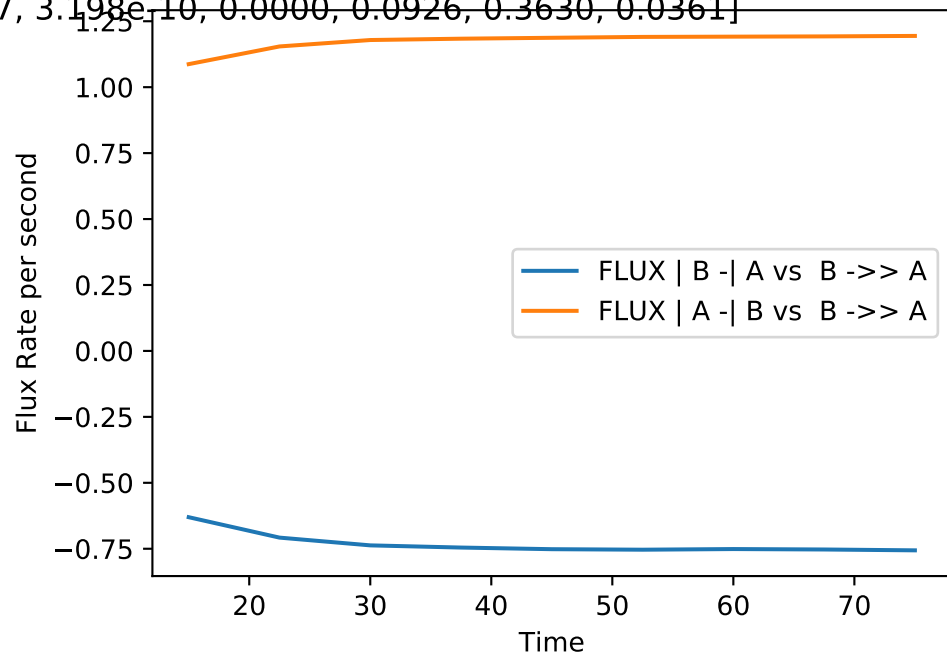
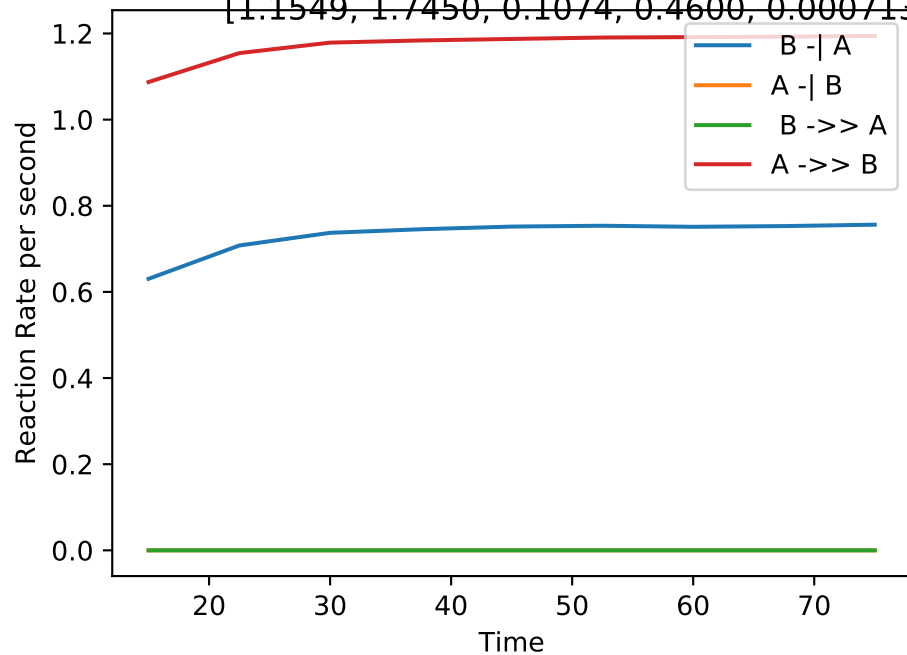
Double_up | MB-LLS Double_up(#272):

[1.2556, 1.2449, 0.1611, 0.5349, 0.0003778, 1.138e-08, 0.0000, 0.1315, 0.4384, 0.0472]



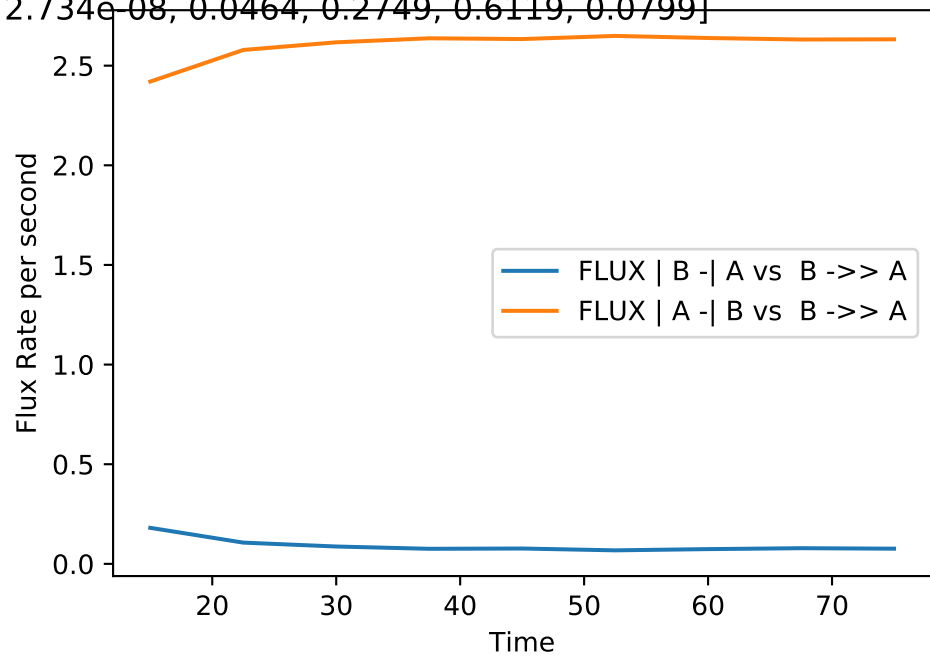
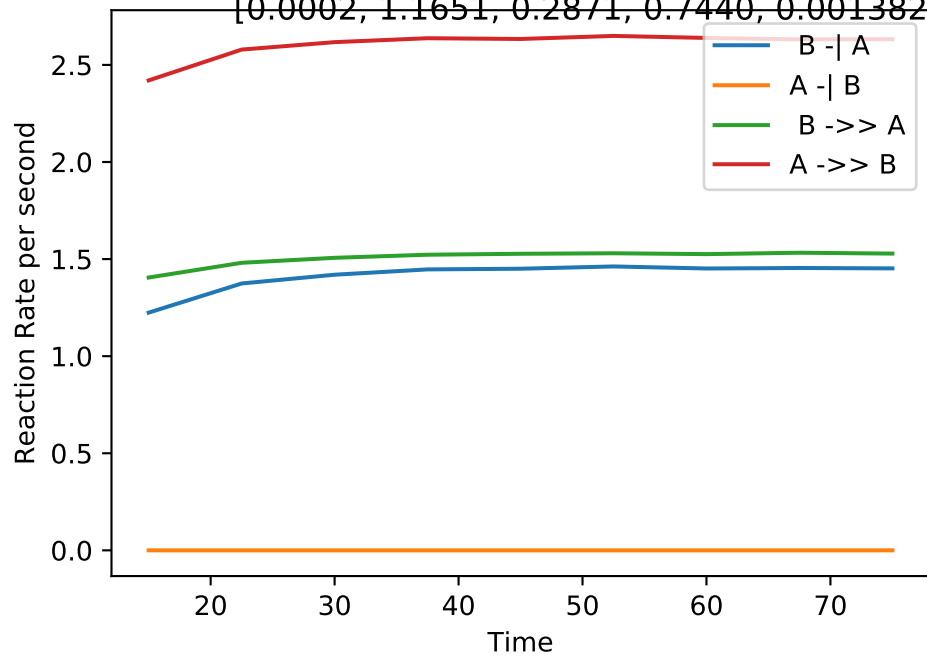
Double_up | MB-LLS Double_up(#273):

[1.1549, 1.7450, 0.1074, 0.4600, 0.0007137, 3.198e-10, 0.0000, 0.0926, 0.3630, 0.0361]



Double_up | MB-LLS Double_up(#274):

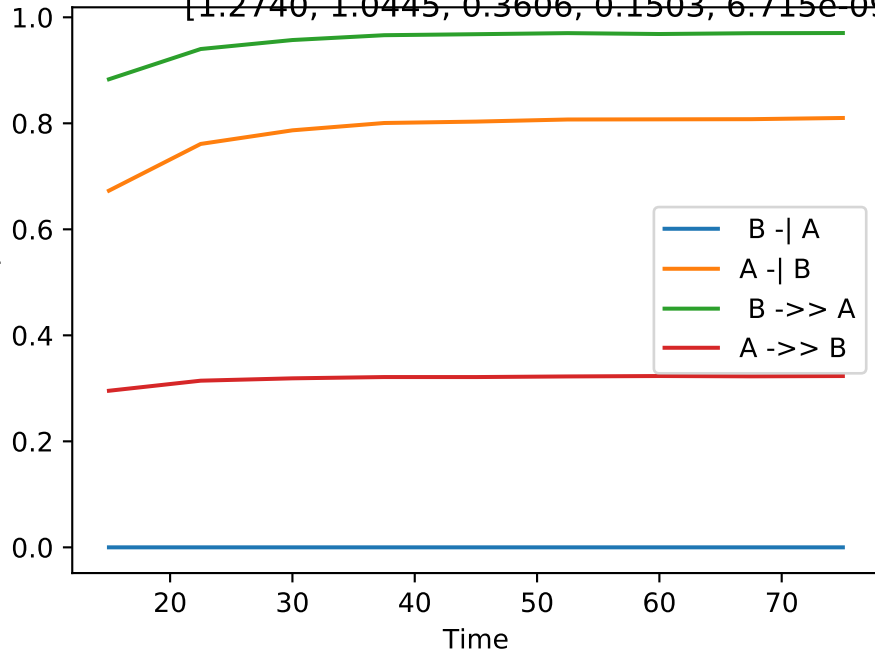
[0.0002, 1.1651, 0.2871, 0.7440, 0.001382, 2.734e-08, 0.0464, 0.2749, 0.6119, 0.0799]



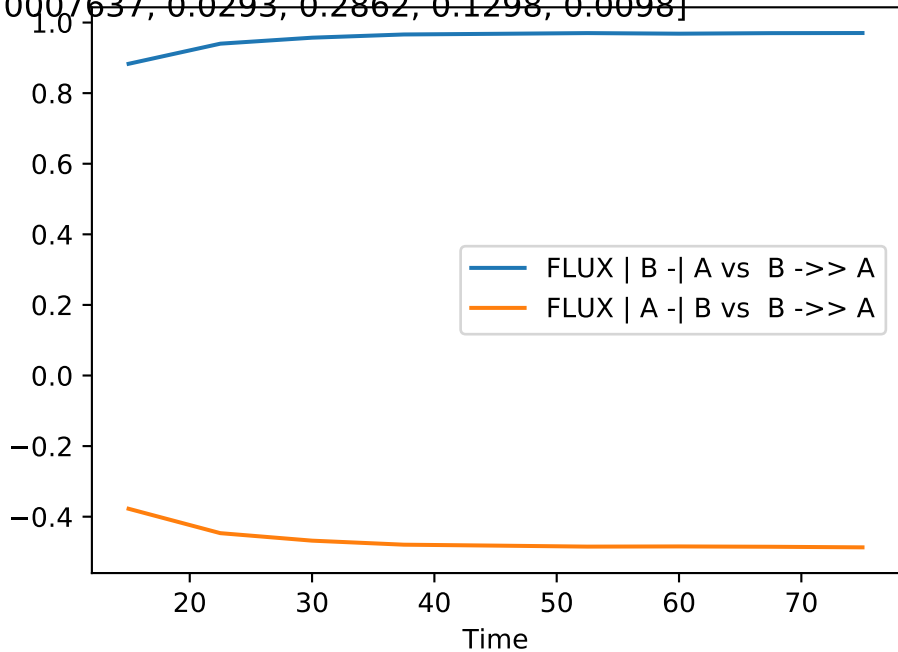
Double_up | MB-LLS Double_up(#275):

[1.2740, 1.0445, 0.3606, 0.1503, 6.715e-09, 0.0007637, 0.0293, 0.2862, 0.1298, 0.0098]

Reaction Rate per second



Flux Rate per second



Double_up | MB-LLS Double_up(#276):

[1.4752, 1.6138, 0.7739, 0.2217, 1.534e-09, 0.0004954, 0.0776, 0.6343, 0.1830, 0.0000]

Reaction Rate per second

2.5
2.0
1.5
1.0
0.5
0.0

20

30

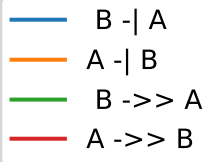
40

50

60

70

Time



Flux Rate per second

2.5
2.0
1.5
1.0
0.5
0.0
-0.5

20

30

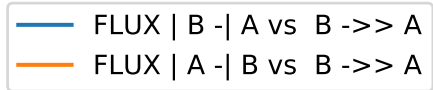
40

50

60

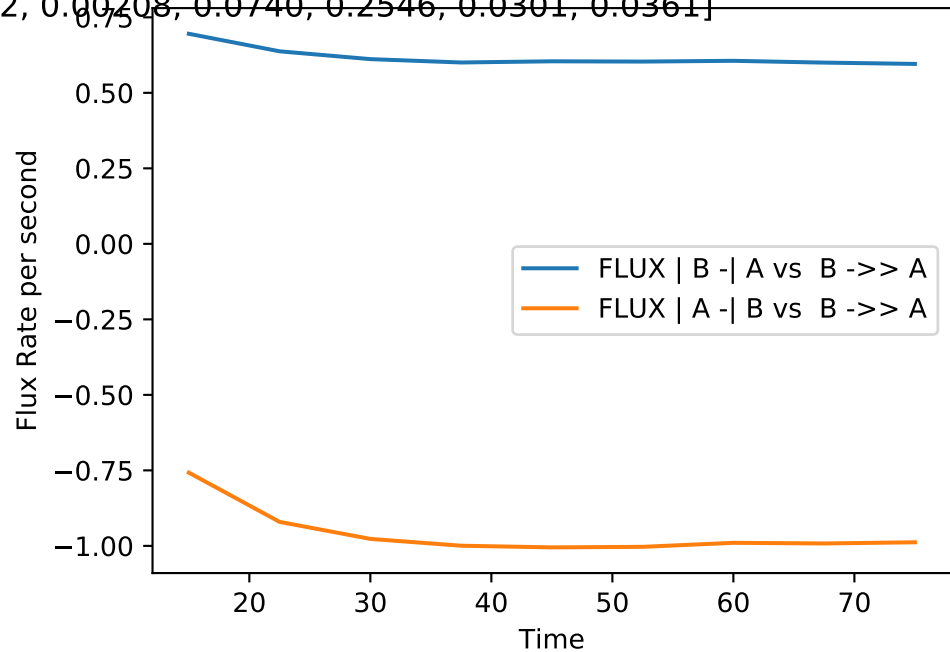
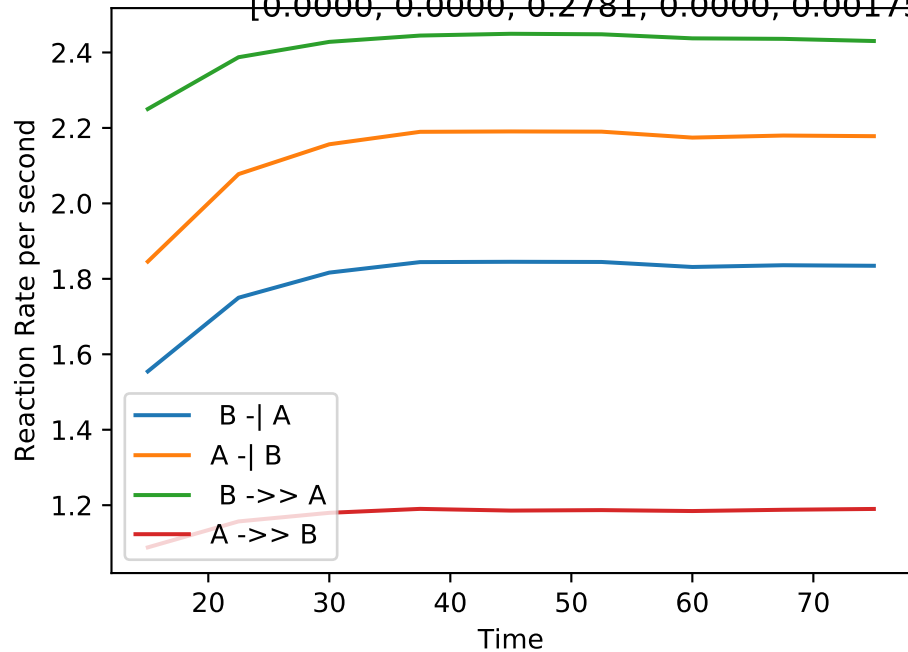
70

Time



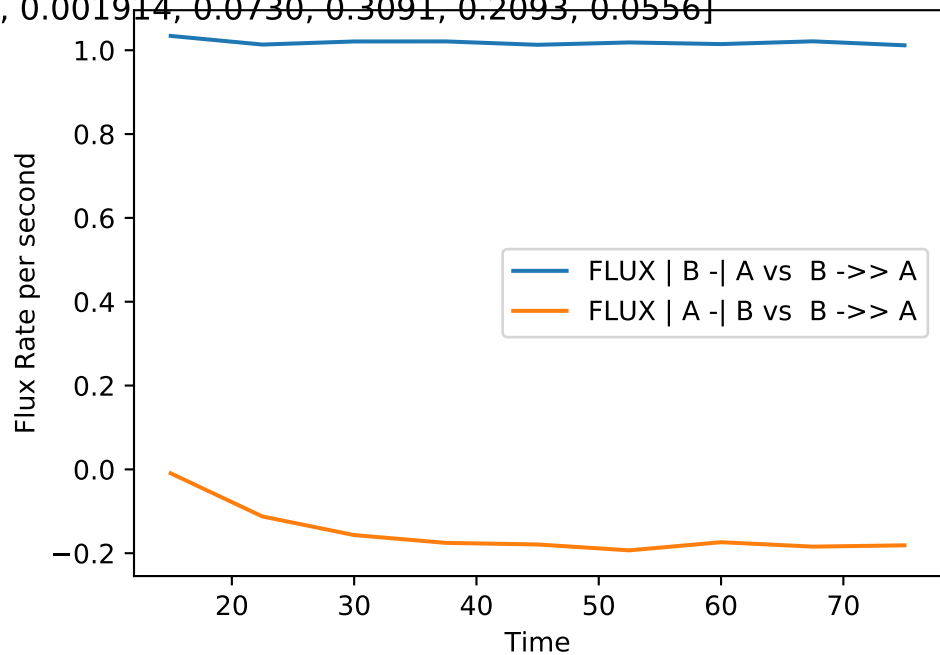
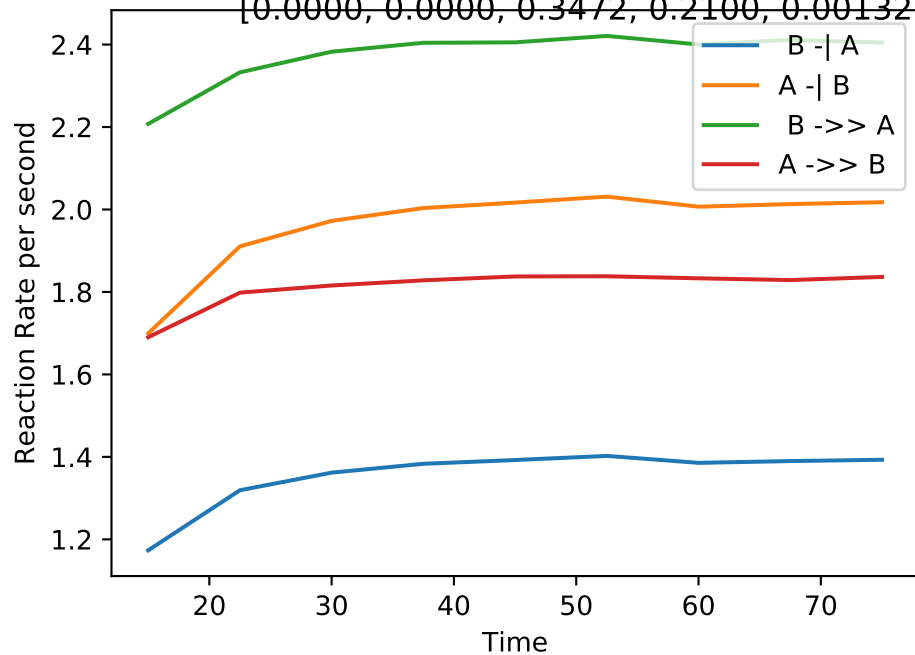
Double_up | MB-LLS Double_up(#277):

[0.0000, 0.0000, 0.2781, 0.0000, 0.001752, 0.00208, 0.0740, 0.2546, 0.0301, 0.0361]



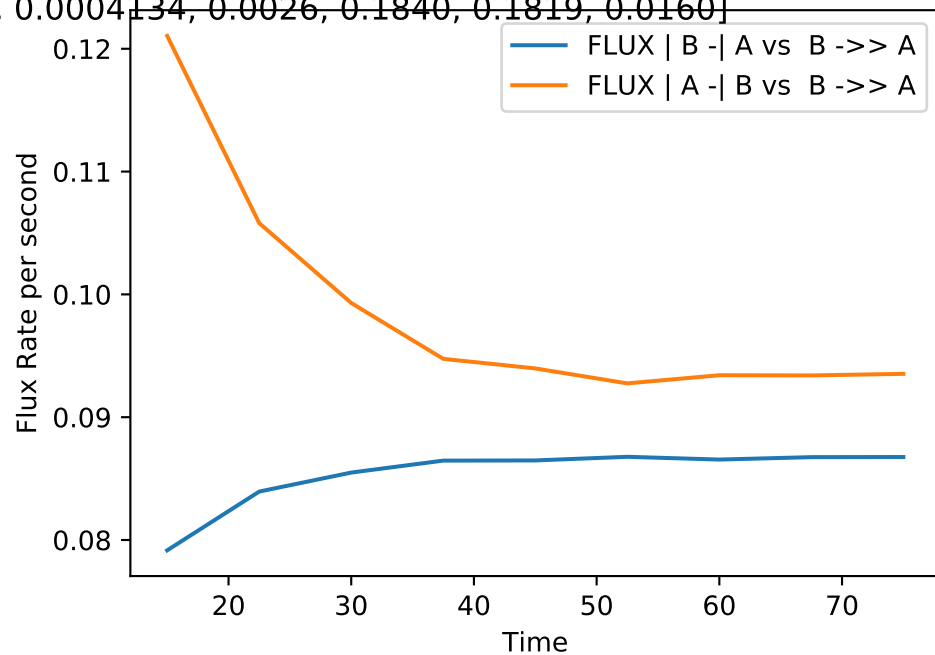
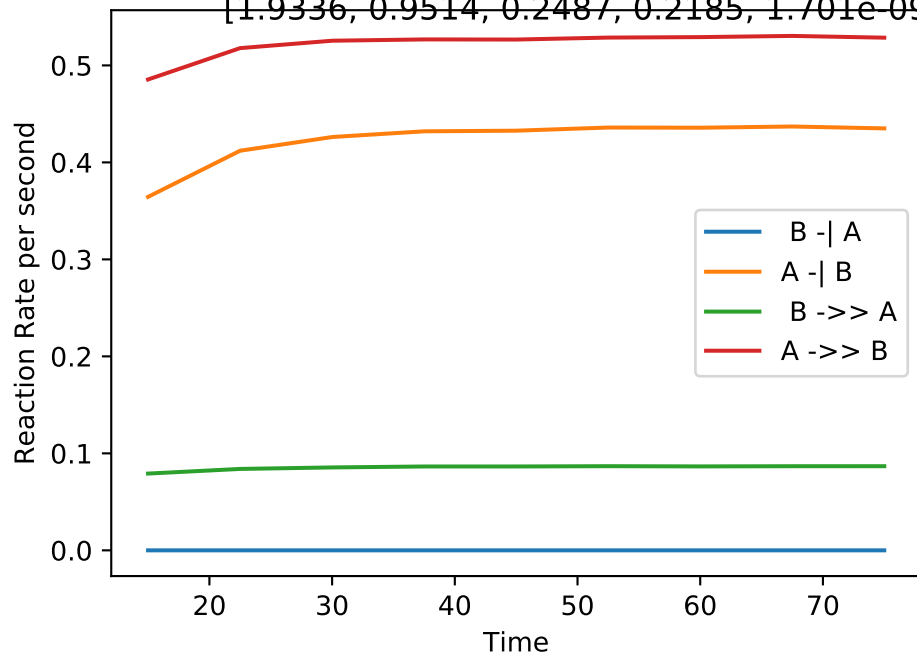
Double_up | MB-LLS Double_up(#278):

[0.0000, 0.0000, 0.3472, 0.2100, 0.001321, 0.001914, 0.0730, 0.3091, 0.2093, 0.0556]



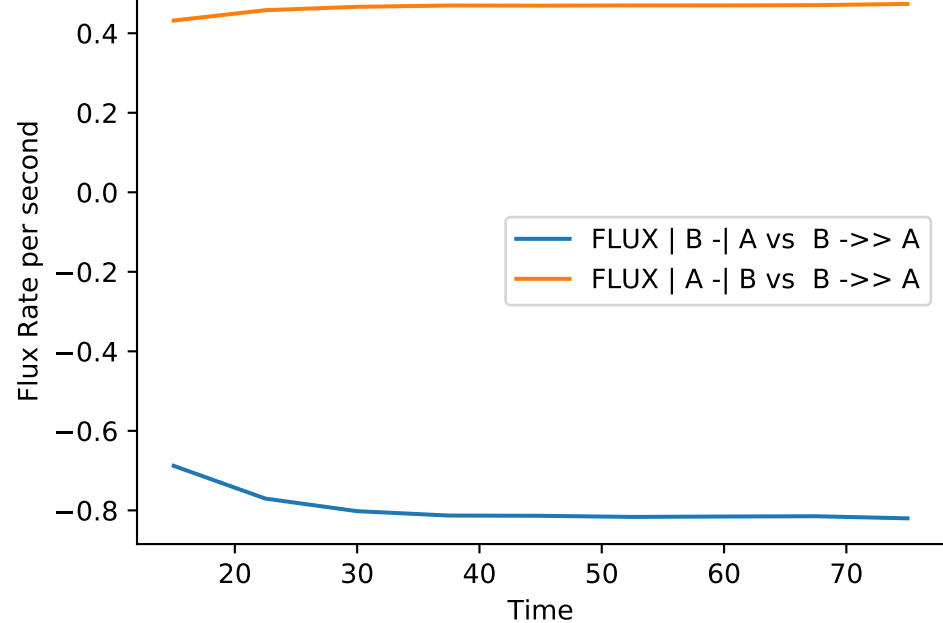
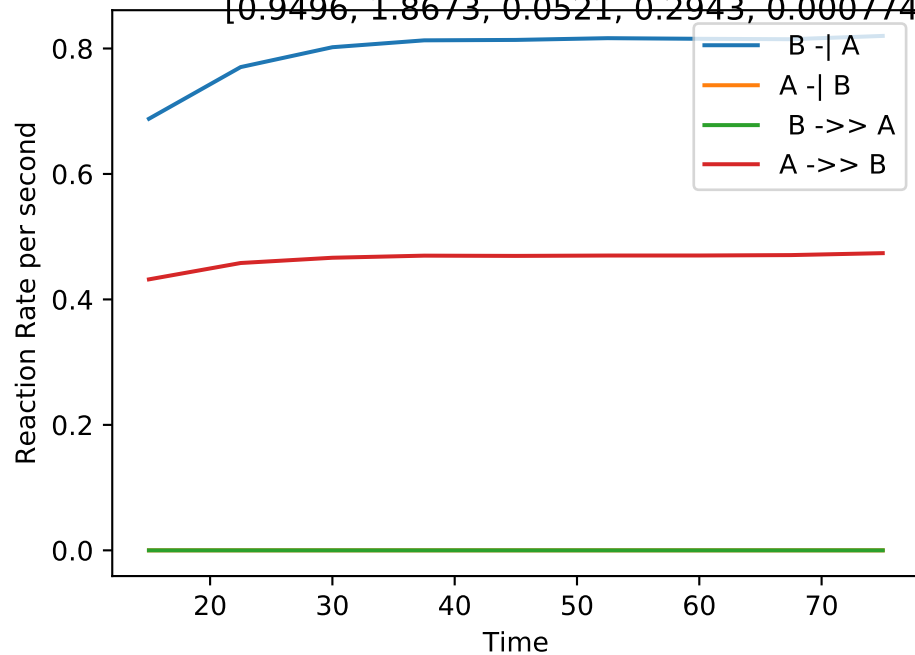
Double_up | MB-LLS Double_up(#279):

[1.9336, 0.9514, 0.2487, 0.2185, 1.701e-09, 0.0004134, 0.0026, 0.1840, 0.1819, 0.0160]



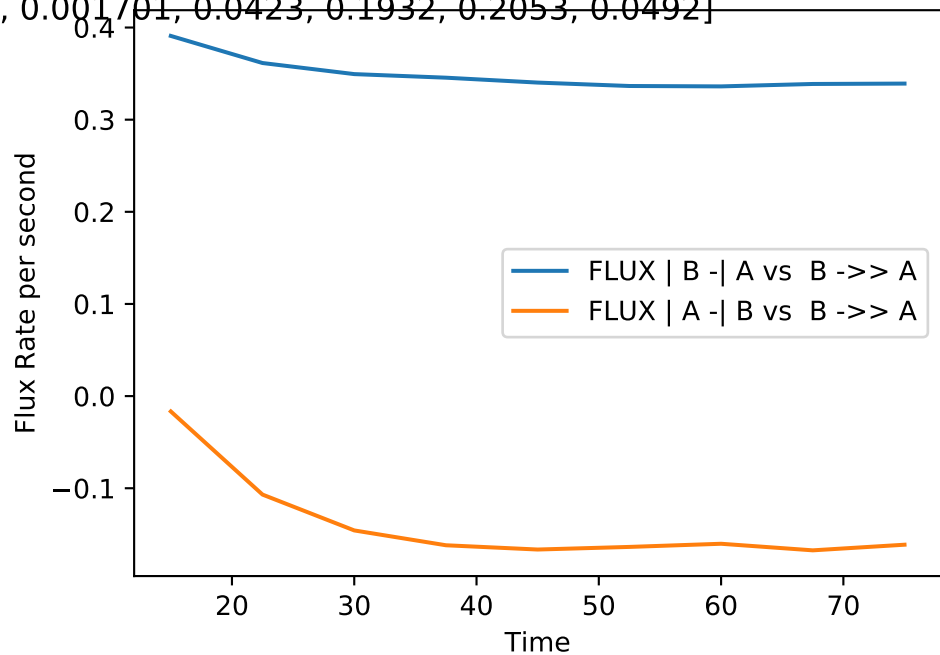
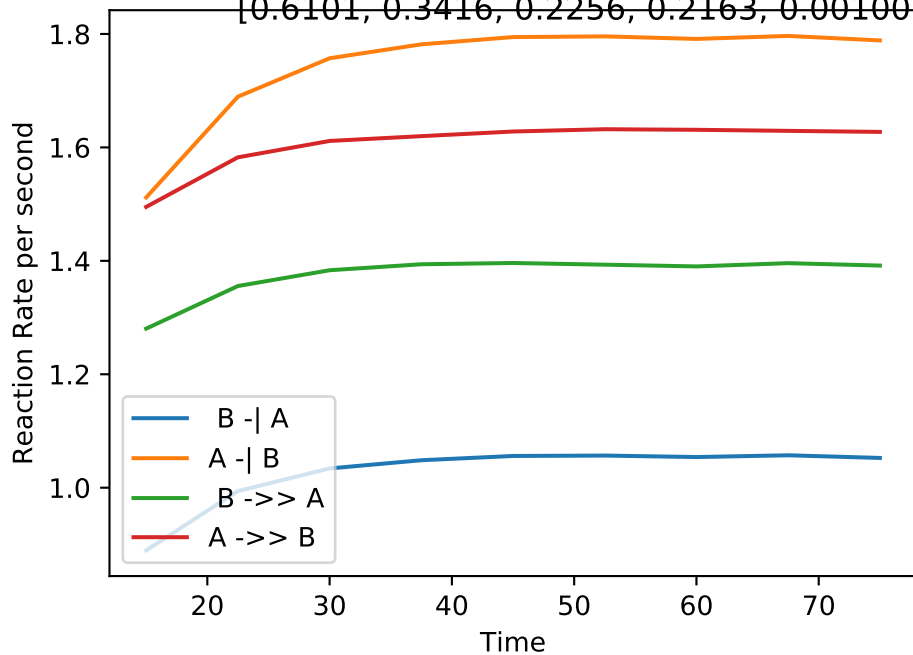
Double_up | MB-LLS Double_up(#280):

[0.9496, 1.8673, 0.0521, 0.2943, 0.0007742, 1.237e-08, 0.0000, 0.0473, 0.2200, 0.0143]



Double_up | MB-LLS Double_up(#281):

[0.6101, 0.3416, 0.2256, 0.2163, 0.001001, 0.001701, 0.0423, 0.1932, 0.2053, 0.0492]

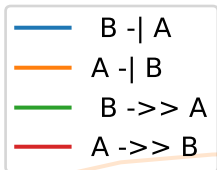


Double_up | MB-LLS Double_up(#282):

[1.7275, 1.4917, 0.3428, 0.1825, 2.885e-10, 0.0001987, 0.0167, 0.2677, 0.1404, 0.0000]

Reaction Rate per second

0.5
0.4
0.3
0.2
0.1
0.0



Time

Flux Rate per second

0.5
0.4
0.3
0.2
0.1
0.0
-0.1
-0.2

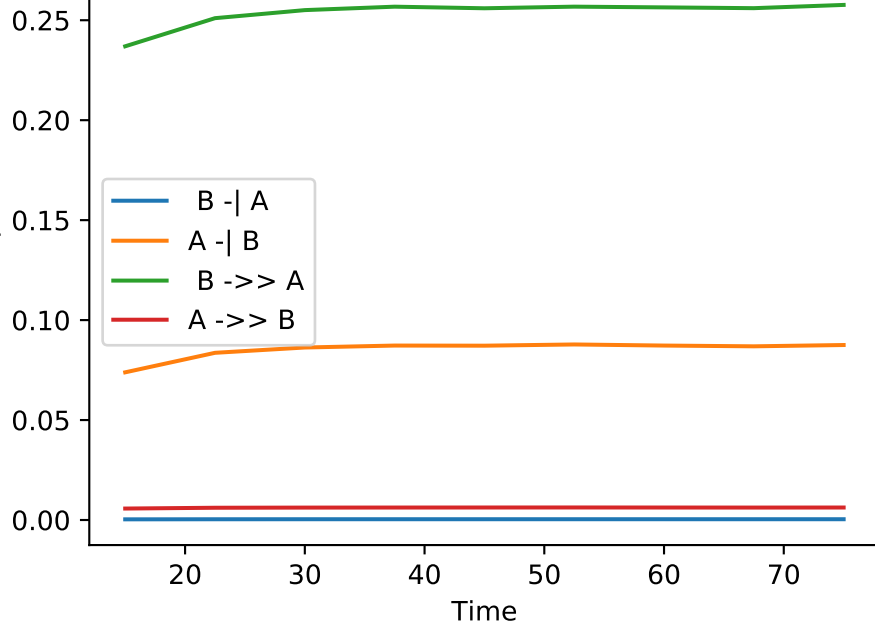


Time

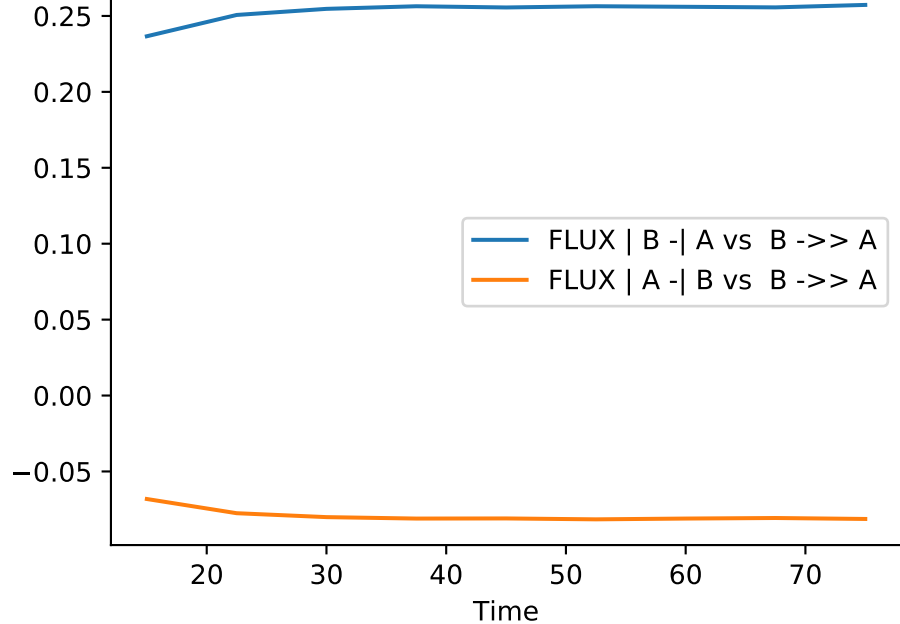
Double_up | MB-LLS Double_up(#283):

[1.4501, 1.5460, 0.2517, 0.1894, 3.732e-07, 8.32e-05, 0.0078, 0.1952, 0.1422, 0.0002]

Reaction Rate per second

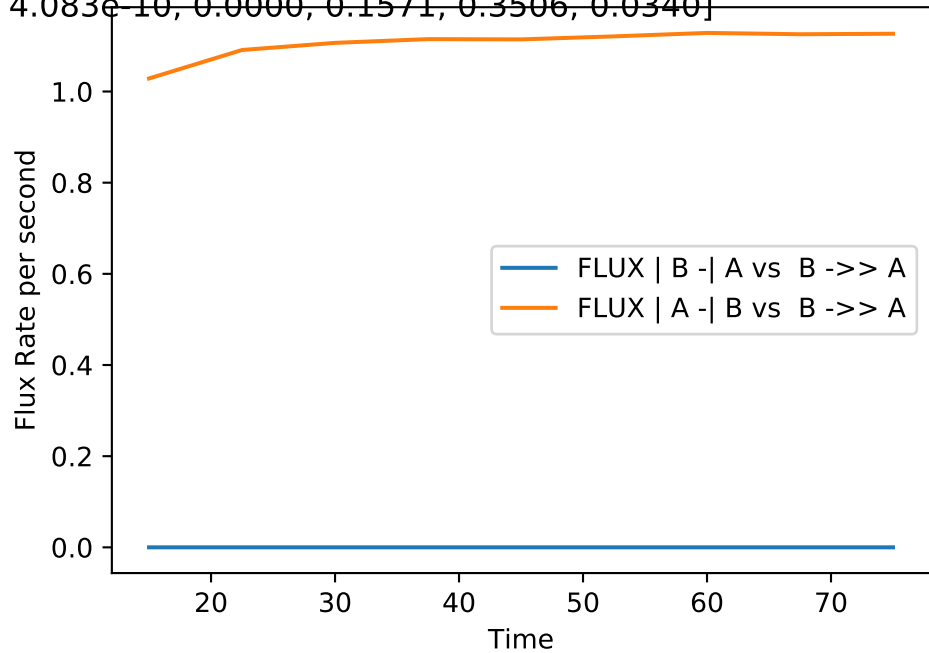
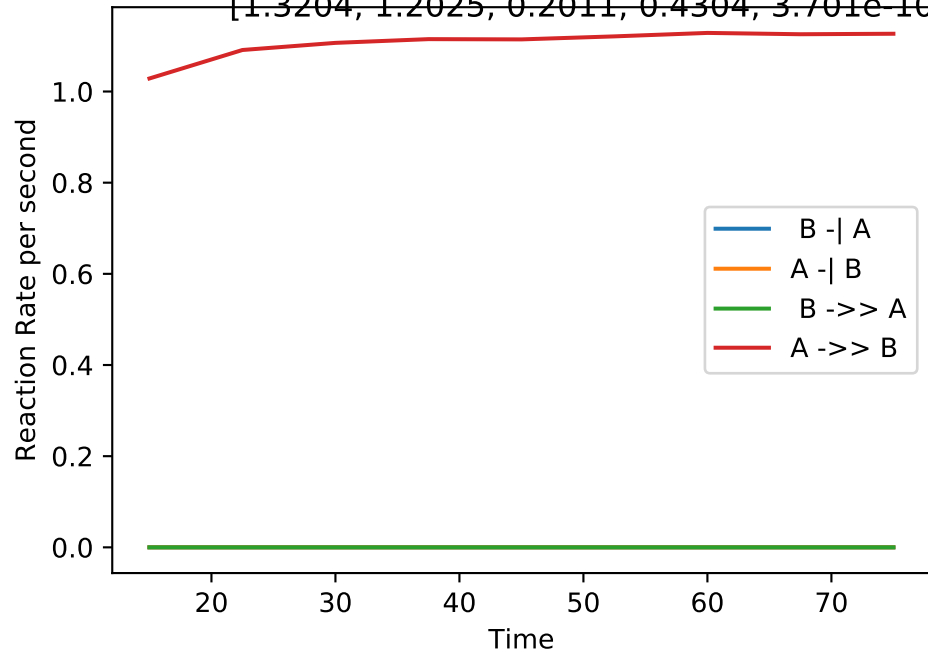


Flux Rate per second



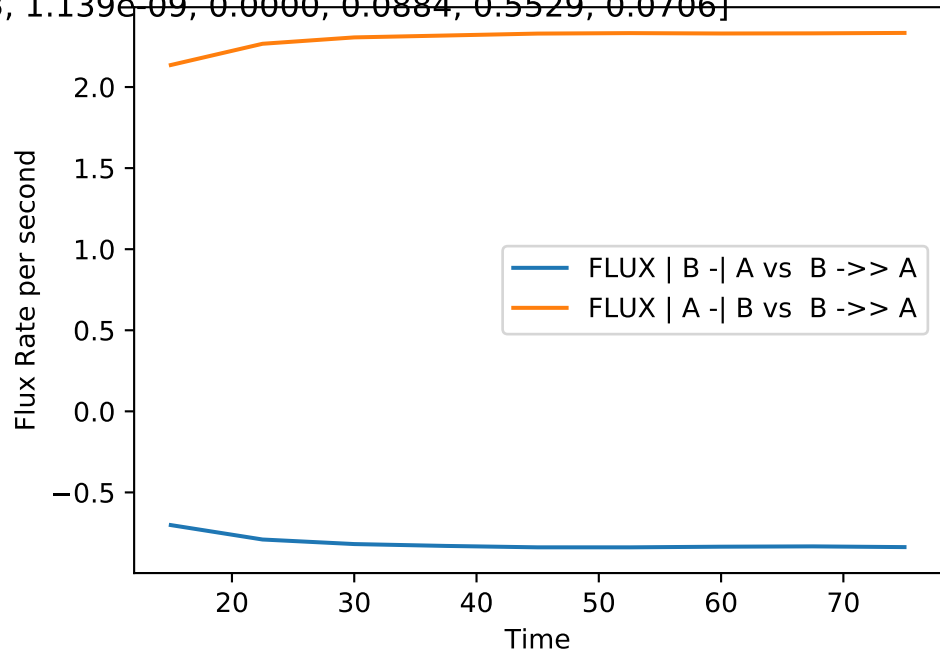
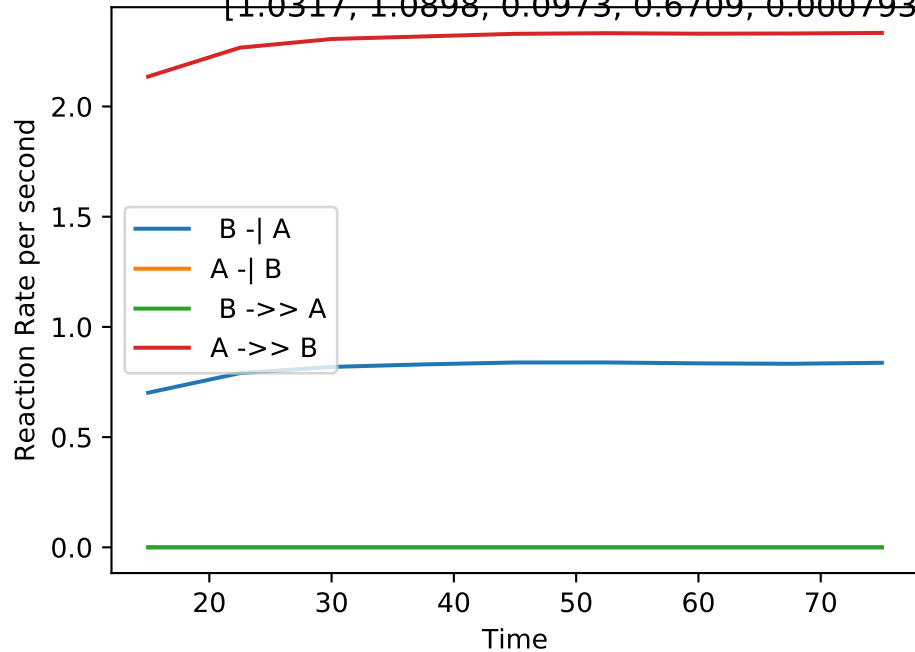
Double_up | MB-LLS Double_up(#284):

[1.3204, 1.2025, 0.2011, 0.4304, 3.701e-10, 4.083e-10, 0.0000, 0.1571, 0.3506, 0.0340]



Double_up | MB-LLS Double_up(#285):

[1.0317, 1.0898, 0.0973, 0.6709, 0.0007933, 1.139e-09, 0.0000, 0.0884, 0.5529, 0.0706]



Double_up | MB-LLS Double_up(#286):

[1.2095, 1.4808, 0.1399, 0.4408, 0.0003634, 2.005e-07, 0.0000, 0.1121, 0.3542, 0.0327]

Reaction Rate per second

1.0
0.8
0.6
0.4
0.2
0.0

B -| A
A -| B
B ->> A
A ->> B

Time

Flux Rate per second

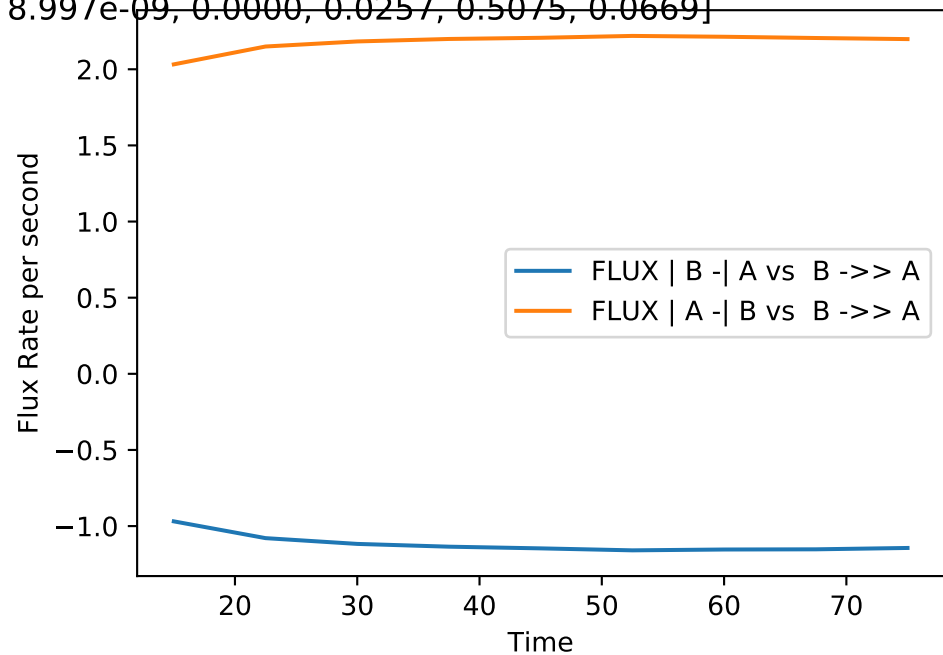
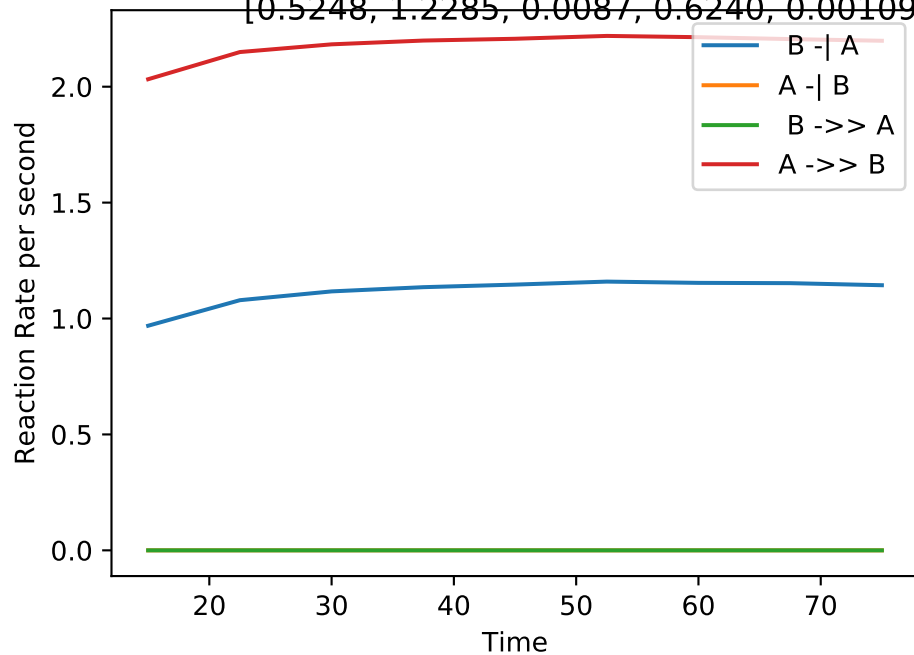
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
-0.4

FLUX | B -| A vs B ->> A
FLUX | A -| B vs B ->> A

Time

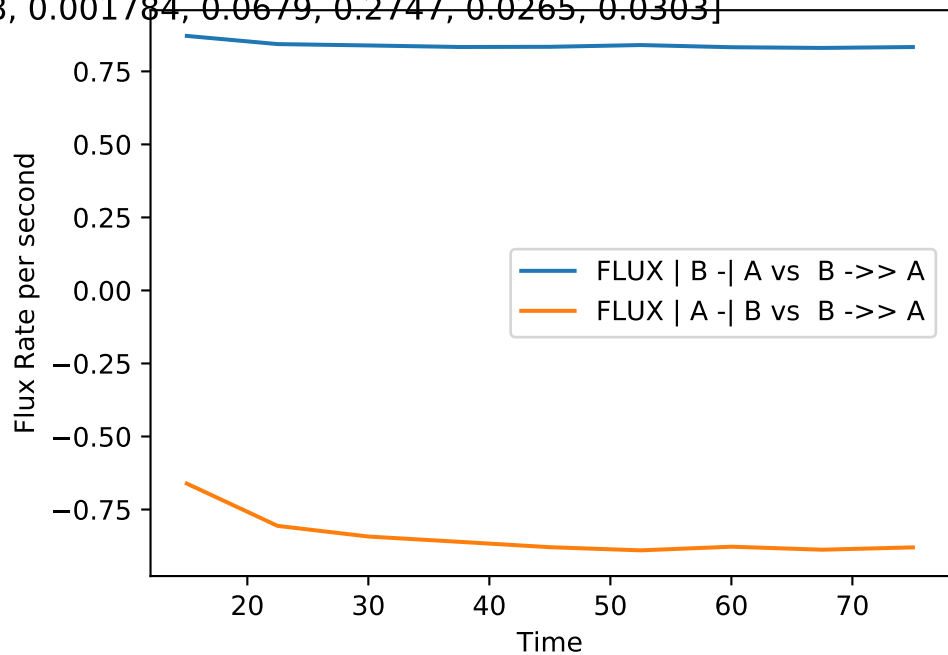
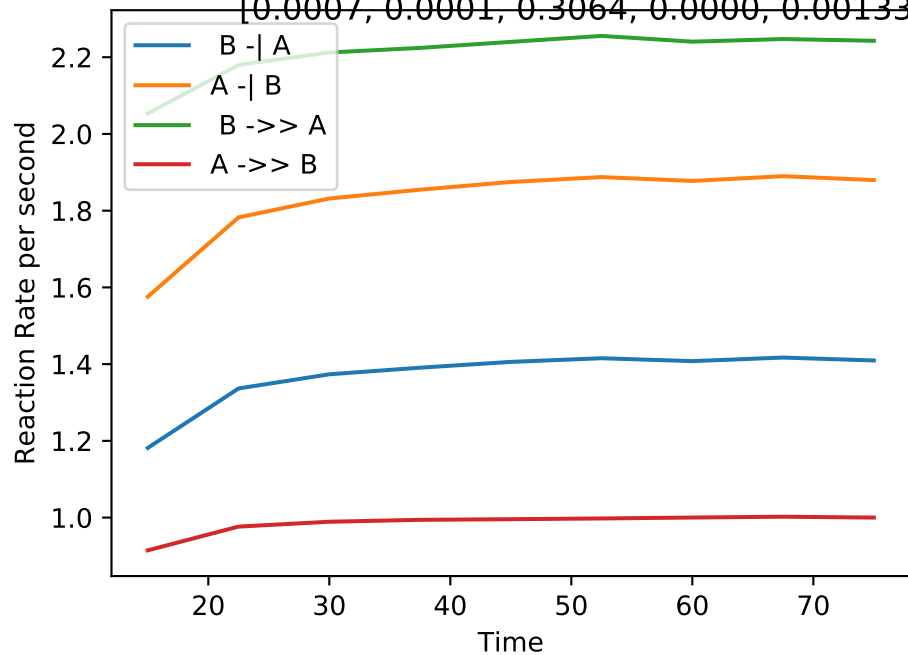
Double_up | MB-LLS Double_up(#287):

[0.5248, 1.2285, 0.0087, 0.6240, 0.00109, 8.997e-09, 0.0000, 0.0257, 0.5075, 0.0669]



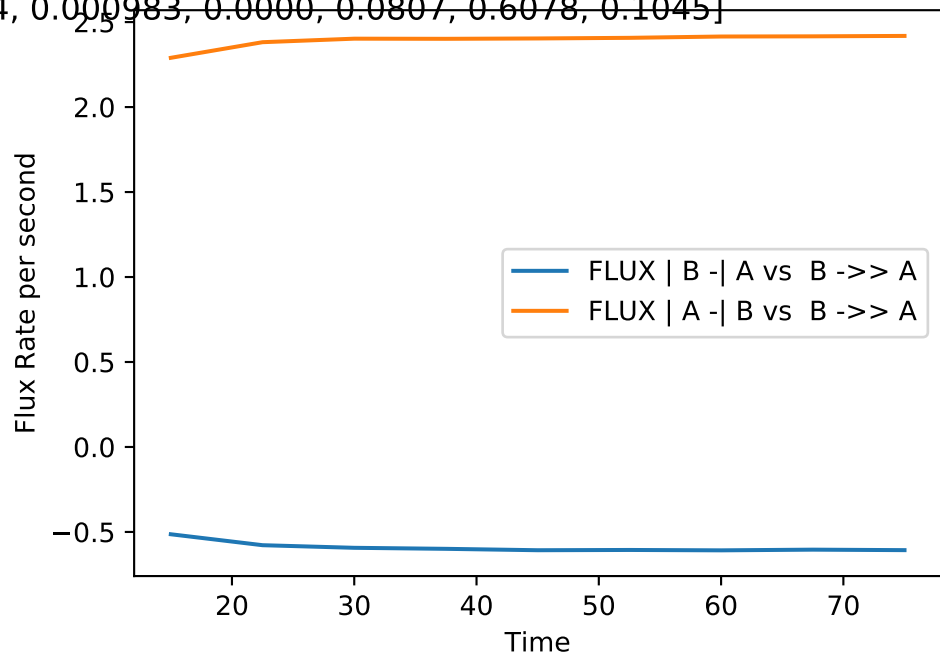
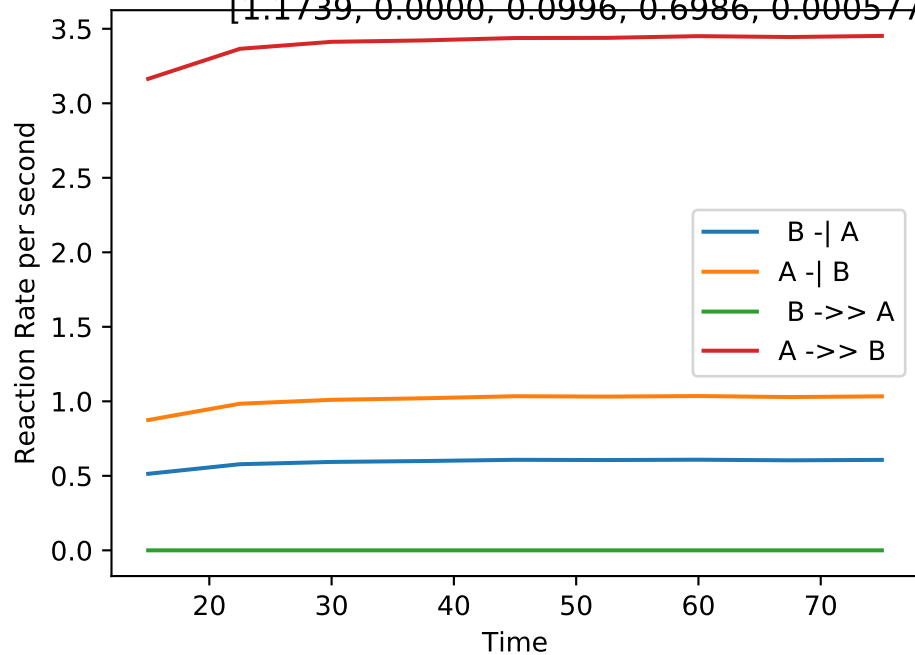
Double_up | MB-LLS Double_up(#288):

[0.0007, 0.0001, 0.3064, 0.0000, 0.001338, 0.001784, 0.0679, 0.2747, 0.0265, 0.0303]



Double_up | MB-LLS Double_up(#289):

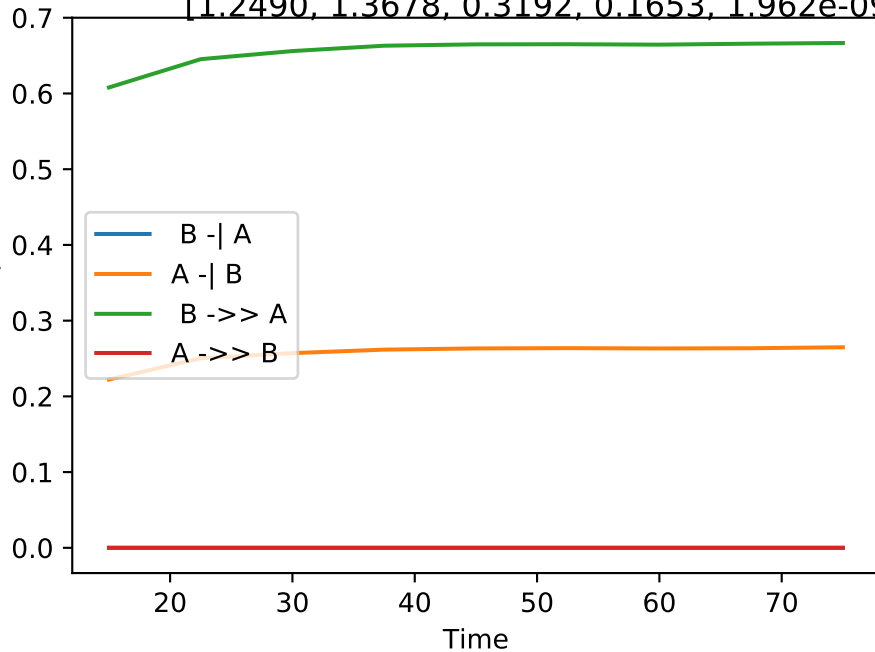
[1.1739, 0.0000, 0.0996, 0.6986, 0.0005774, 0.000983, 0.0000, 0.0807, 0.6078, 0.1045]



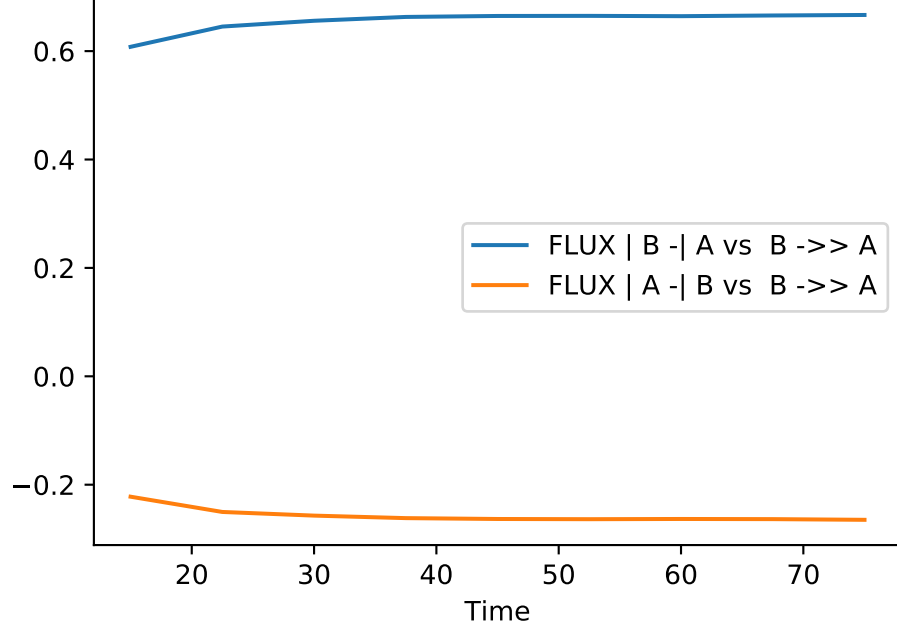
Double_up | MB-LLS Double_up(#290):

[1.2490, 1.3678, 0.3192, 0.1653, 1.962e-09, 0.0002502, 0.0201, 0.2549, 0.1290, 0.0000]

Reaction Rate per second

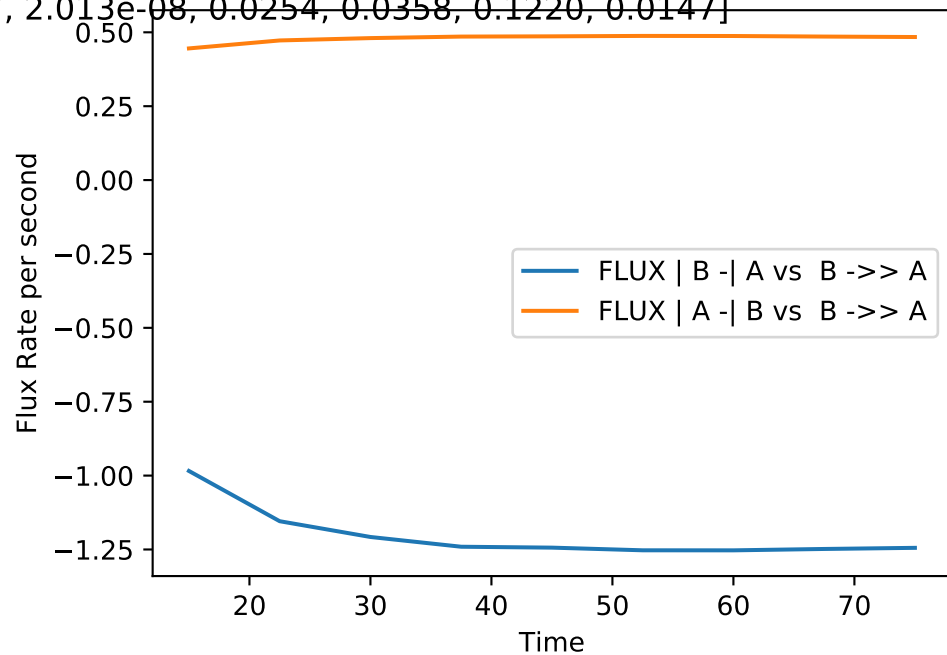
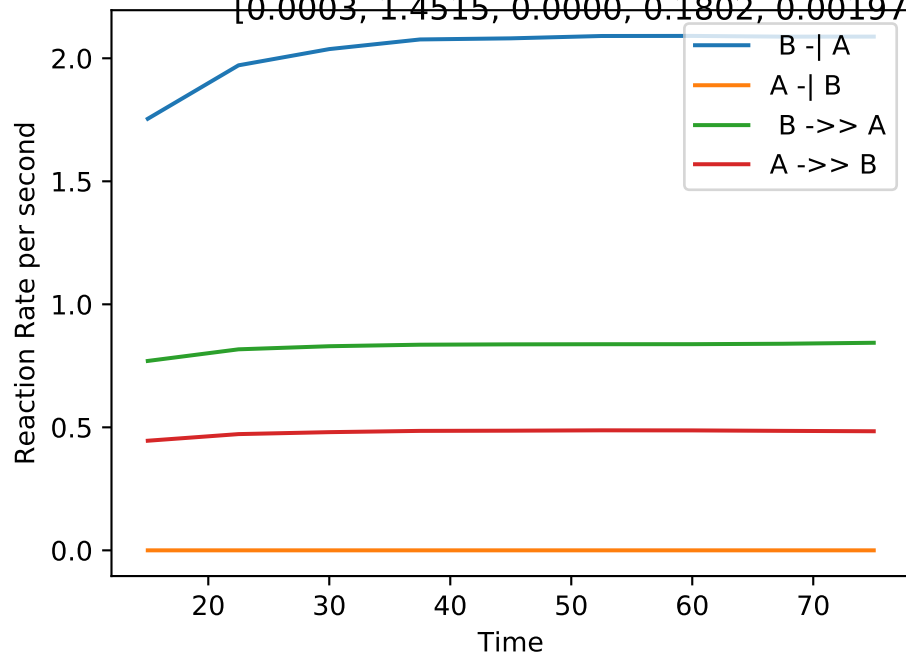


Flux Rate per second



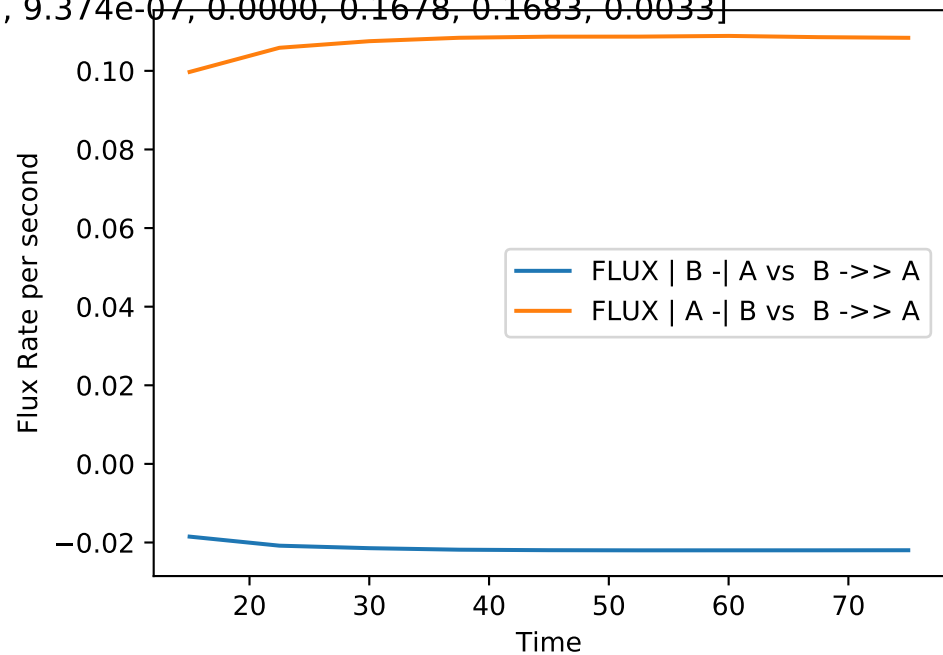
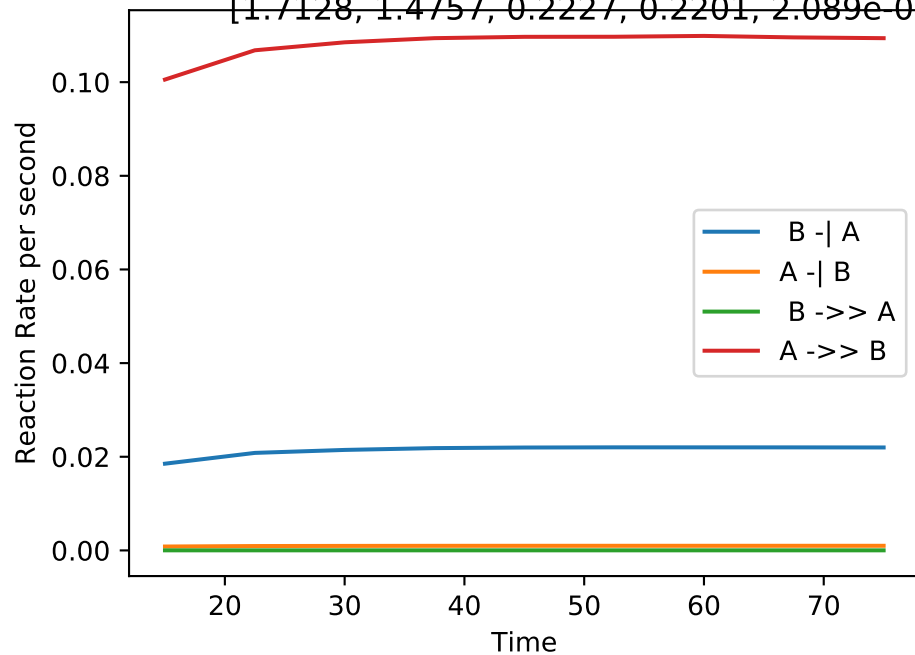
Double_up | MB-LLS Double_up(#291):

[0.0003, 1.4515, 0.0000, 0.1802, 0.001977, 2.013e-08, 0.0254, 0.0358, 0.1220, 0.0147]



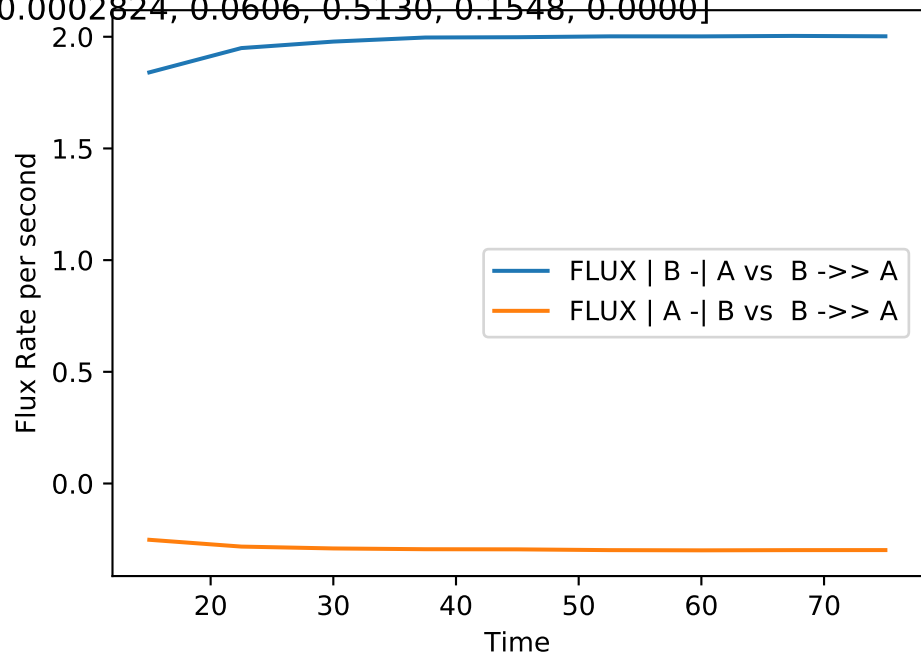
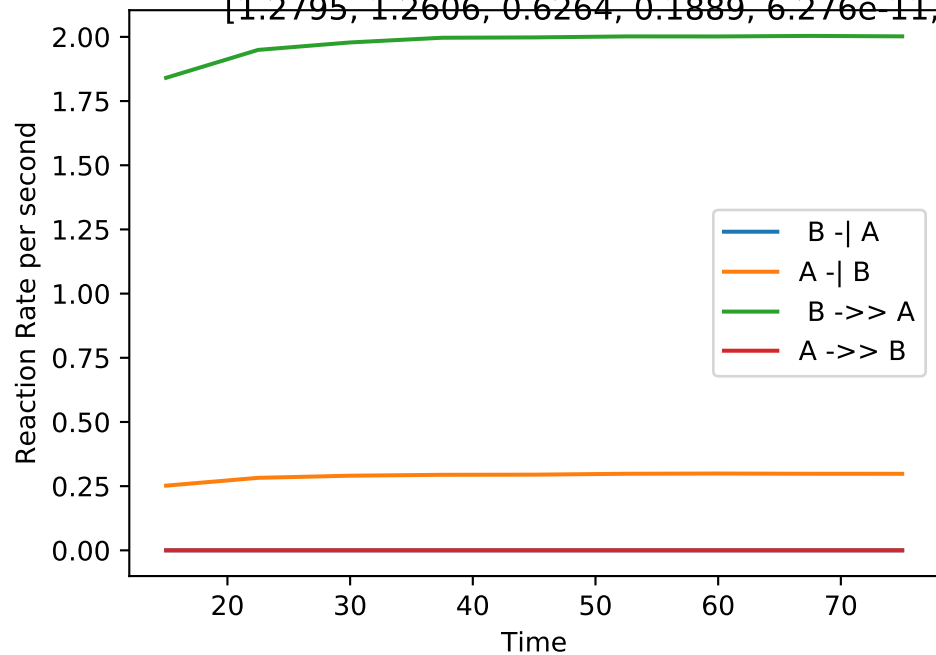
Double_up | MB-LLS Double_up(#292):

[1.7128, 1.4757, 0.2227, 0.2201, 2.089e-05, 9.374e-07, 0.0000, 0.1678, 0.1683, 0.0033]



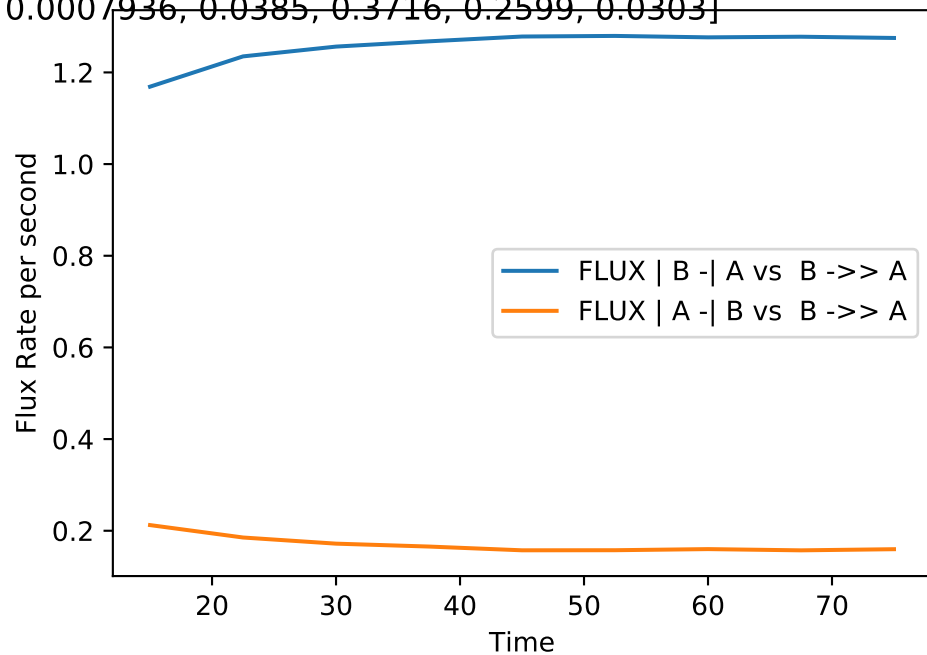
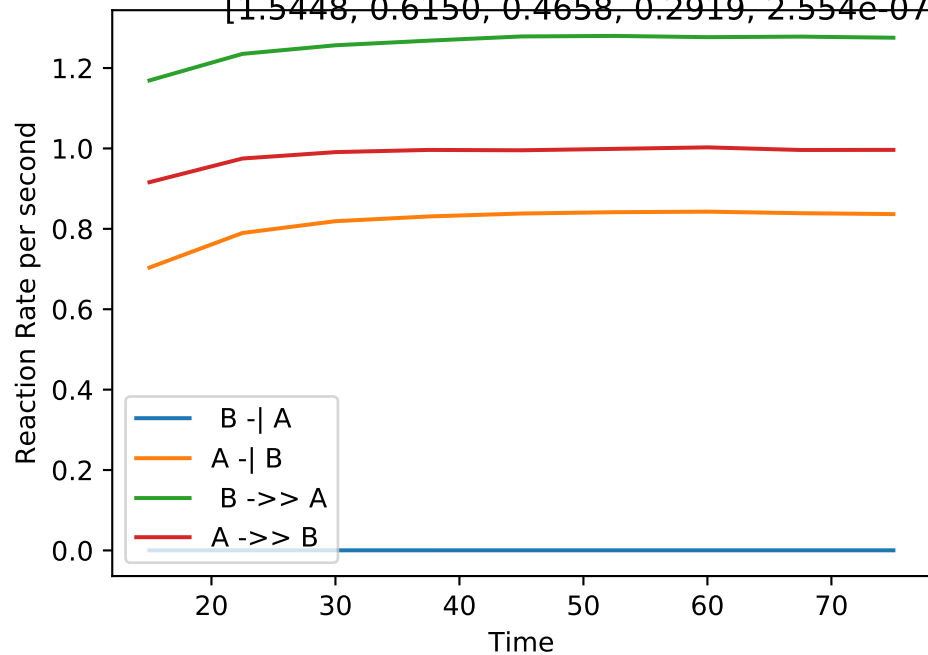
Double_up | MB-LLS Double_up(#293):

[1.2795, 1.2606, 0.6264, 0.1889, 6.276e-11, 0.0002824, 0.0606, 0.5130, 0.1548, 0.0000]



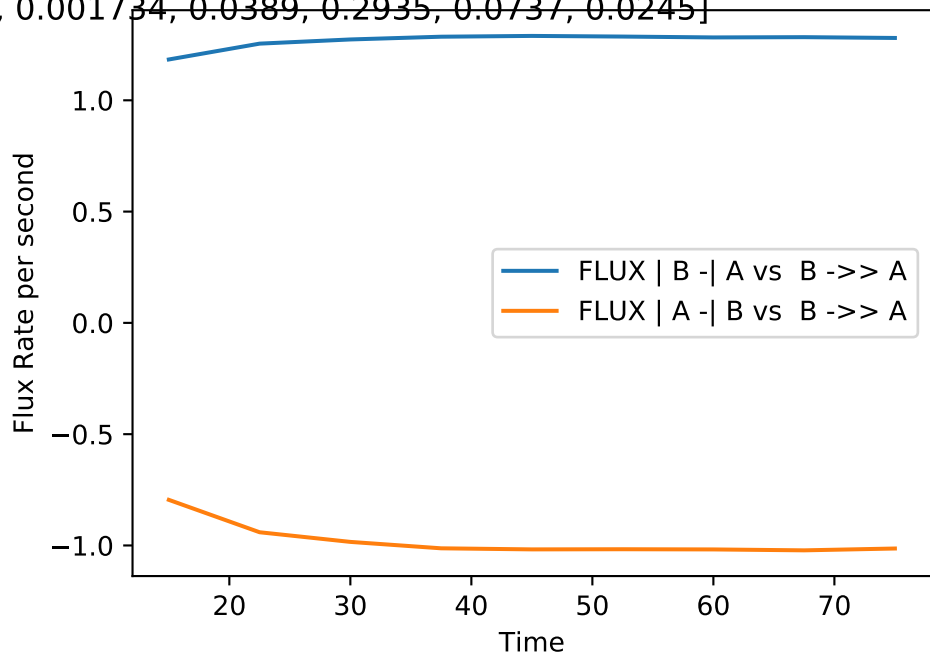
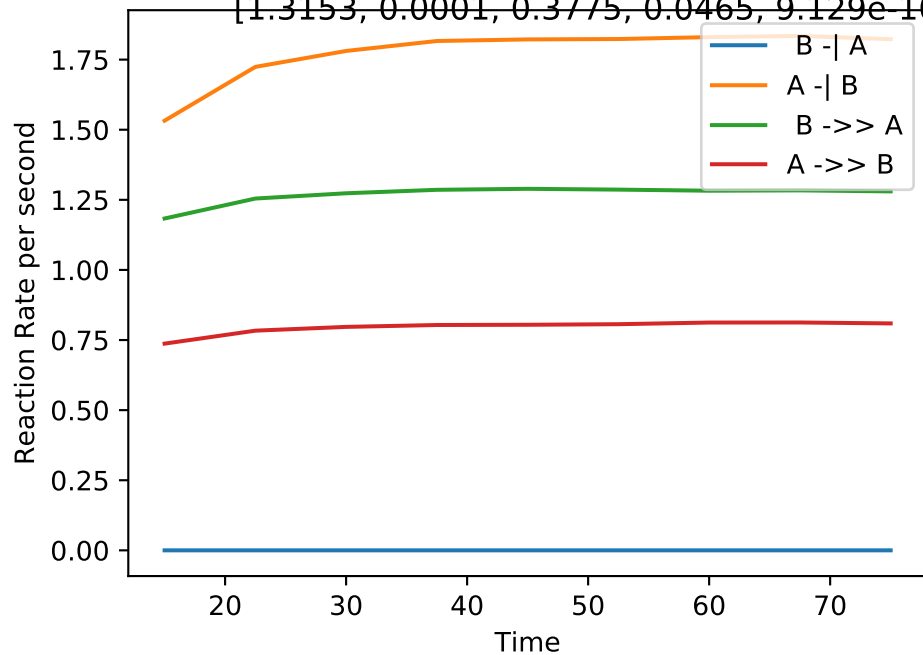
Double_up | MB-LLS Double_up(#294):

[1.5448, 0.6150, 0.4658, 0.2919, 2.554e-07, 0.0007936, 0.0385, 0.3716, 0.2599, 0.0303]



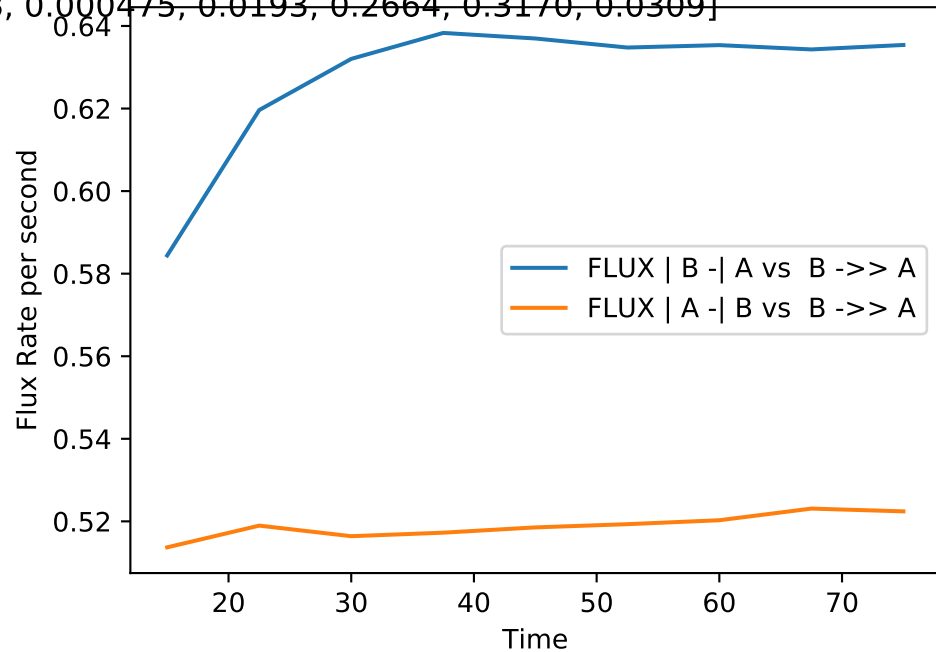
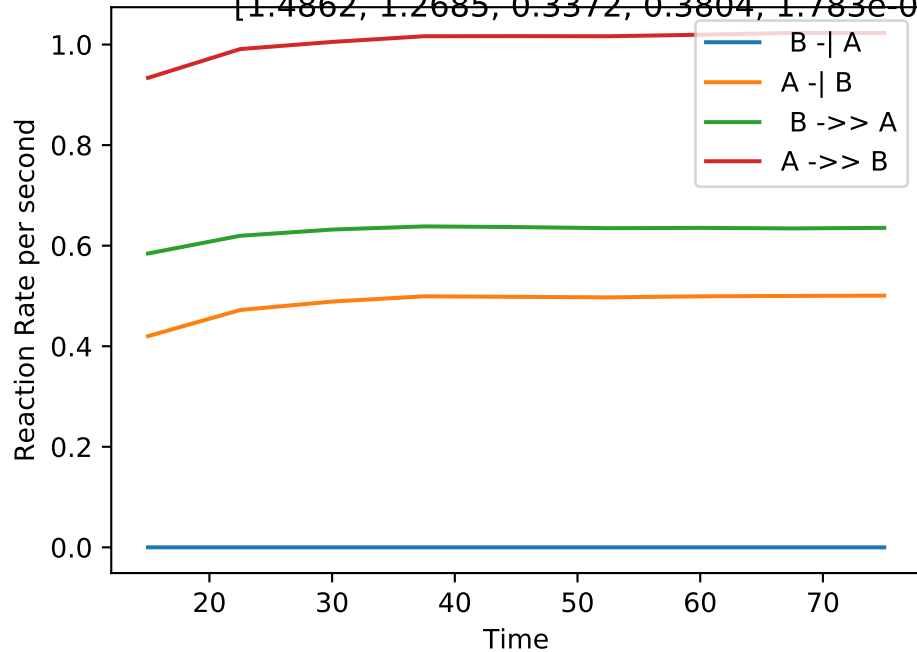
Double_up | MB-LLS Double_up(#295):

[1.3153, 0.0001, 0.3775, 0.0465, 9.129e-10, 0.001734, 0.0389, 0.2935, 0.0737, 0.0245]



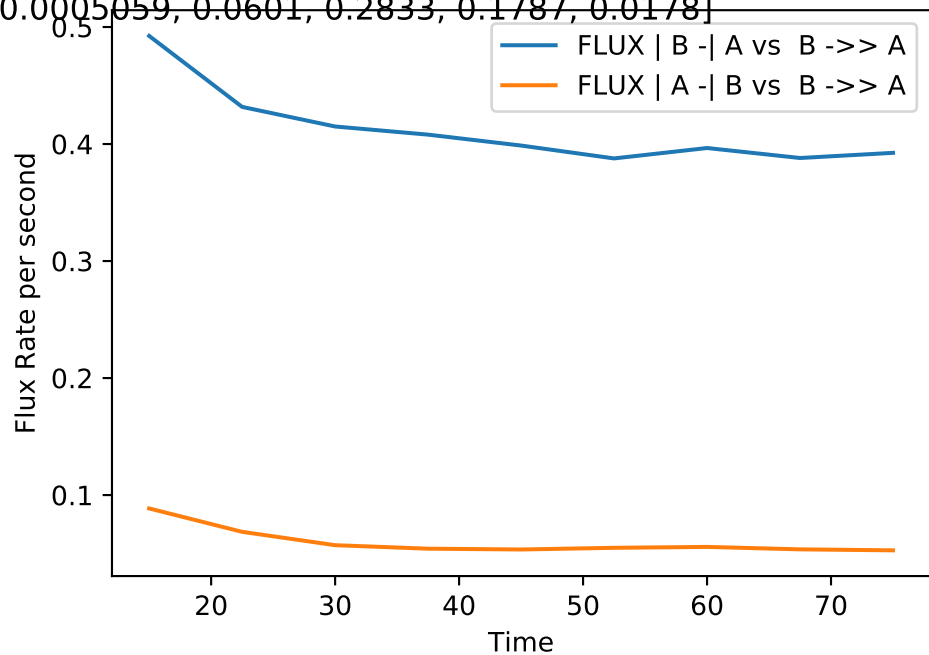
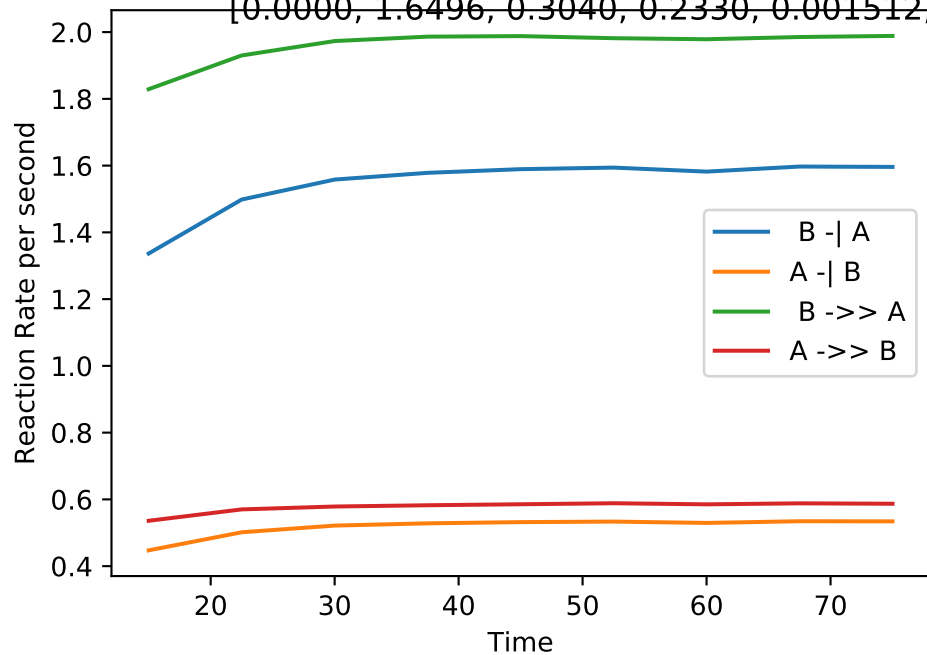
Double_up | MB-LLS Double_up(#296):

[1.4862, 1.2685, 0.3372, 0.3804, 1.783e-08, 0.000475, 0.0193, 0.2664, 0.3170, 0.0309]



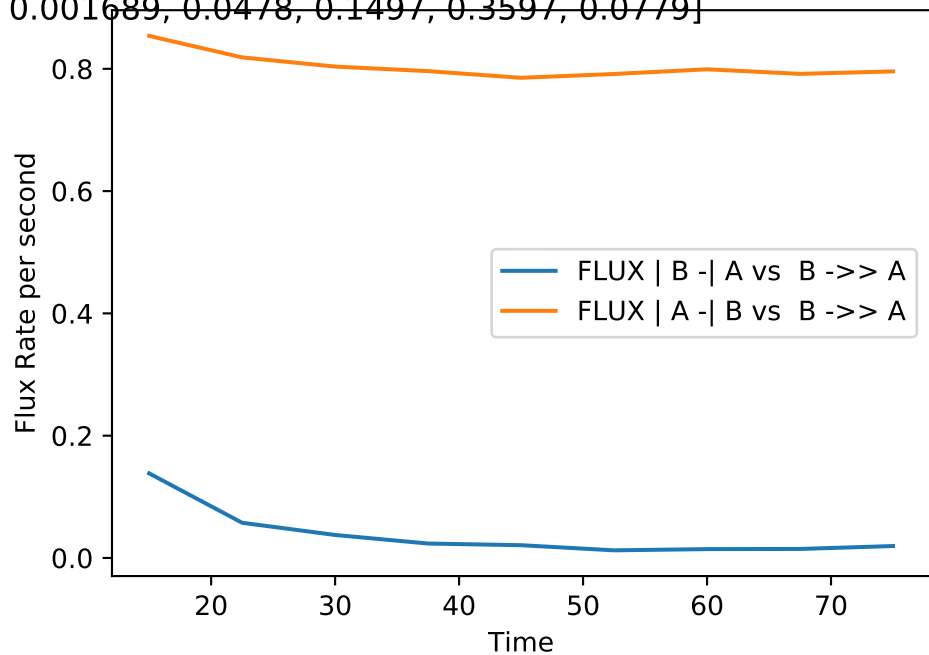
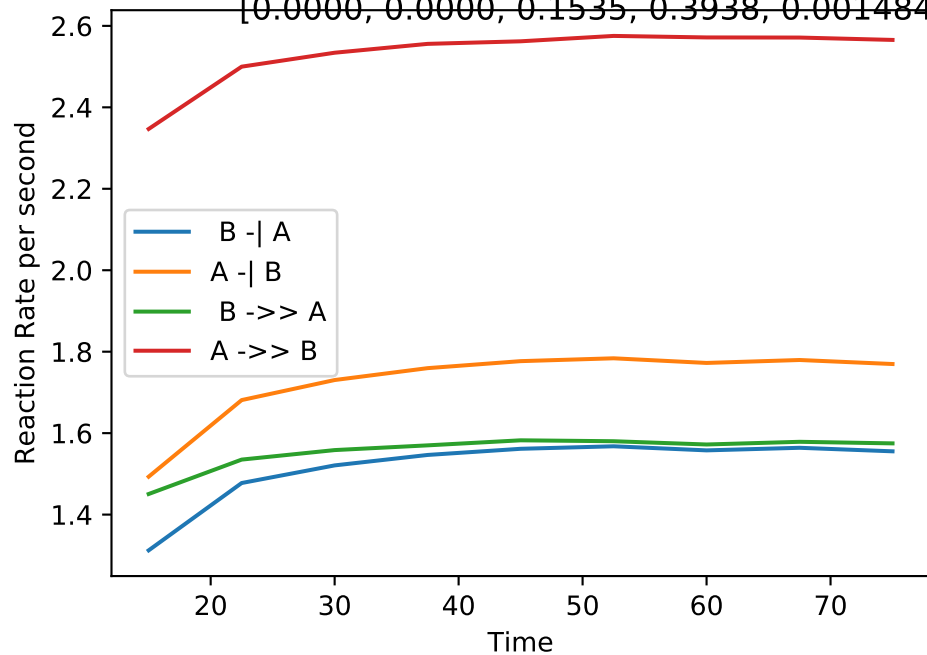
Double_up | MB-LLS Double_up(#297):

[0.0000, 1.6496, 0.3040, 0.2330, 0.001512, 0.0005059, 0.0601, 0.2833, 0.1787, 0.0178]



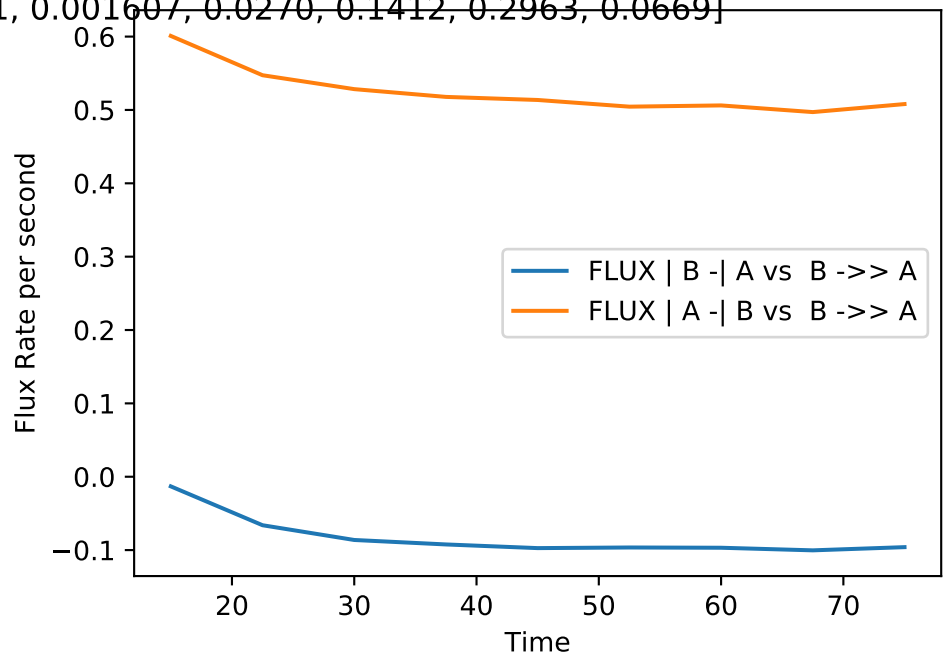
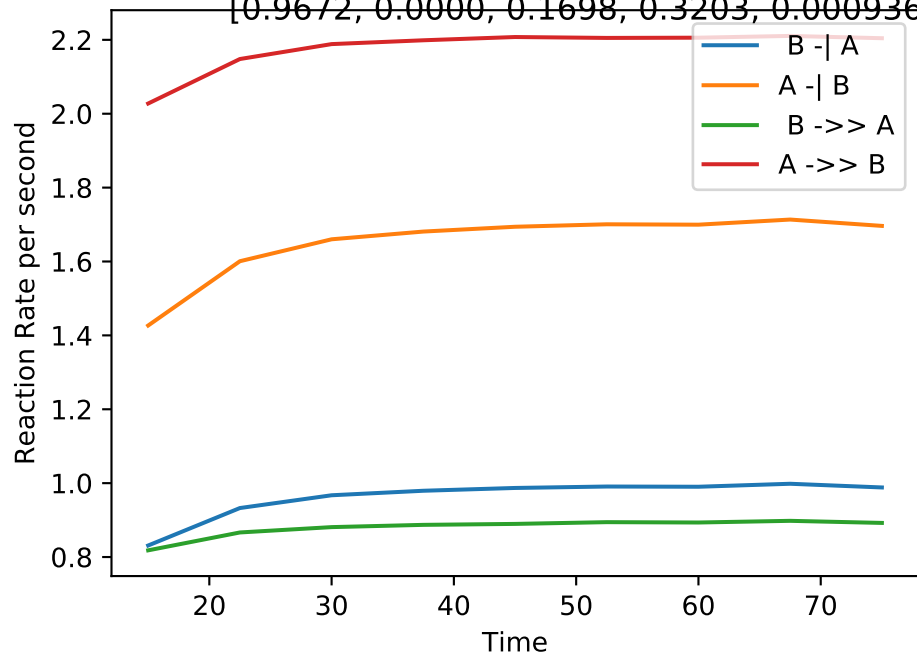
Double_up | MB-LLS Double_up(#298):

[0.0000, 0.0000, 0.1535, 0.3938, 0.001484, 0.001689, 0.0478, 0.1497, 0.3597, 0.0779]



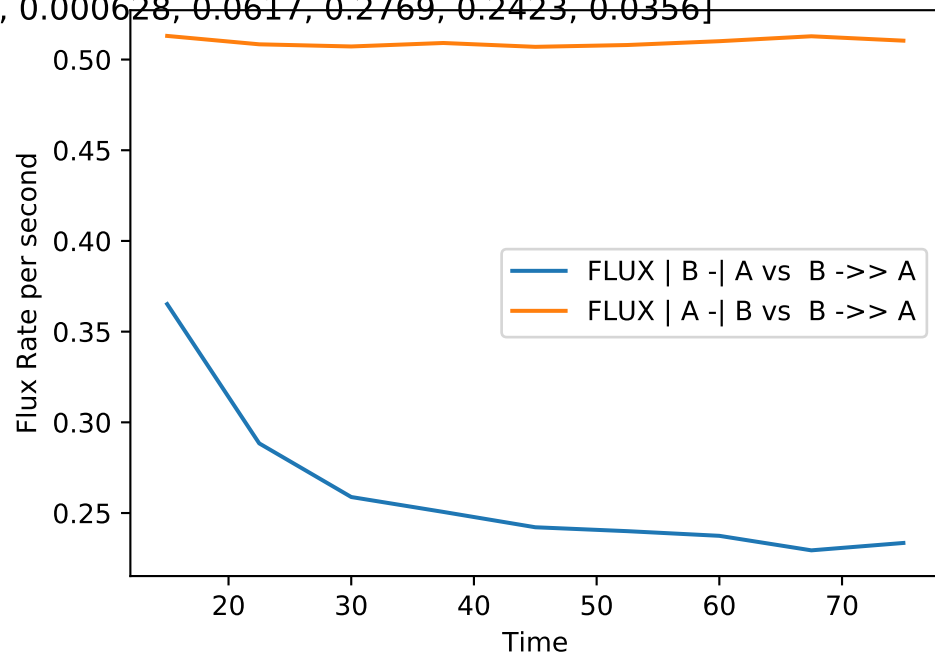
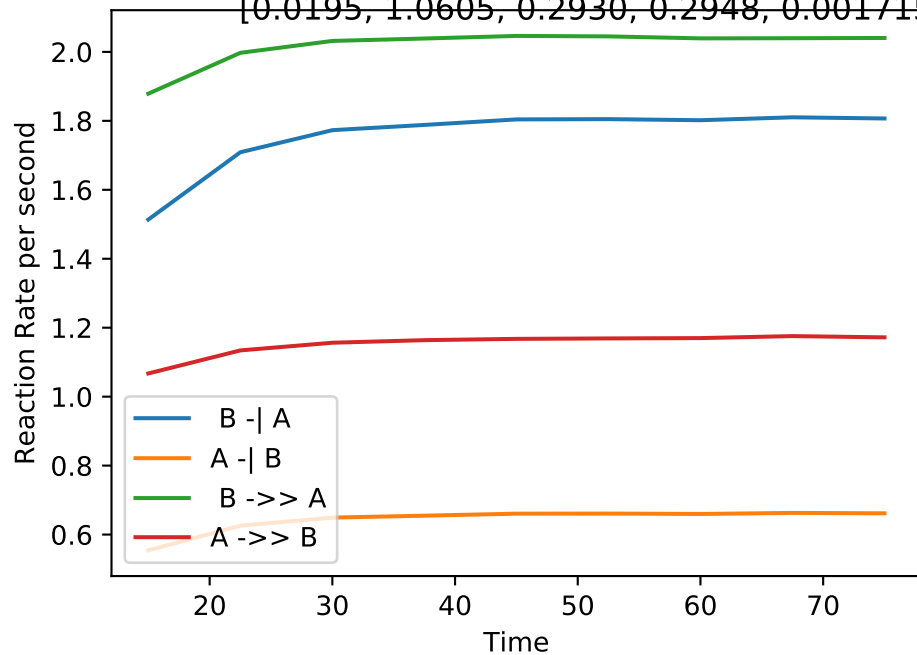
Double_up | MB-LLS Double_up(#299):

[0.9672, 0.0000, 0.1698, 0.3203, 0.0009361, 0.001607, 0.0270, 0.1412, 0.2963, 0.0669]



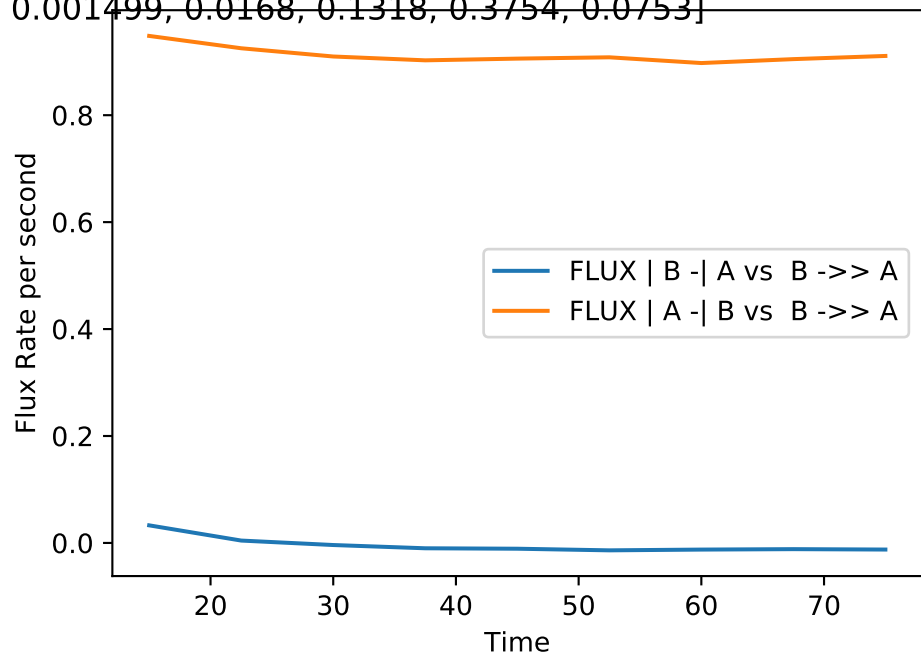
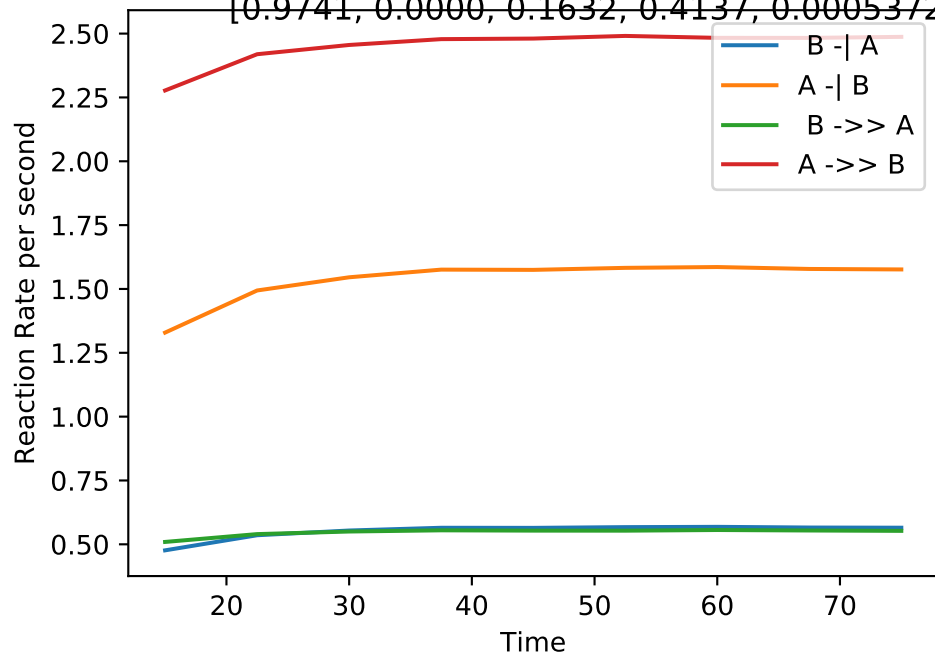
Double_up | MB-LLS Double_up(#300):

[0.0195, 1.0605, 0.2930, 0.2948, 0.001715, 0.000628, 0.0617, 0.2769, 0.2423, 0.0356]



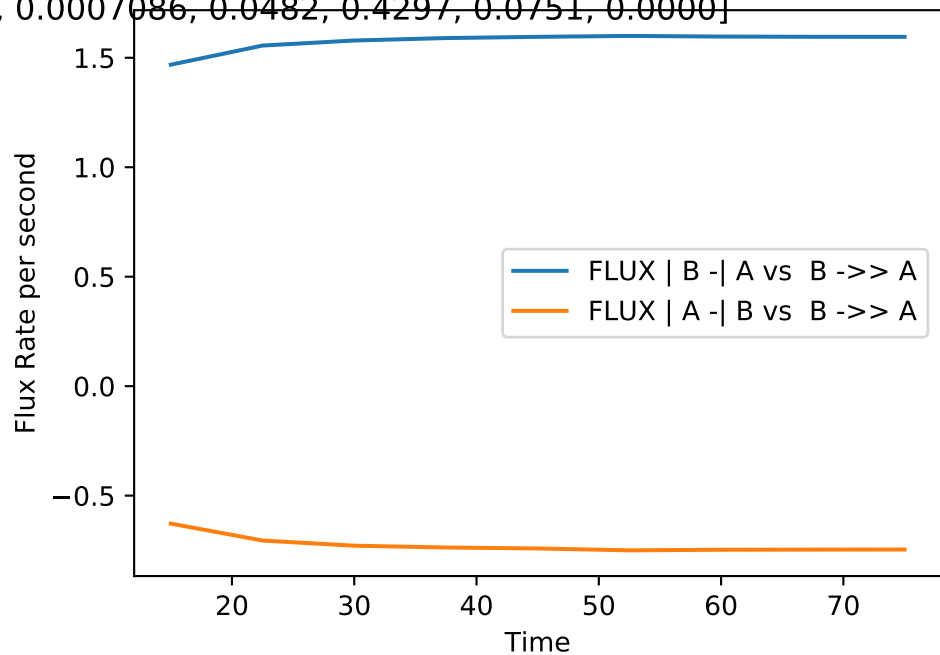
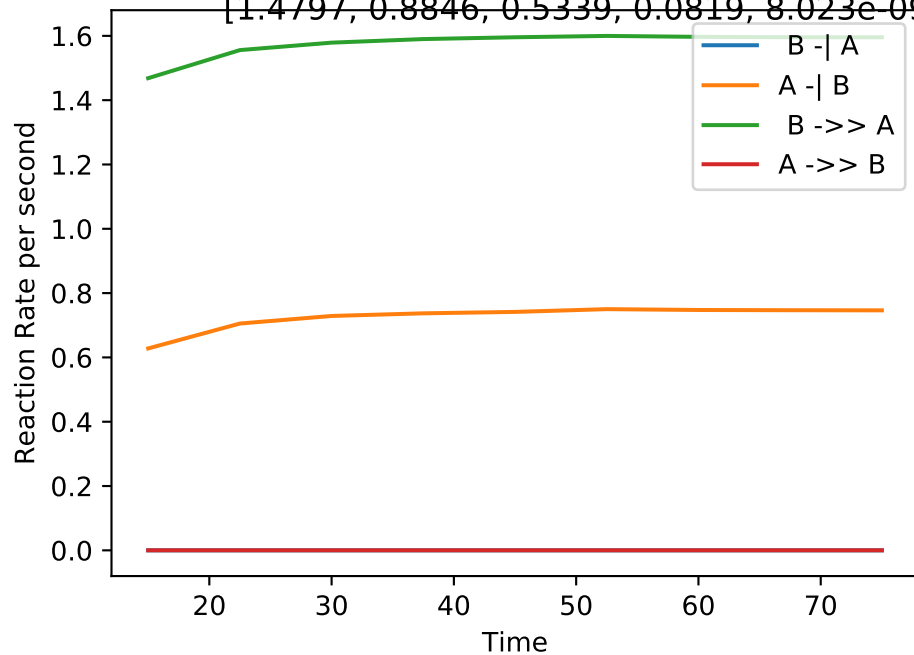
Double_up | MB-LLS Double_up(#301):

[0.9741, 0.0000, 0.1632, 0.4137, 0.0005372, 0.001499, 0.0168, 0.1318, 0.3754, 0.0753]



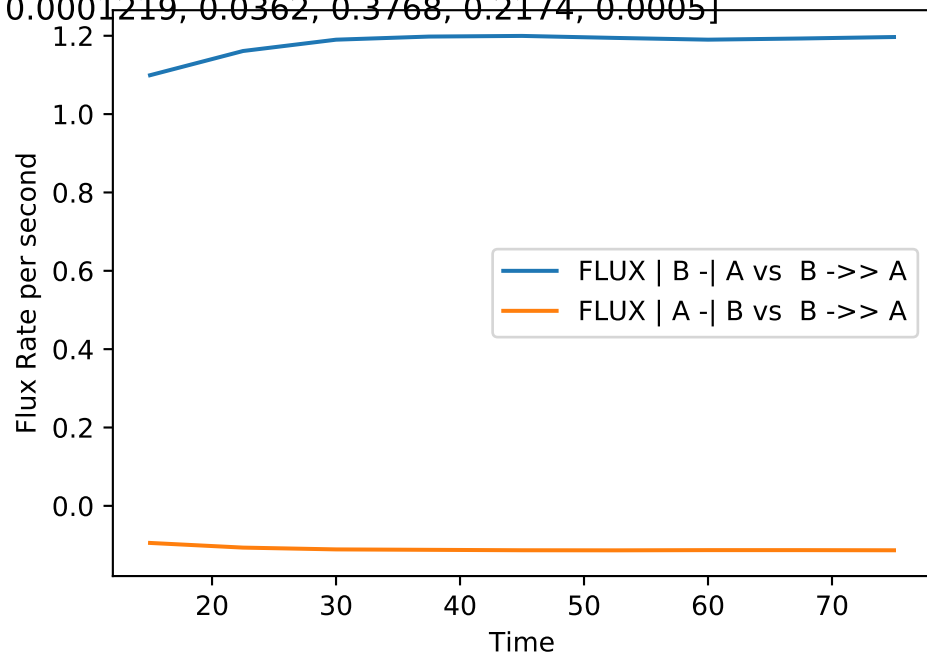
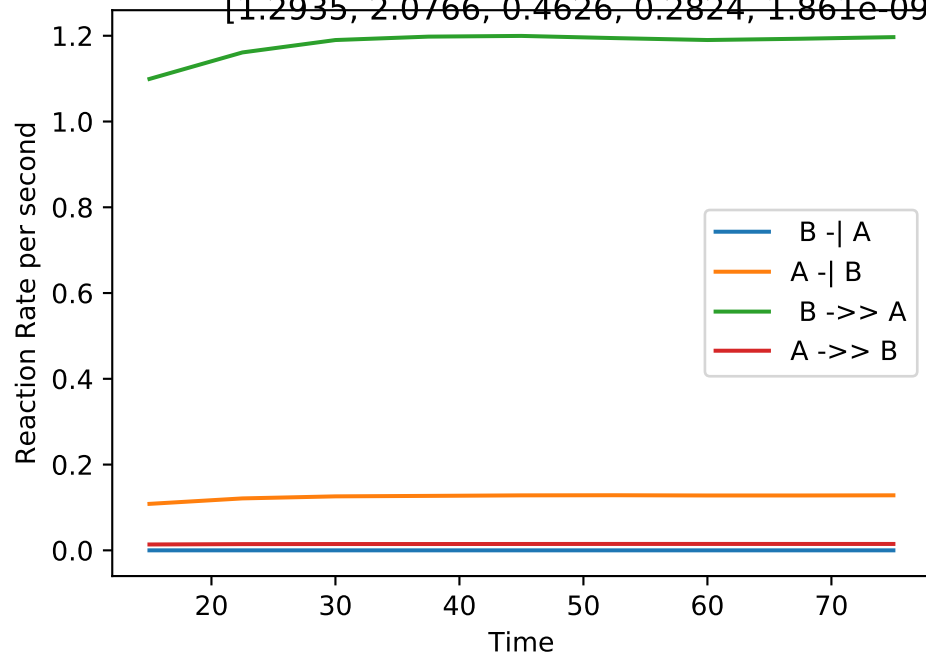
Double_up | MB-LLS Double_up(#302):

[1.4797, 0.8846, 0.5339, 0.0819, 8.023e-09, 0.0007086, 0.0482, 0.4297, 0.0751, 0.0000]



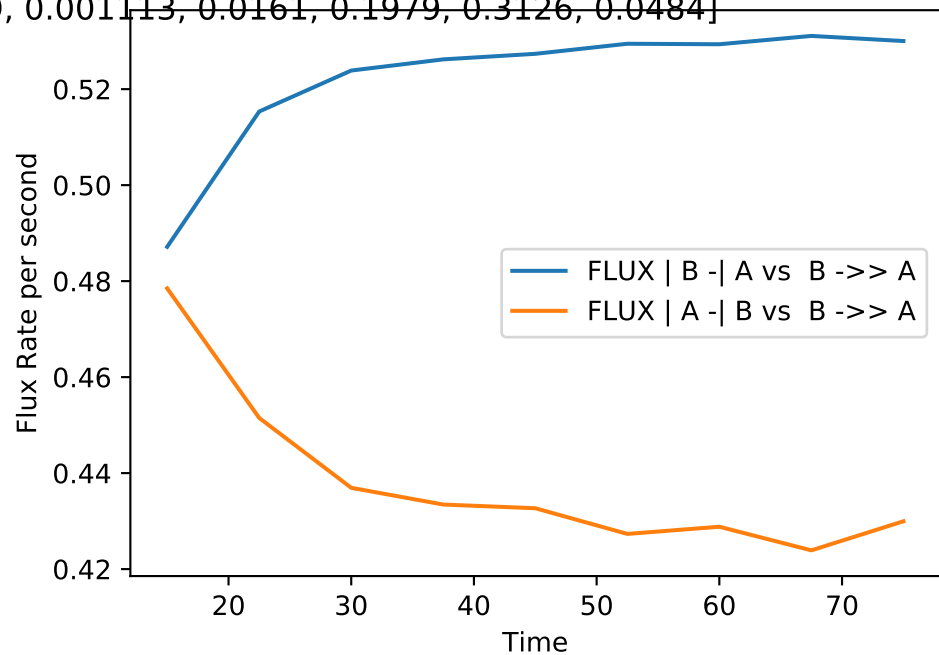
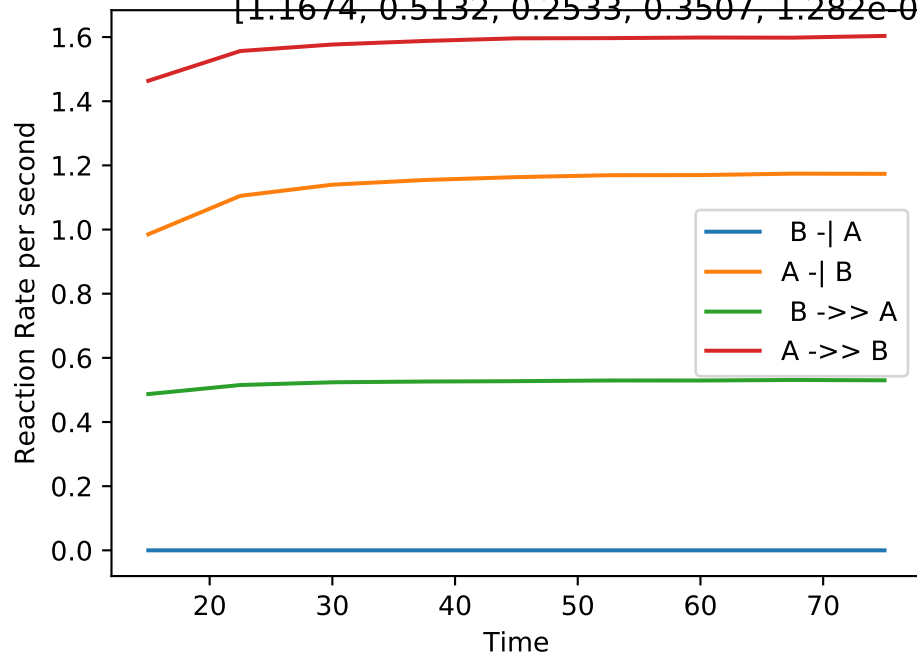
Double_up | MB-LLS Double_up(#303):

[1.2935, 2.0766, 0.4626, 0.2824, 1.861e-09, 0.0001219, 0.0362, 0.3768, 0.2174, 0.0005]



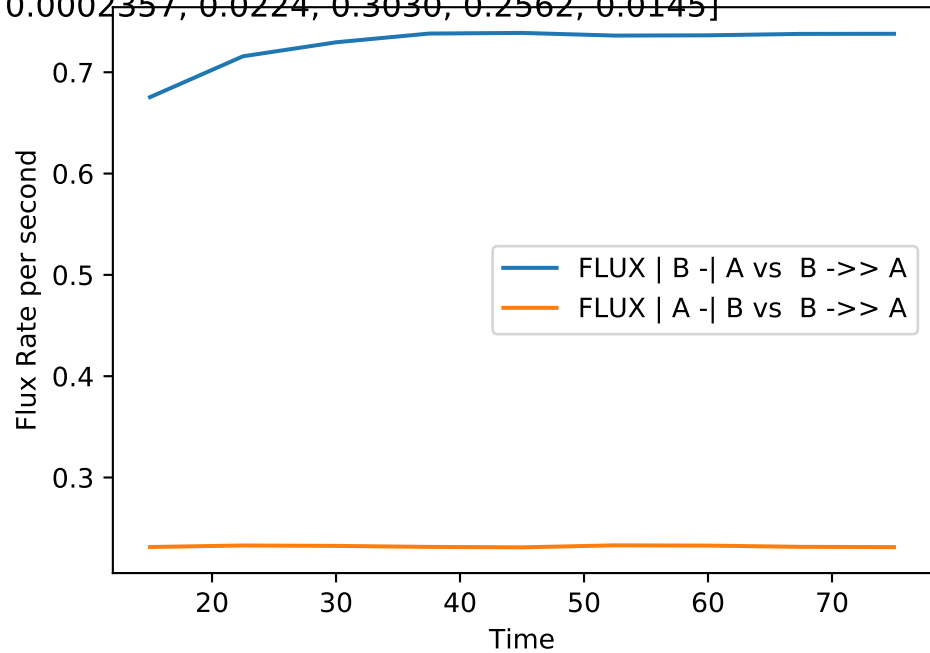
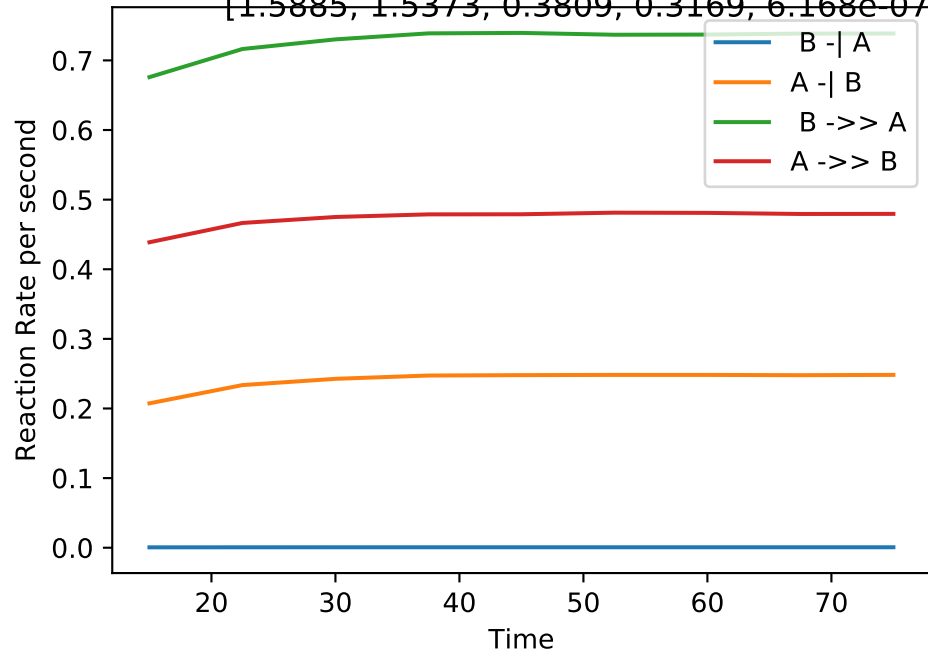
Double_up | MB-LLS Double_up(#304):

[1.1674, 0.5132, 0.2533, 0.3507, 1.282e-09, 0.001113, 0.0161, 0.1979, 0.3126, 0.0484]



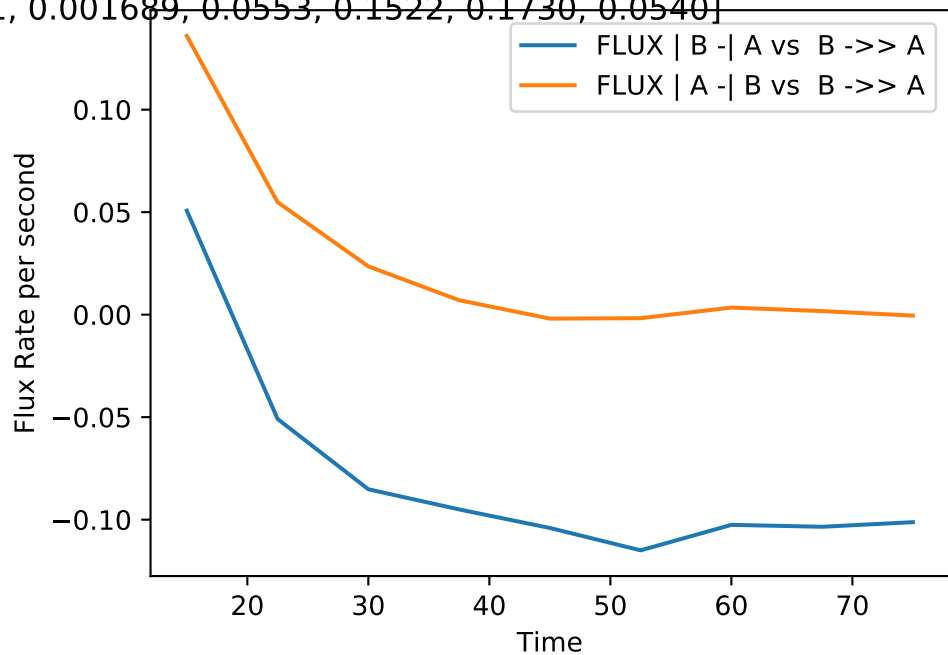
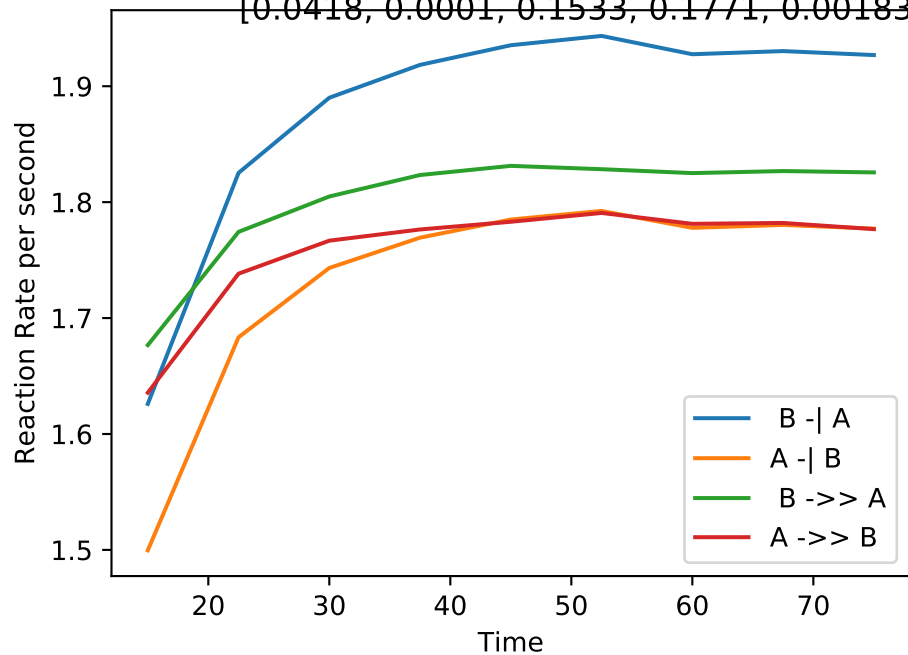
Double_up | MB-LLS Double_up(#305):

[1.5885, 1.5373, 0.3809, 0.3169, 6.168e-07, 0.0002357, 0.0224, 0.3030, 0.2562, 0.0145]



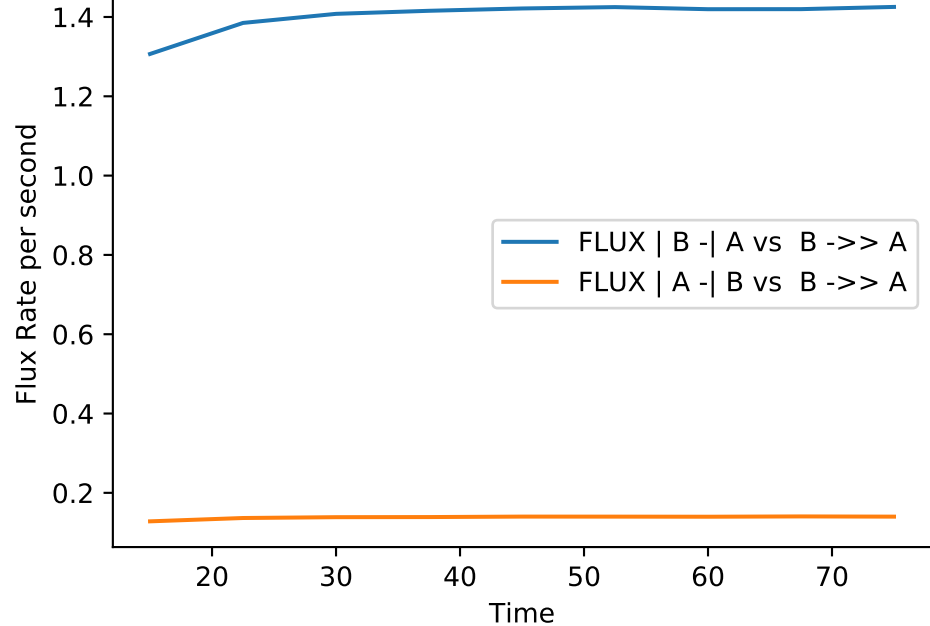
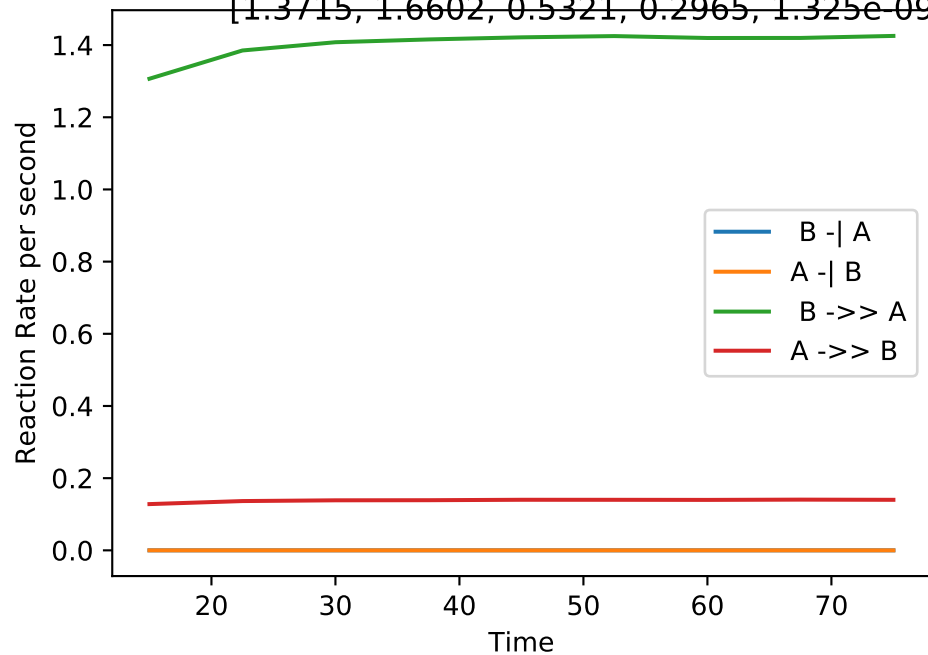
Double_up | MB-LLS Double_up(#306):

[0.0418, 0.0001, 0.1533, 0.1771, 0.001831, 0.001689, 0.0553, 0.1522, 0.1730, 0.0540]



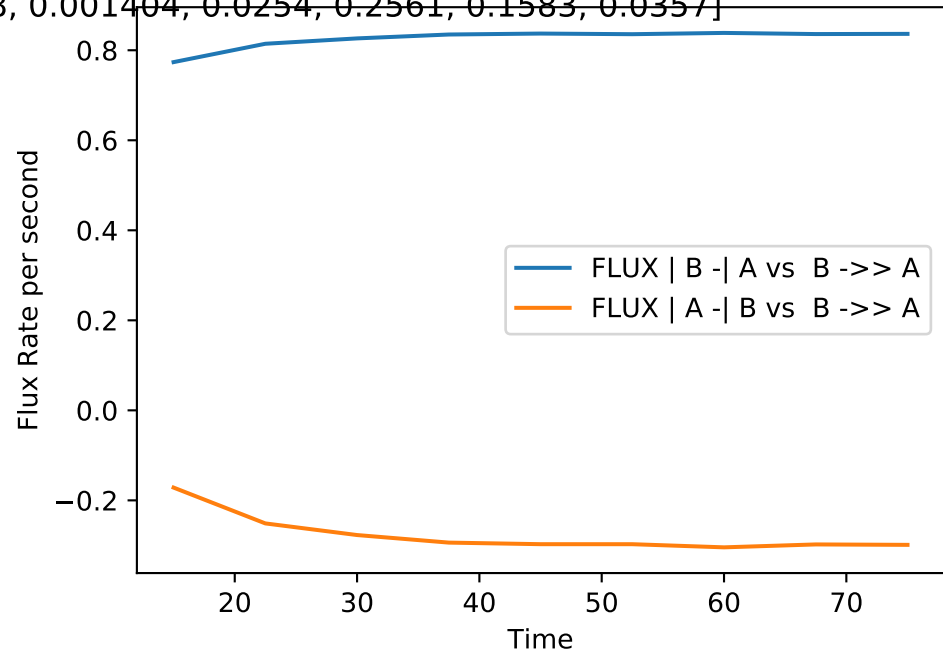
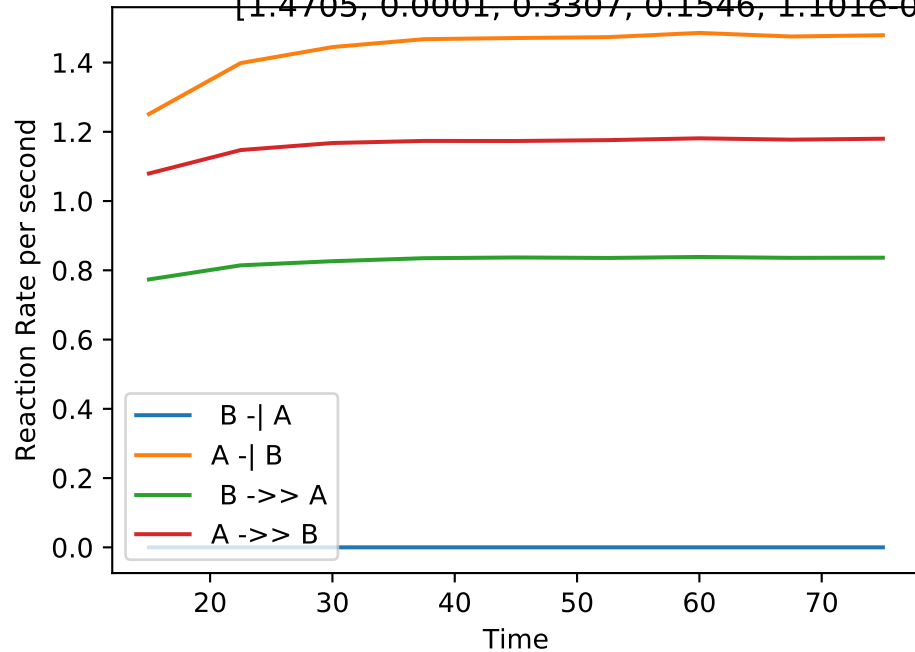
Double_up | MB-LLS Double_up(#307):

[1.3715, 1.6602, 0.5321, 0.2965, 1.325e-09, 9.648e-09, 0.0431, 0.4354, 0.2354, 0.0042]



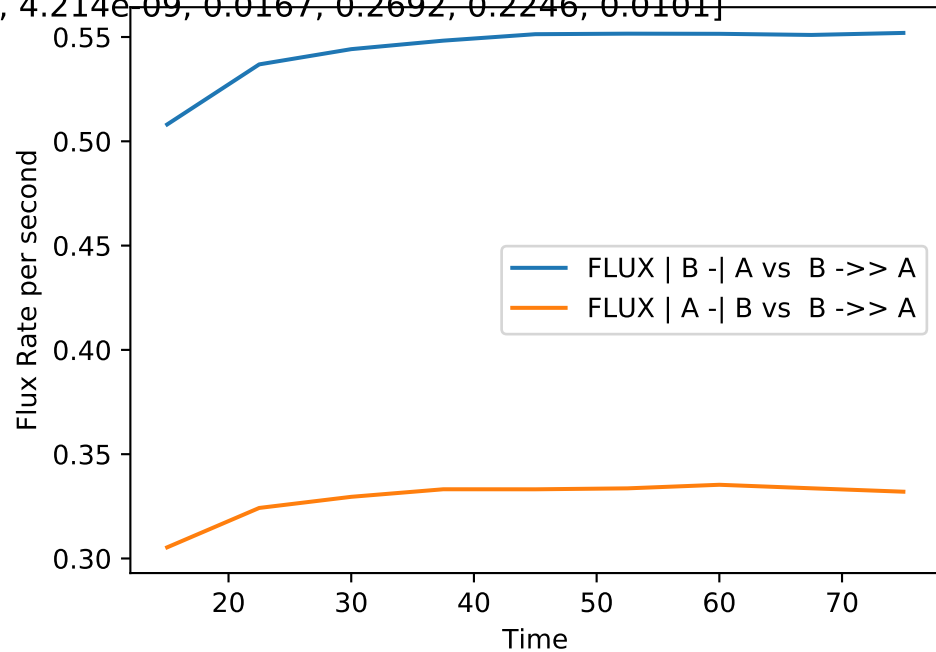
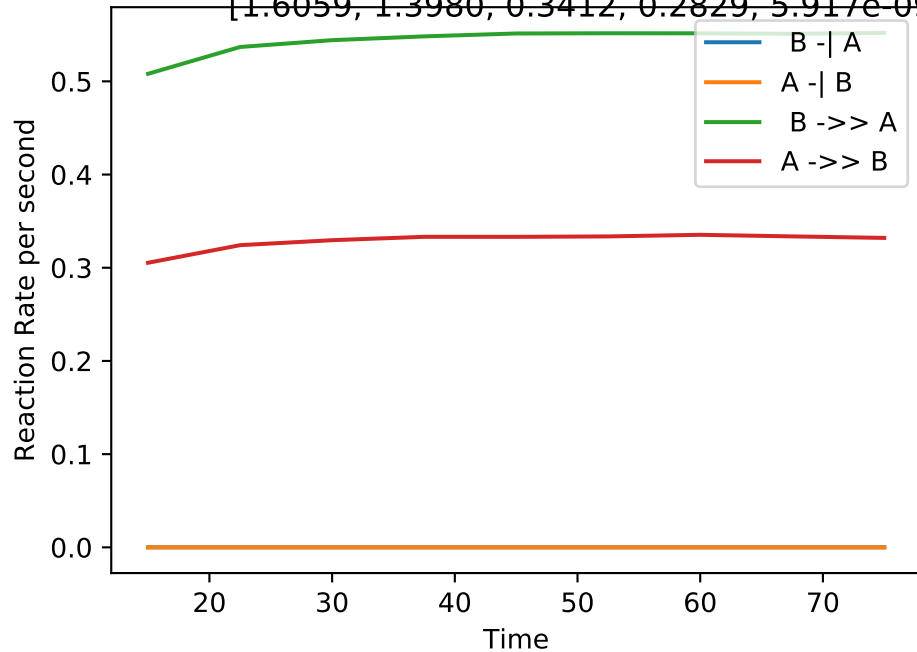
Double_up | MB-LLS Double_up(#308):

[1.4705, 0.0001, 0.3307, 0.1546, 1.101e-08, 0.001404, 0.0254, 0.2561, 0.1583, 0.0357]



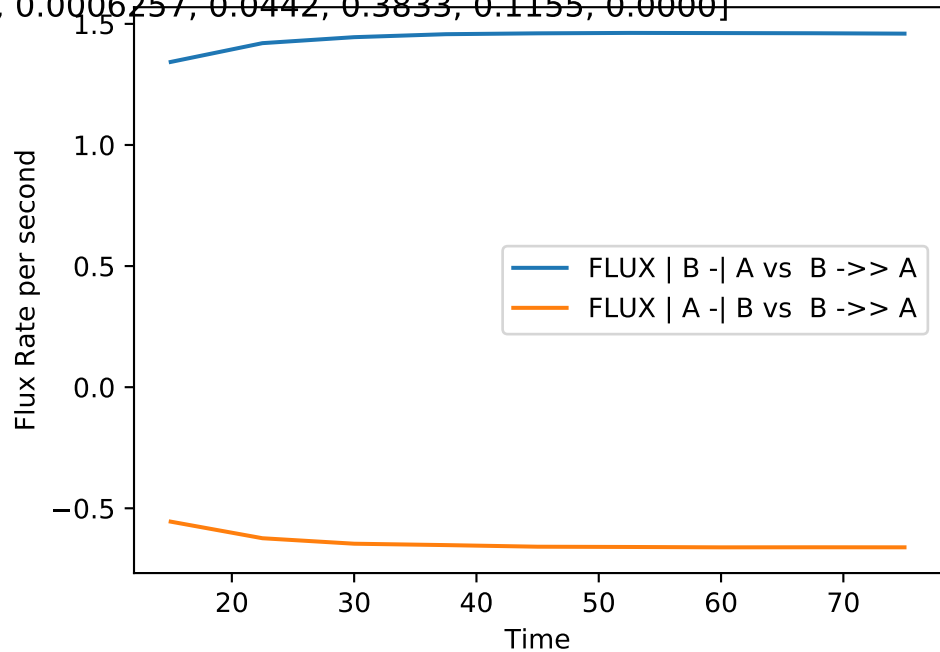
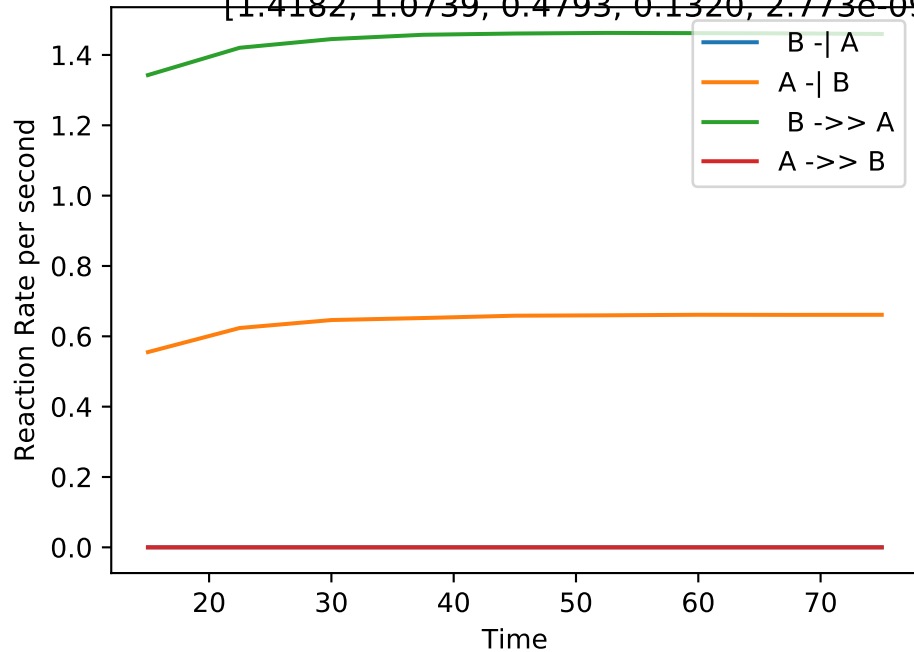
Double_up | MB-LLS Double_up(#309):

[1.6059, 1.3980, 0.3412, 0.2829, 5.917e-09, 4.214e-09, 0.0167, 0.2692, 0.2246, 0.0101]



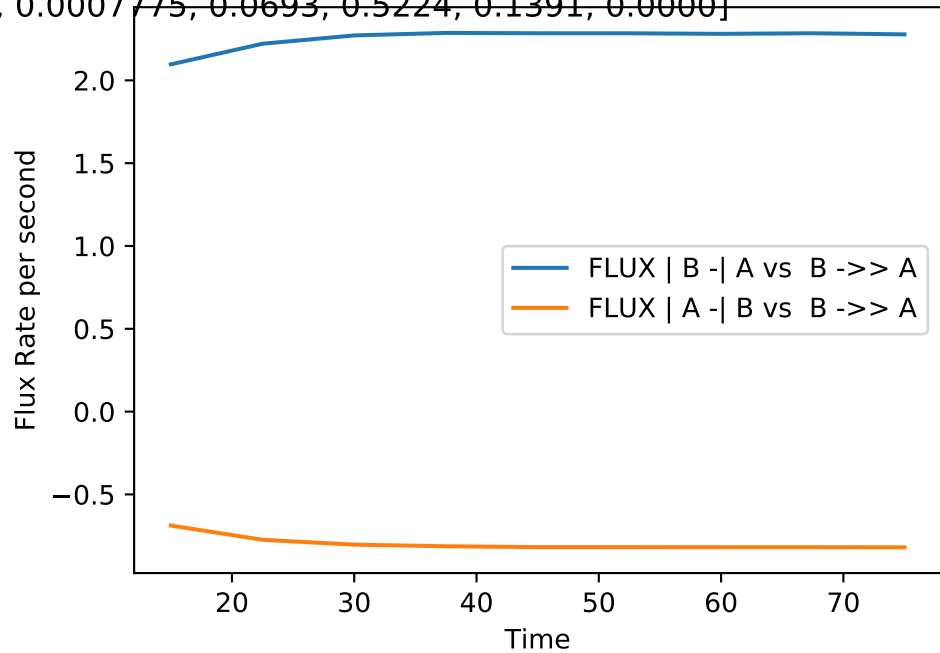
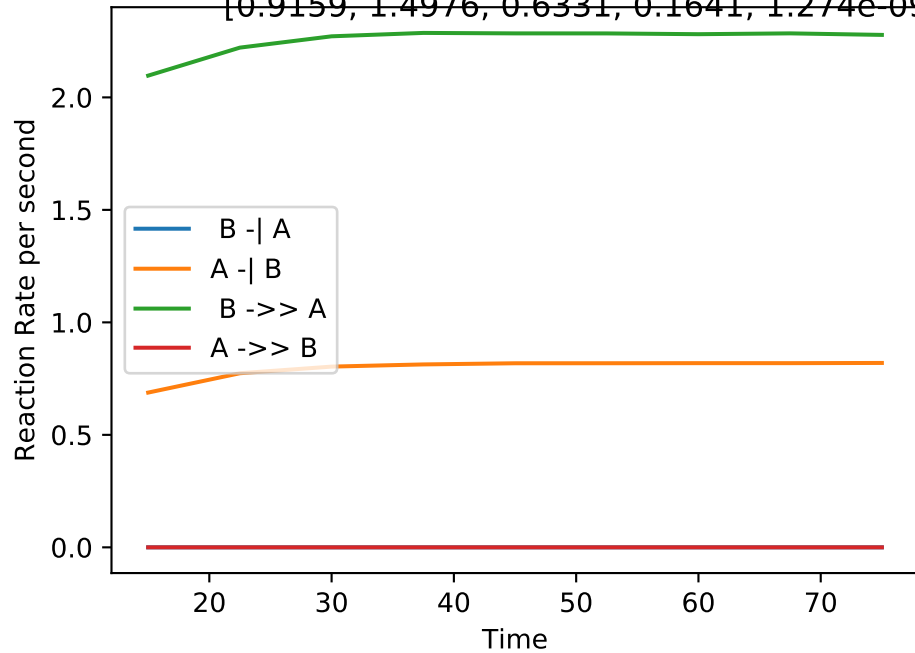
Double_up | MB-LLS Double_up(#310):

[1.4182, 1.0739, 0.4793, 0.1320, 2.773e-09, 0.0006257, 0.0442, 0.3833, 0.1155, 0.0000]



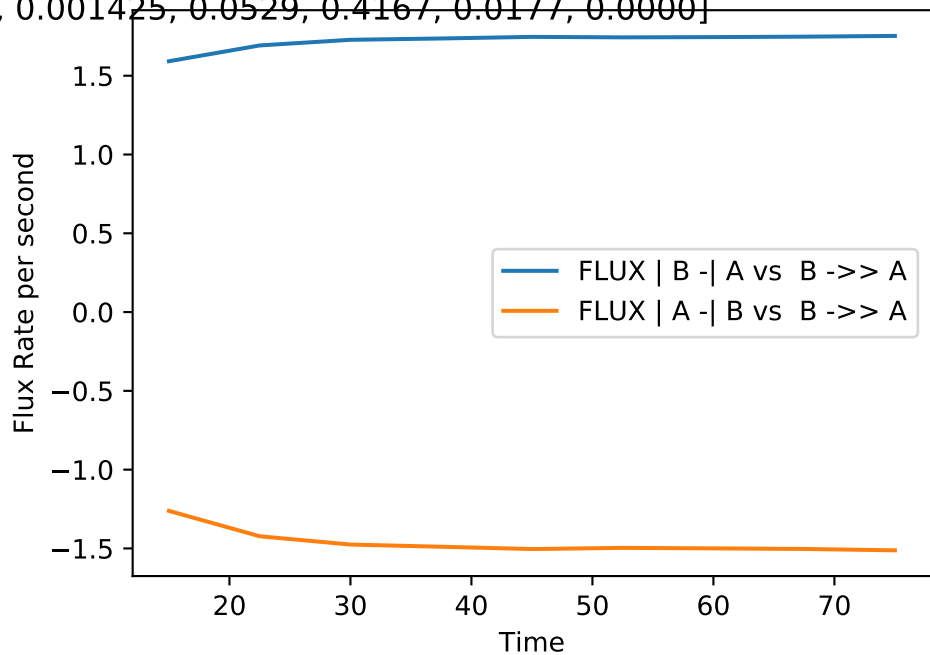
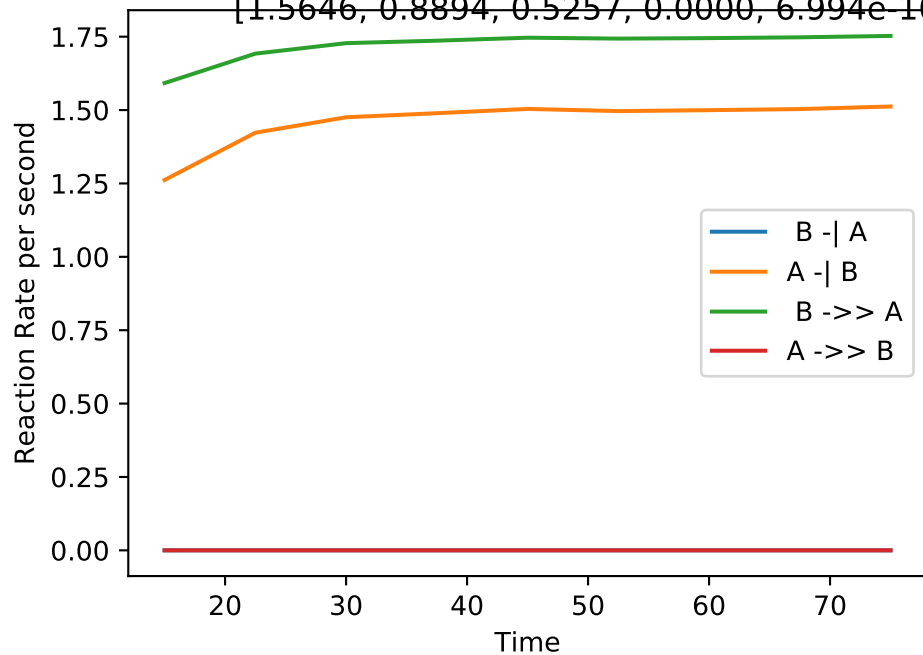
Double_up | MB-LLS Double_up(#311):

[0.9159, 1.4976, 0.6331, 0.1641, 1.274e-09, 0.0007775, 0.0693, 0.5224, 0.1391, 0.0000]



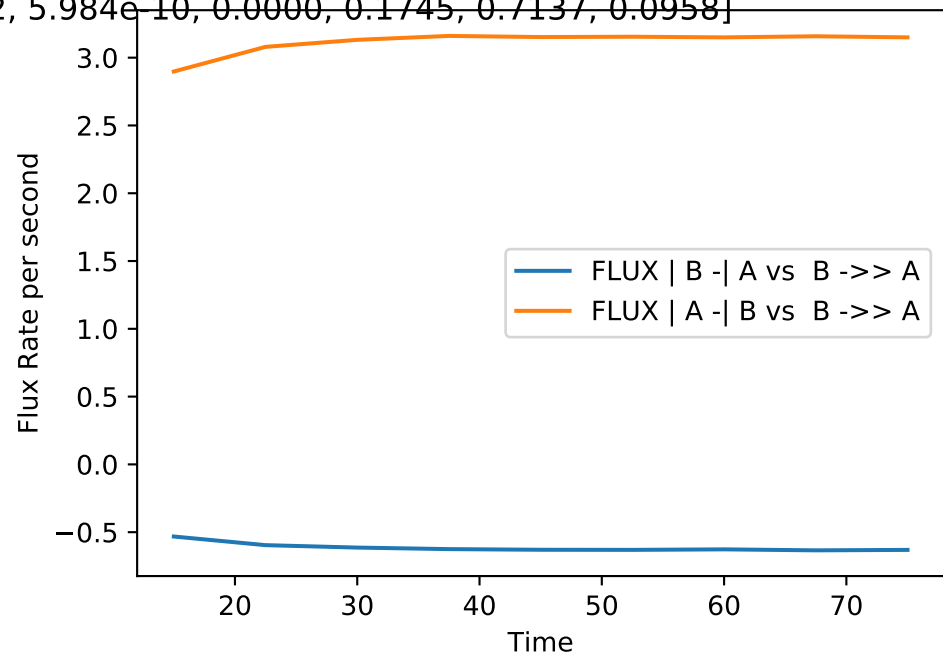
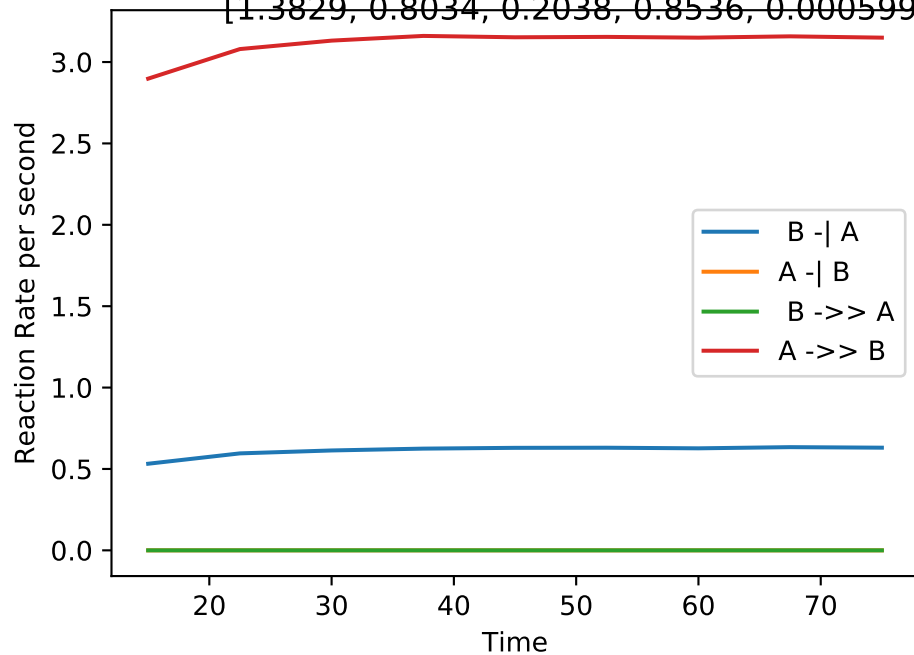
Double_up | MB-LLS Double_up(#312):

[1.5646, 0.8894, 0.5257, 0.0000, 6.994e-10, 0.001425, 0.0529, 0.4167, 0.0177, 0.0000]



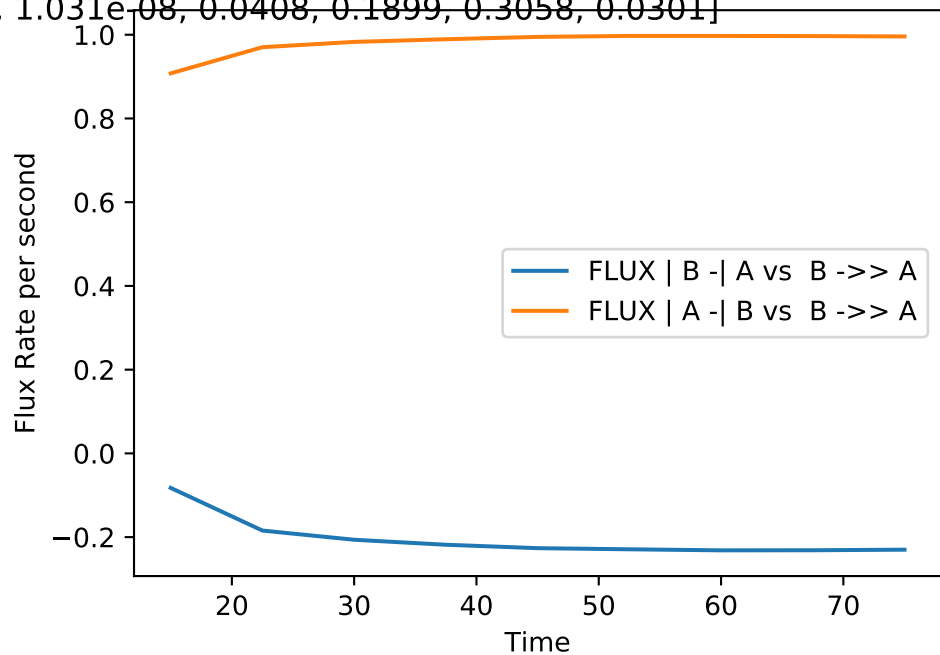
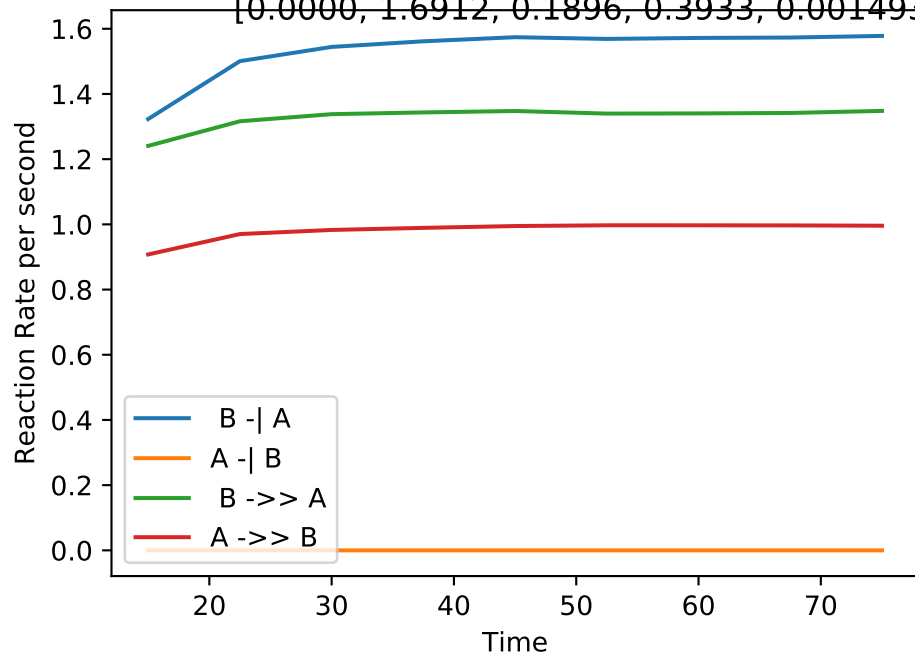
Double_up | MB-LLS Double_up(#313):

[1.3829, 0.8034, 0.2038, 0.8536, 0.0005992, 5.984e-10, 0.0000, 0.1745, 0.7137, 0.0958]



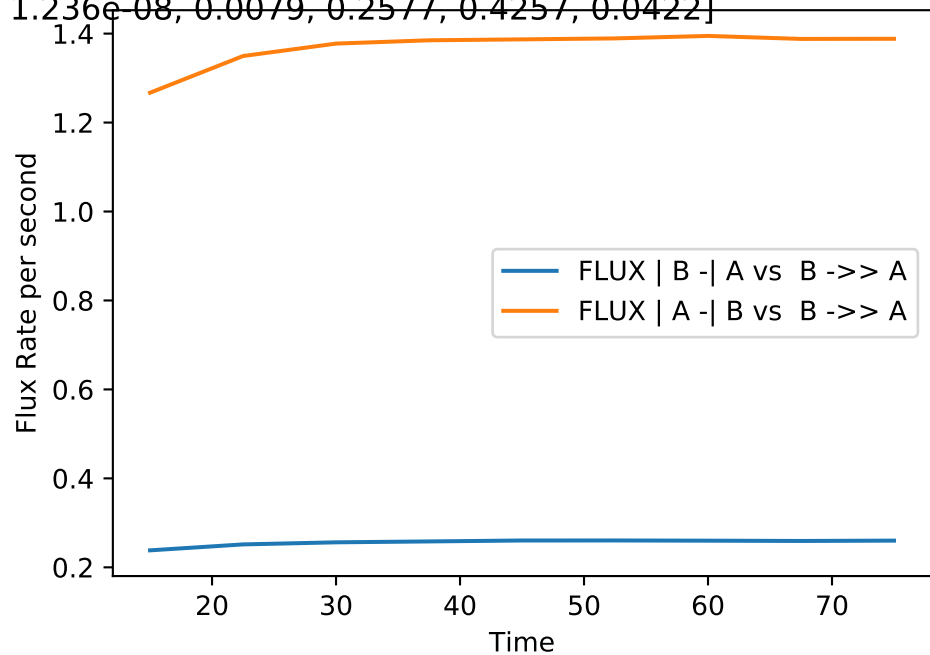
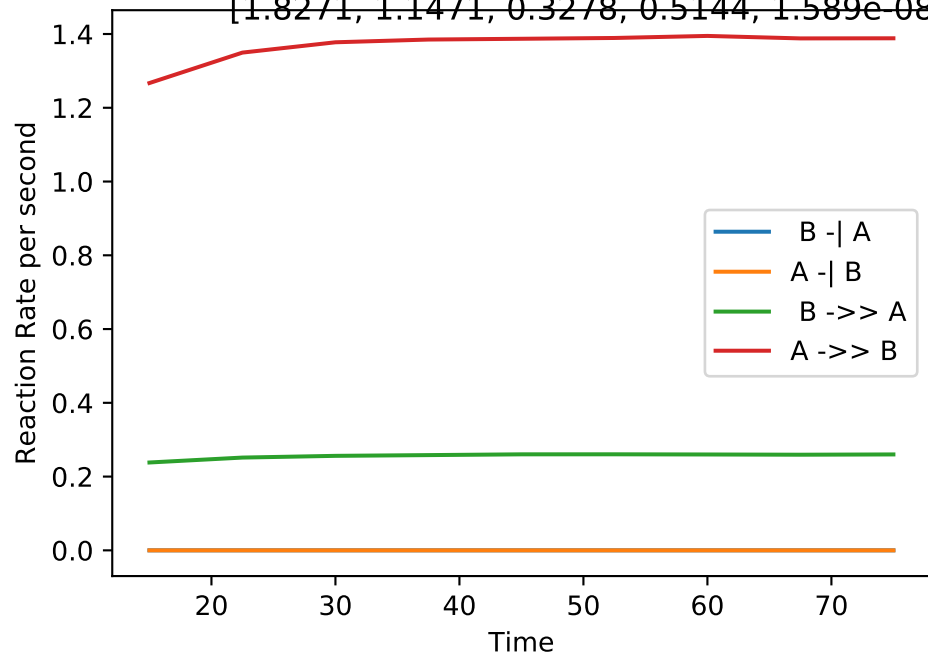
Double_up | MB-LLS Double_up(#314):

[0.0000, 1.6912, 0.1896, 0.3933, 0.001493, 1.031e-08, 0.0408, 0.1899, 0.3058, 0.0301]



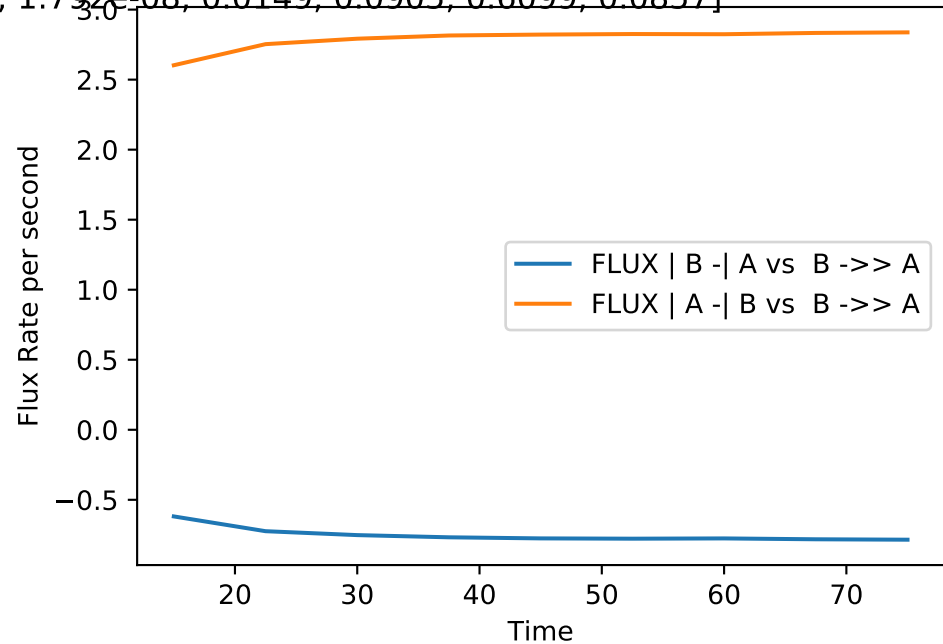
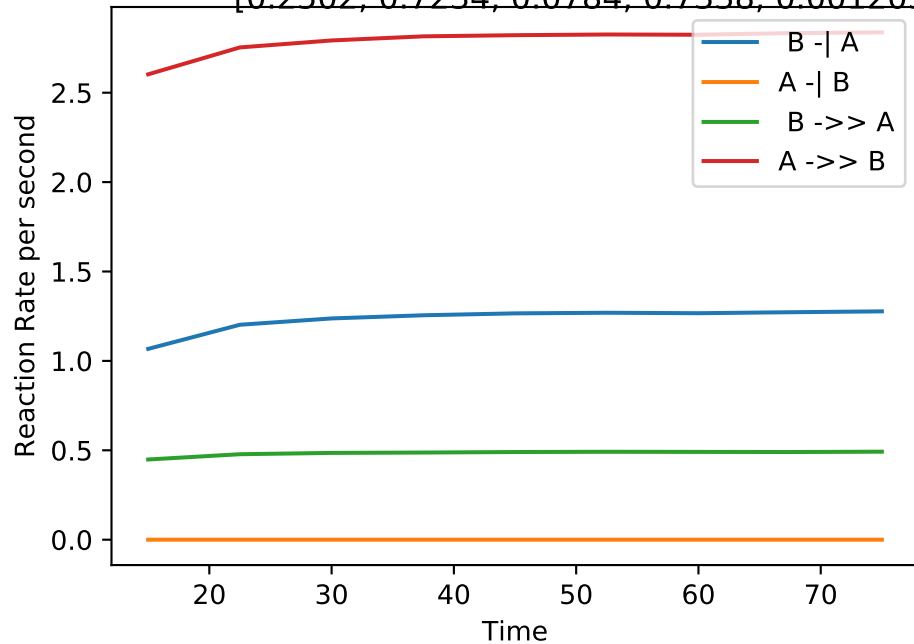
Double_up | MB-LLS Double_up(#315):

[1.8271, 1.1471, 0.3278, 0.5144, 1.589e-08, 1.236e-08, 0.0079, 0.2577, 0.4257, 0.0422]



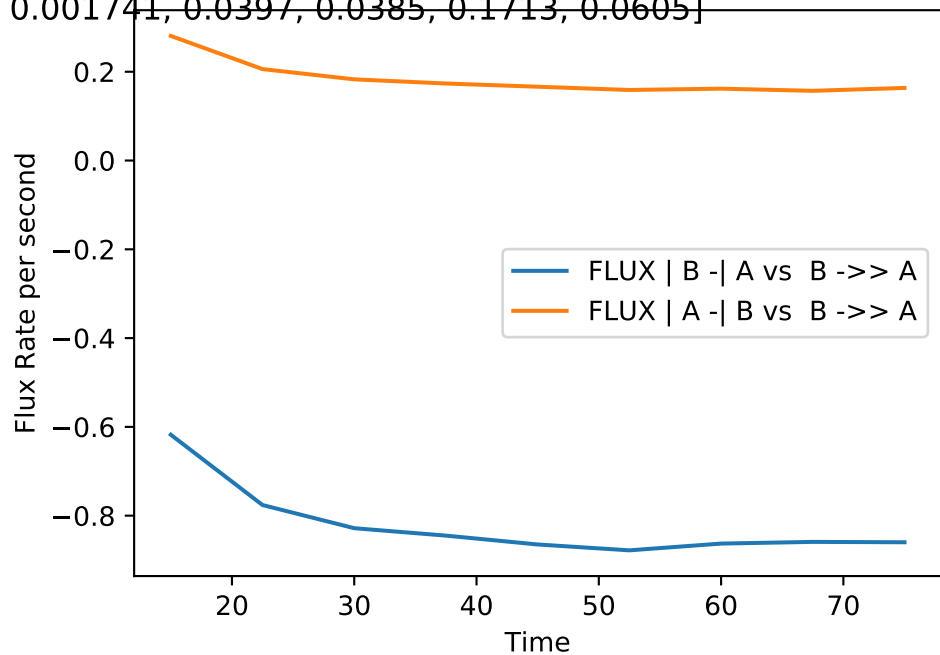
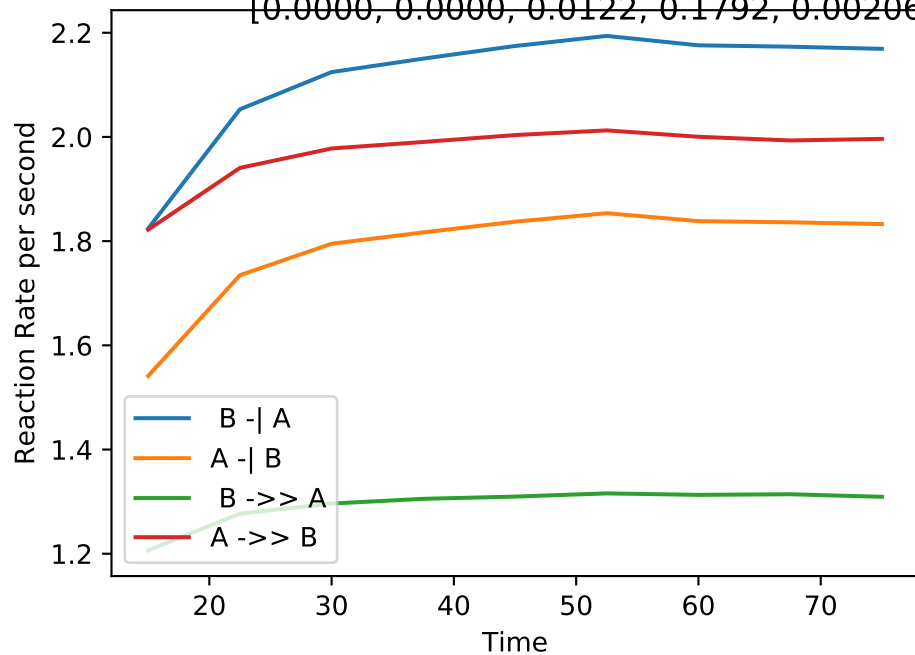
Double_up | MB-LLS Double_up(#316):

[0.2502, 0.7234, 0.0784, 0.7338, 0.001205, 1.792e-08, 0.0149, 0.0905, 0.6099, 0.0857]



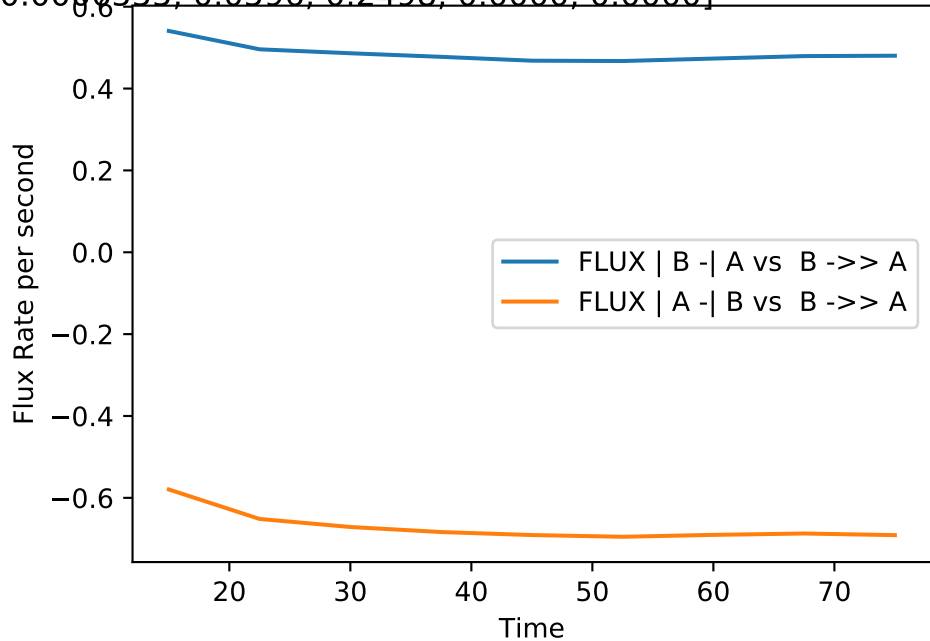
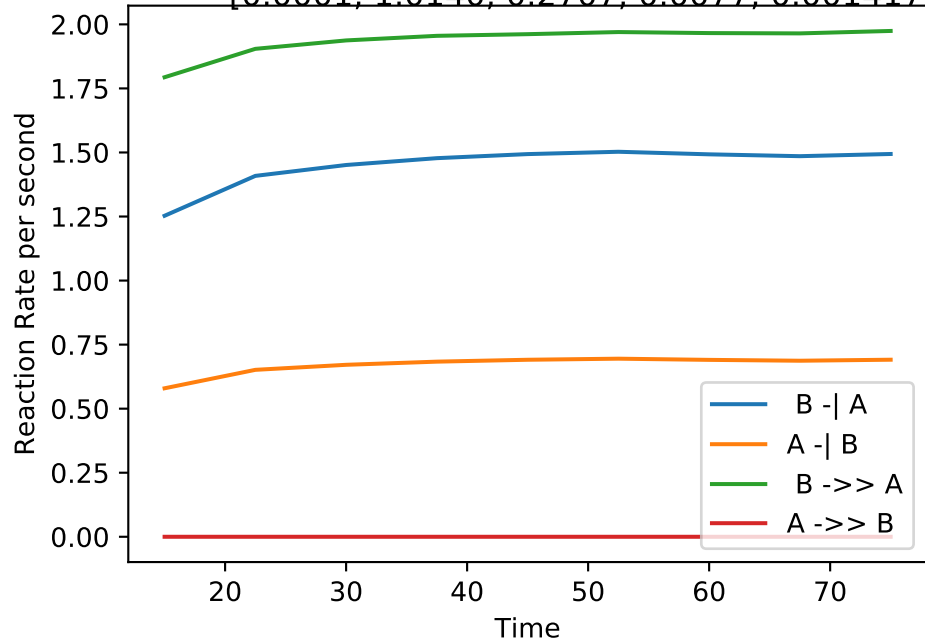
Double_up | MB-LLS Double_up(#317):

[0.0000, 0.0000, 0.0122, 0.1792, 0.00206, 0.001741, 0.0397, 0.0385, 0.1713, 0.0605]



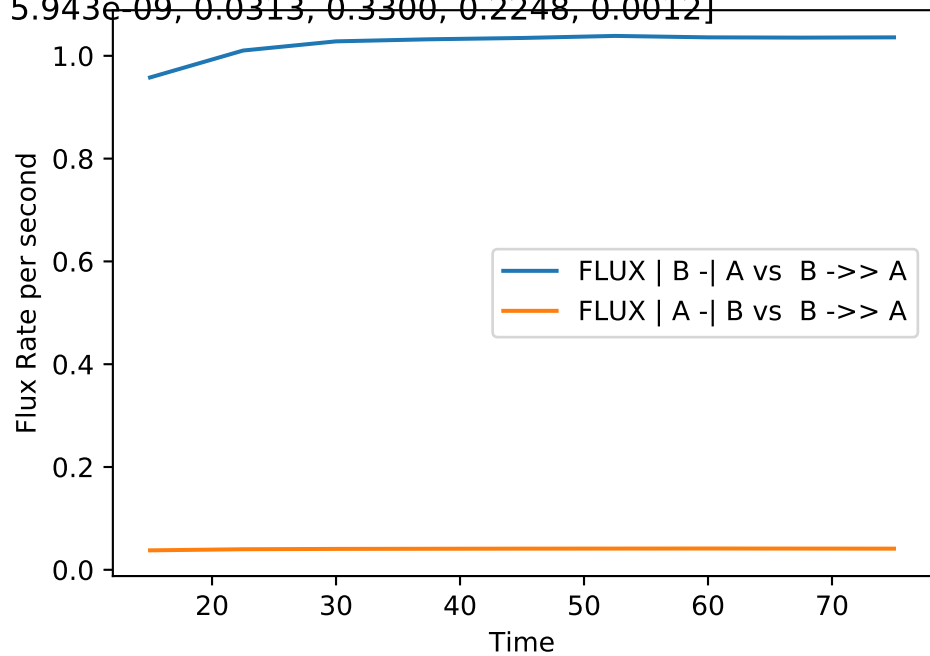
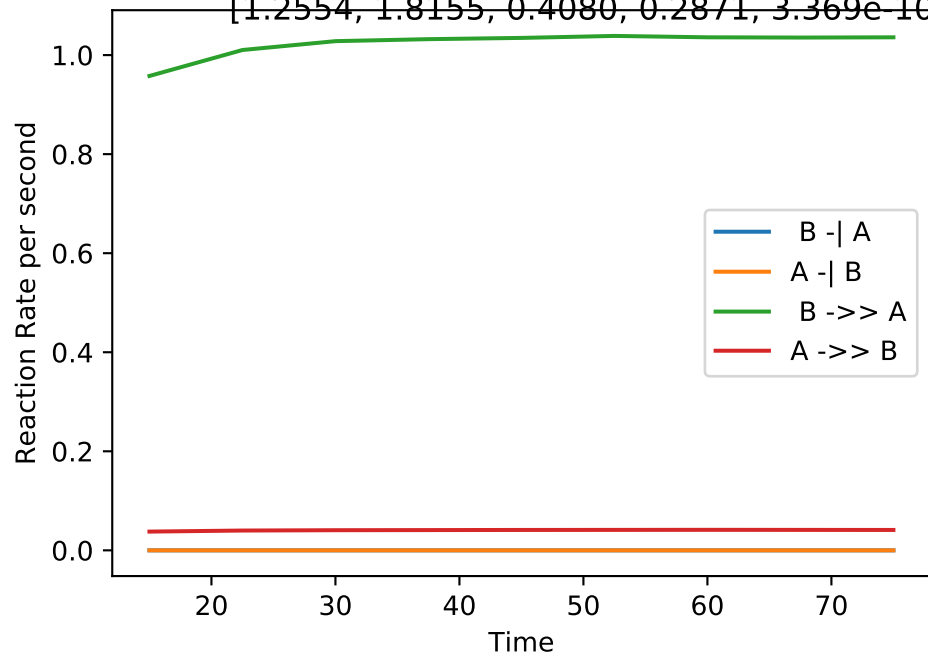
Double_up | MB-LLS Double_up(#318):

[0.0001, 1.0140, 0.2707, 0.0077, 0.001417, 0.0006555, 0.0596, 0.2498, 0.0000, 0.0000]



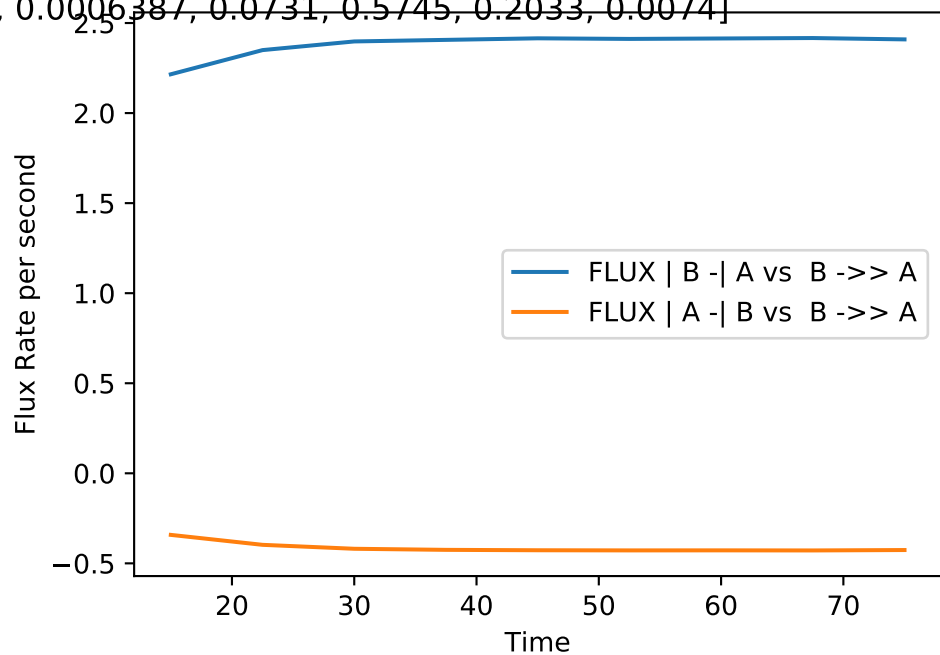
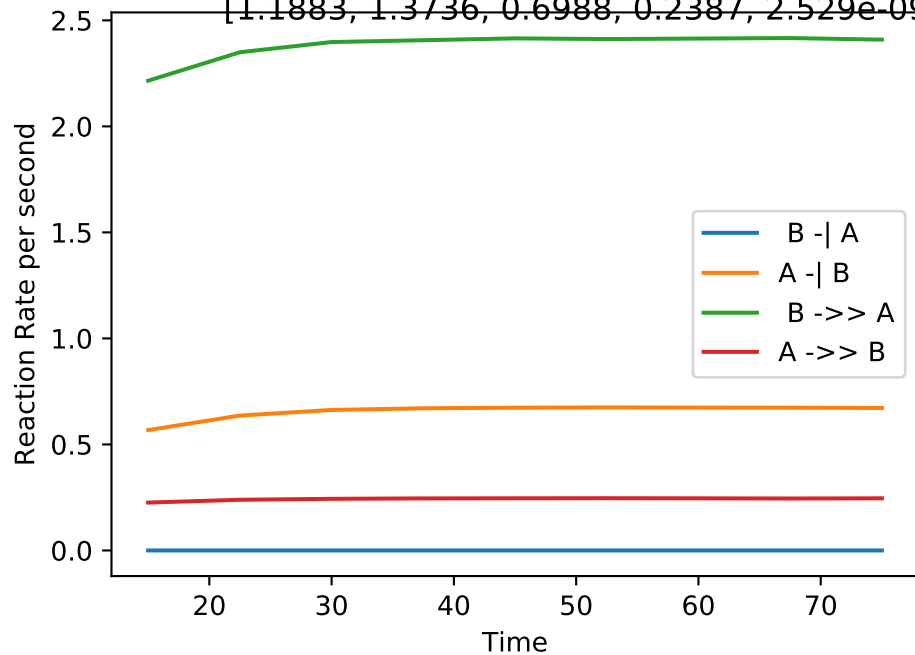
Double_up | MB-LLS Double_up(#319):

[1.2554, 1.8155, 0.4080, 0.2871, 3.369e-10, 5.943e-09, 0.0313, 0.3300, 0.2248, 0.0012]



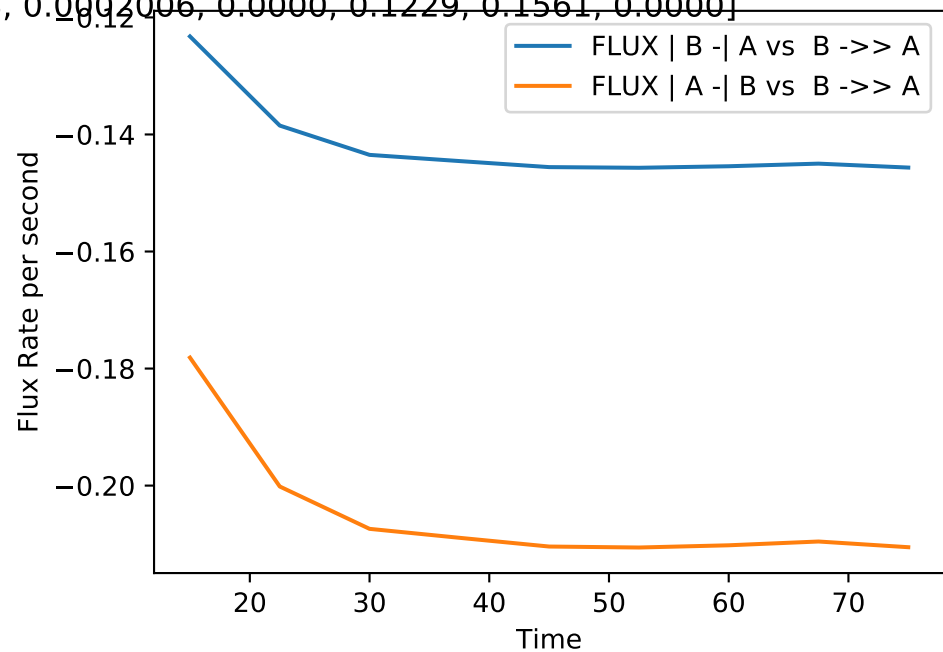
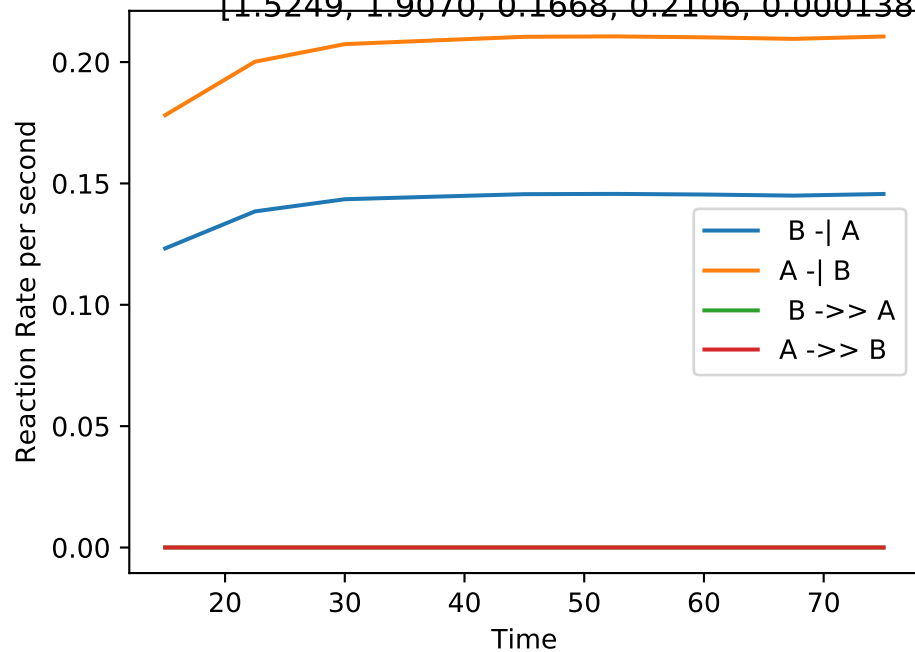
Double_up | MB-LLS Double_up(#320):

[1.1883, 1.3736, 0.6988, 0.2387, 2.529e-09, 0.0006387, 0.0731, 0.5745, 0.2033, 0.0074]



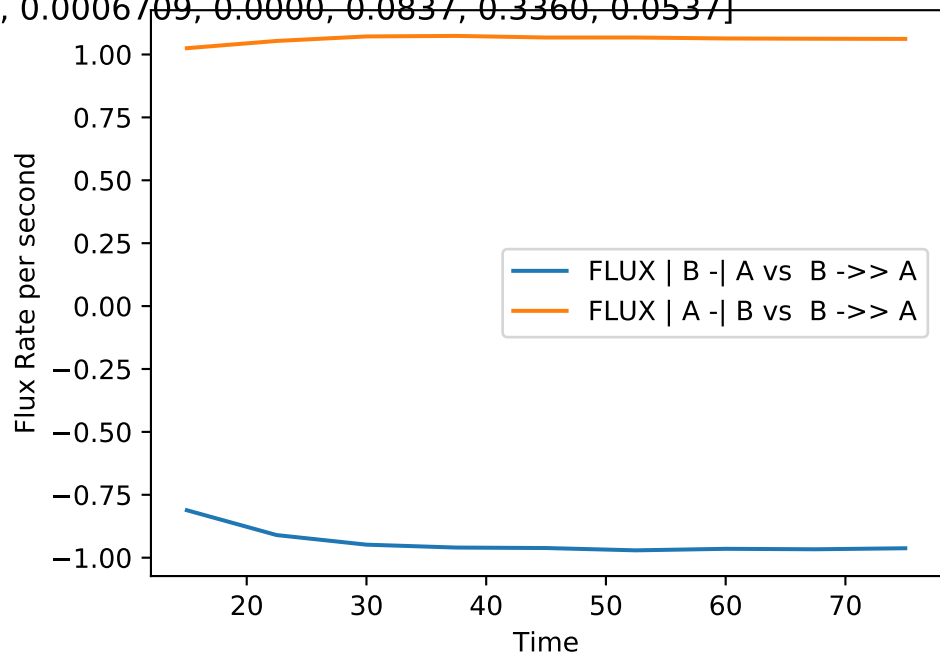
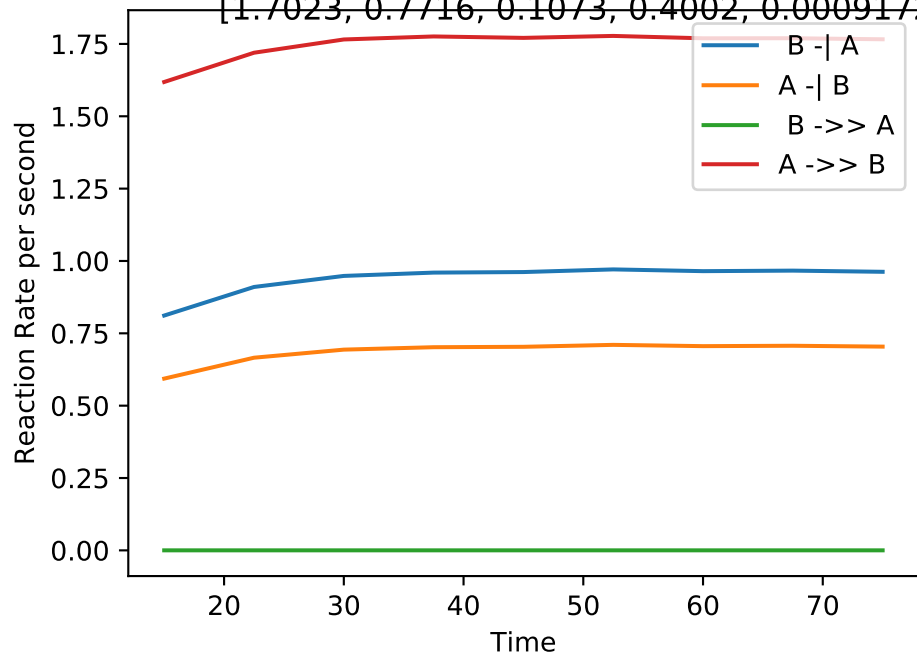
Double_up | MB-LLS Double_up(#321):

[1.5249, 1.9070, 0.1668, 0.2106, 0.0001388, 0.0002006, 0.0000, 0.1229, 0.1561, 0.0000]



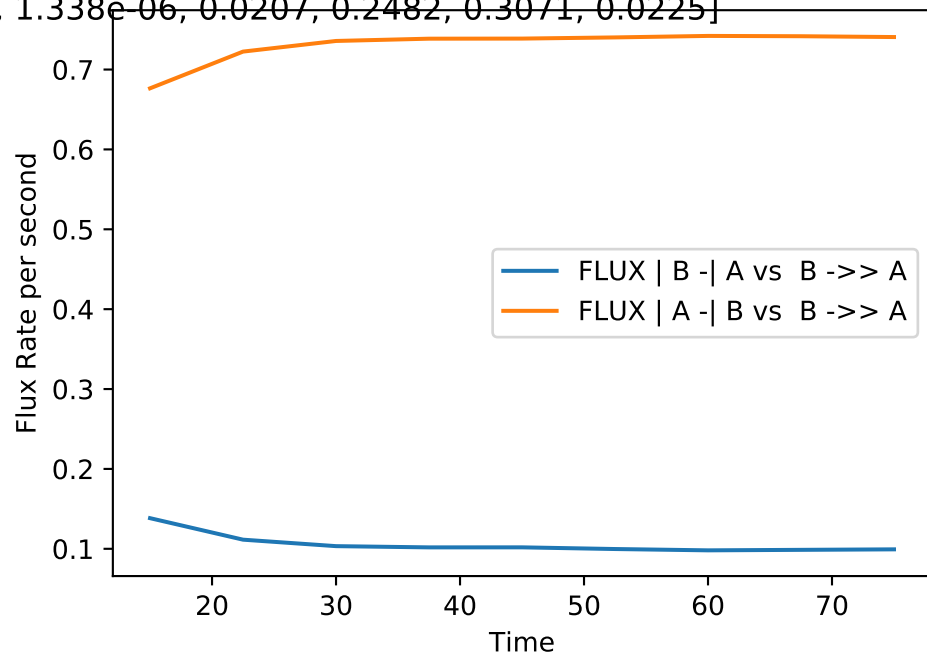
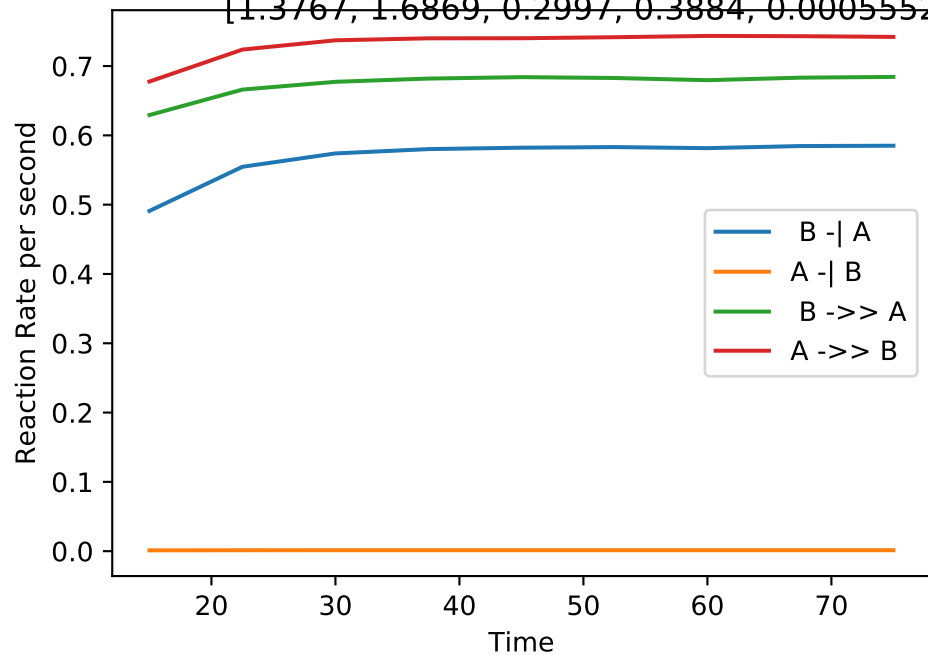
Double_up | MB-LLS Double_up(#322):

[1.7023, 0.7716, 0.1073, 0.4002, 0.0009172, 0.0006709, 0.0000, 0.0837, 0.3360, 0.0537]



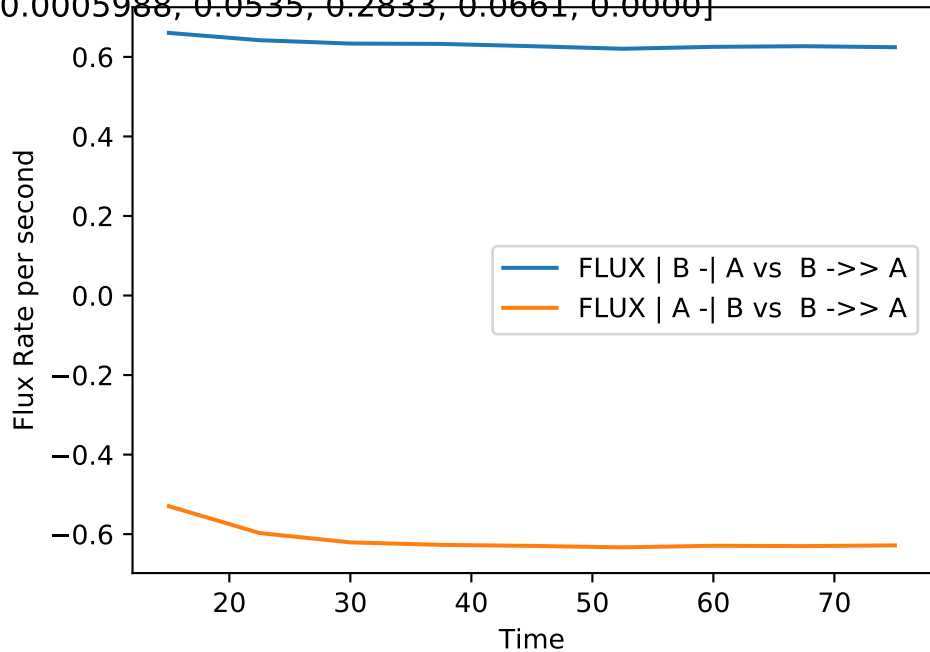
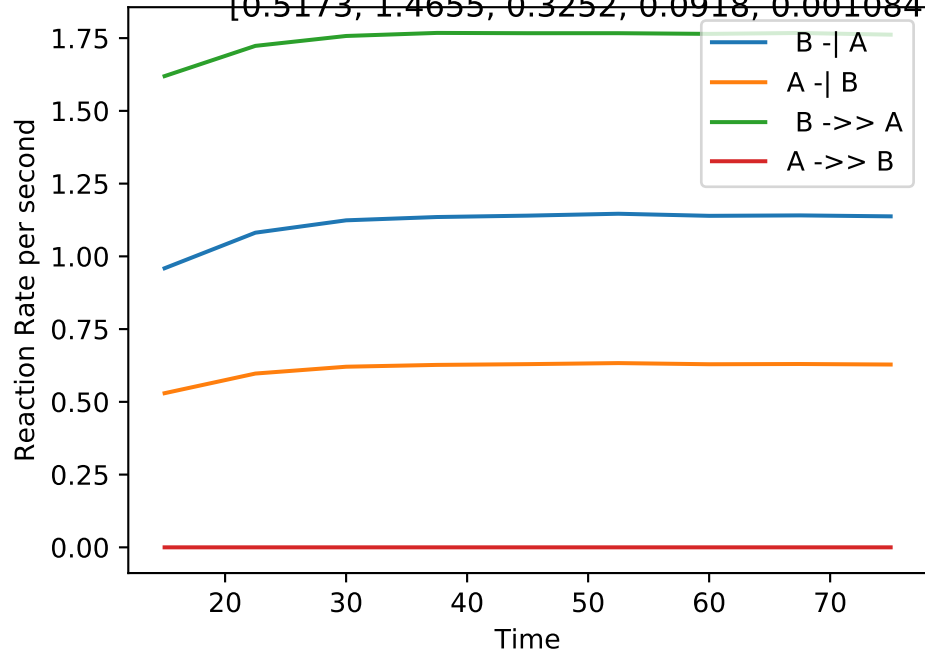
Double_up | MB-LLS Double_up(#323):

[1.3767, 1.6869, 0.2997, 0.3884, 0.0005552, 1.338e-06, 0.0207, 0.2482, 0.3071, 0.0225]



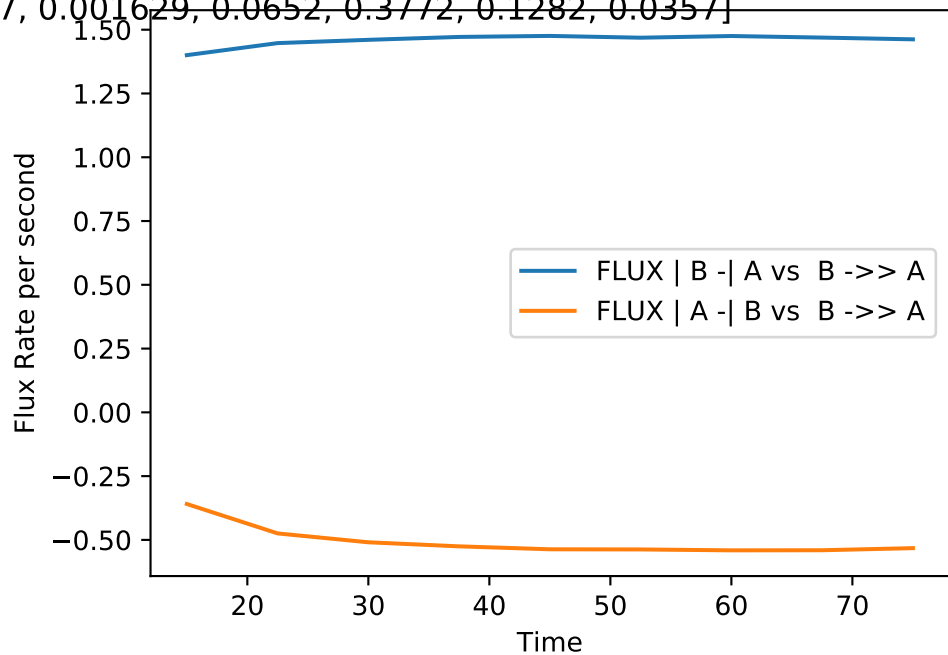
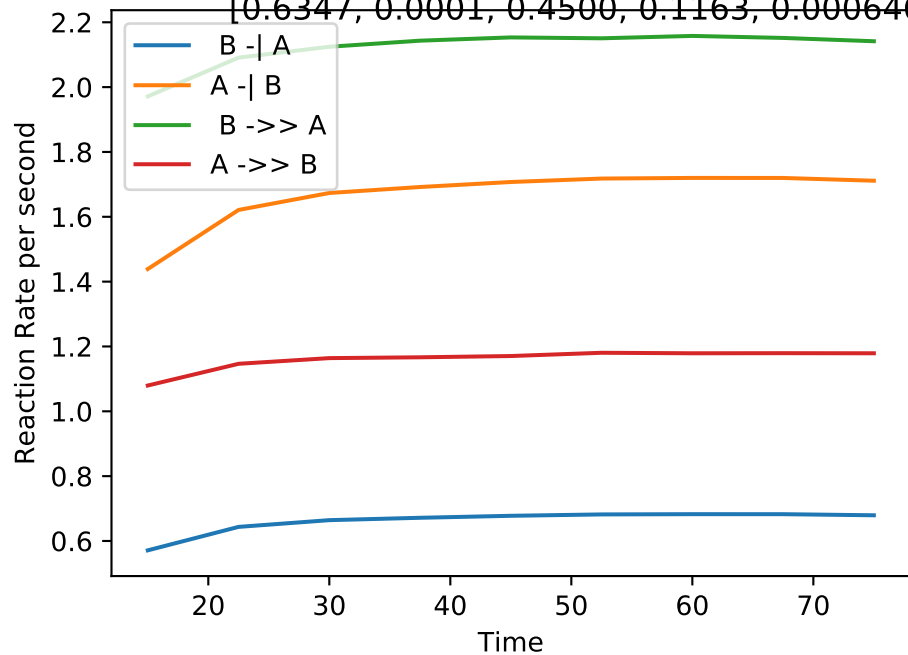
Double_up | MB-LLS Double_up(#324):

[0.5173, 1.4655, 0.3252, 0.0918, 0.001084, 0.0005988, 0.0535, 0.2833, 0.0661, 0.0000]



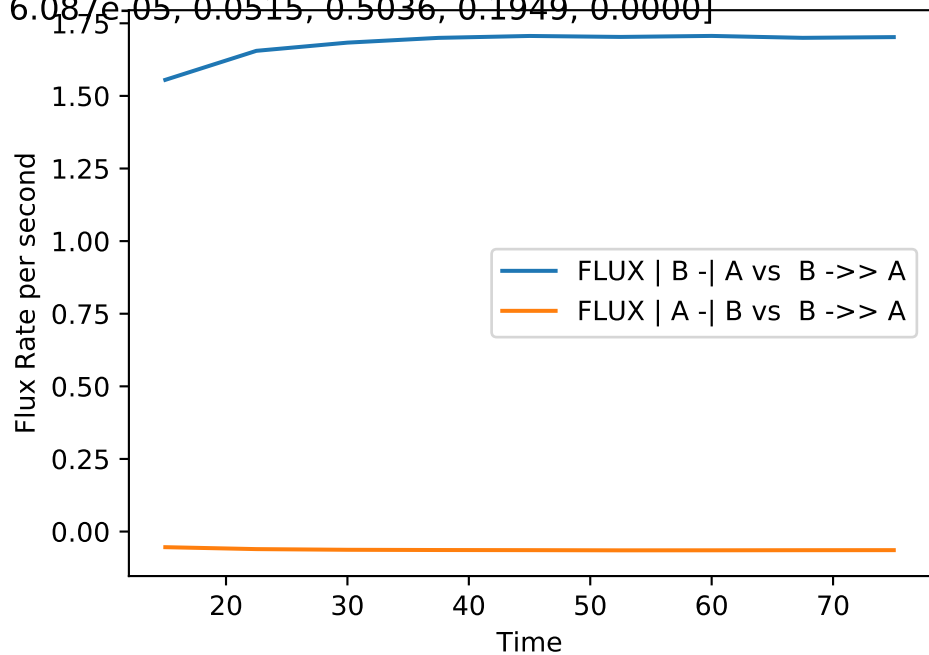
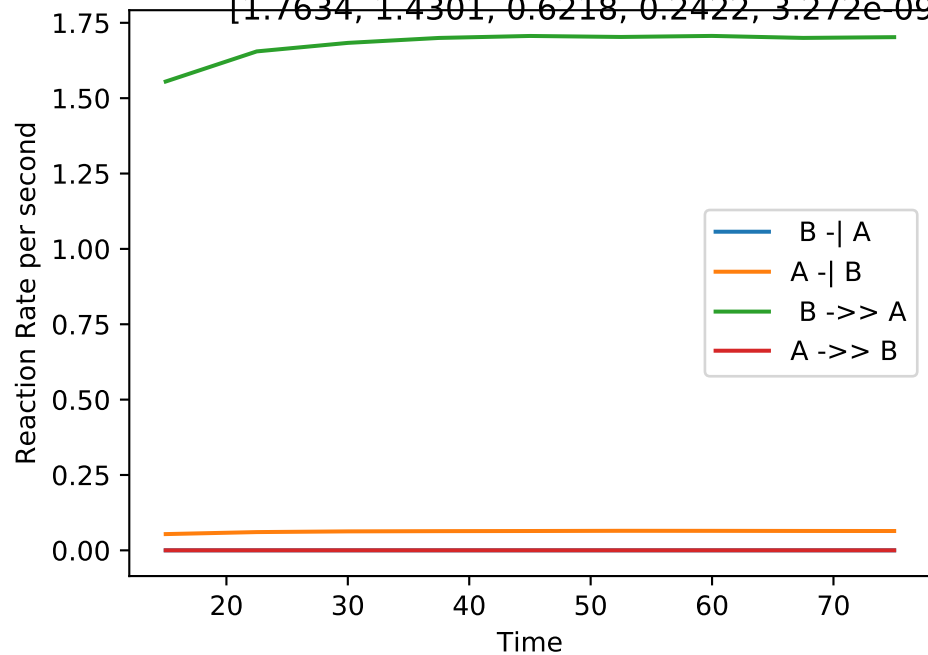
Double_up | MB-LLS Double_up(#325):

[0.6347, 0.0001, 0.4500, 0.1163, 0.0006467, 0.001629, 0.0652, 0.3772, 0.1282, 0.0357]



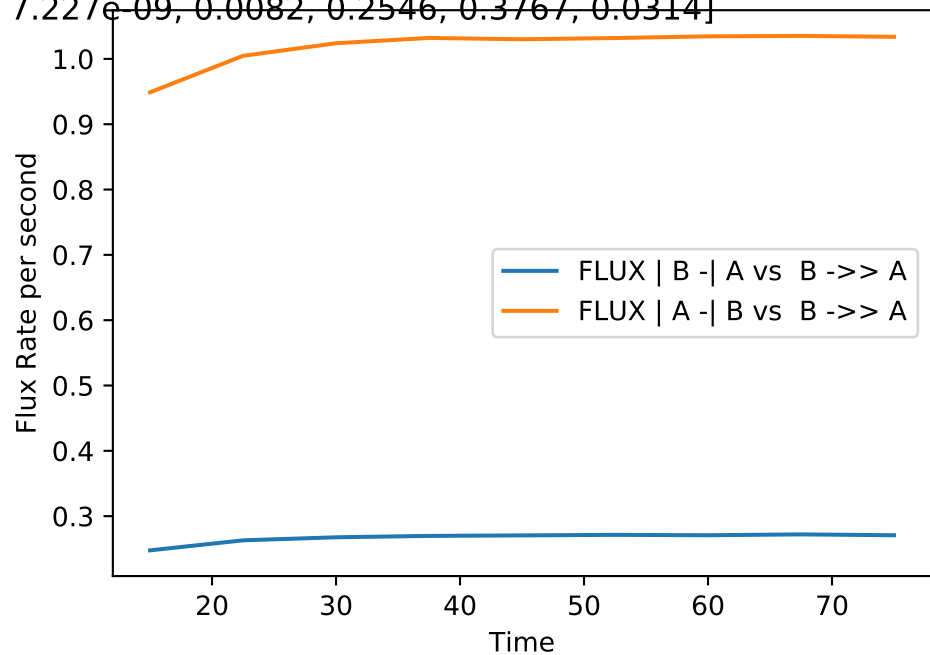
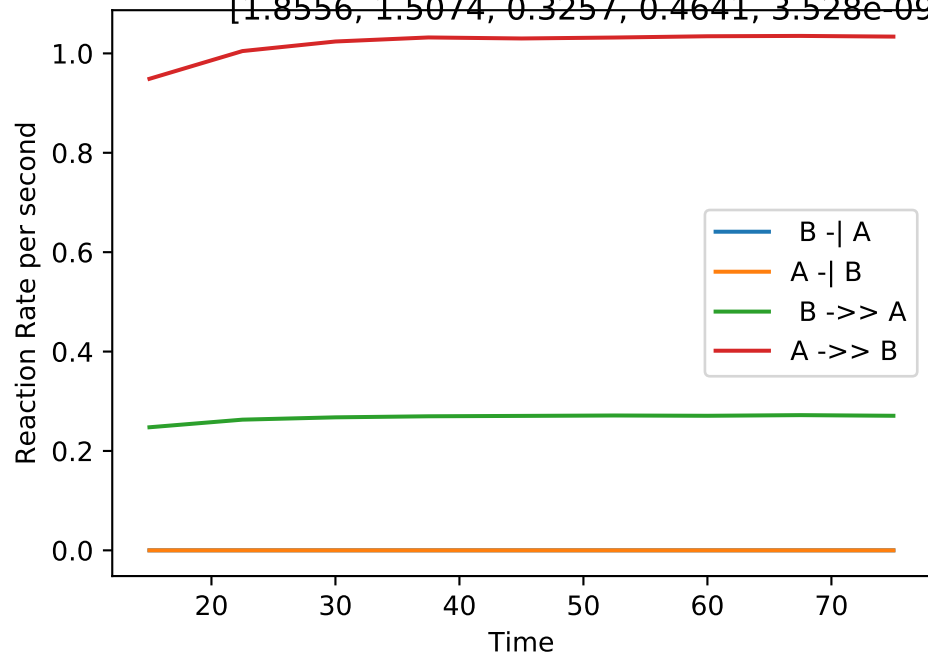
Double_up | MB-LLS Double_up(#326):

[1.7634, 1.4301, 0.6218, 0.2422, 3.272e-09, 6.087e-05, 0.0515, 0.5036, 0.1949, 0.0000]



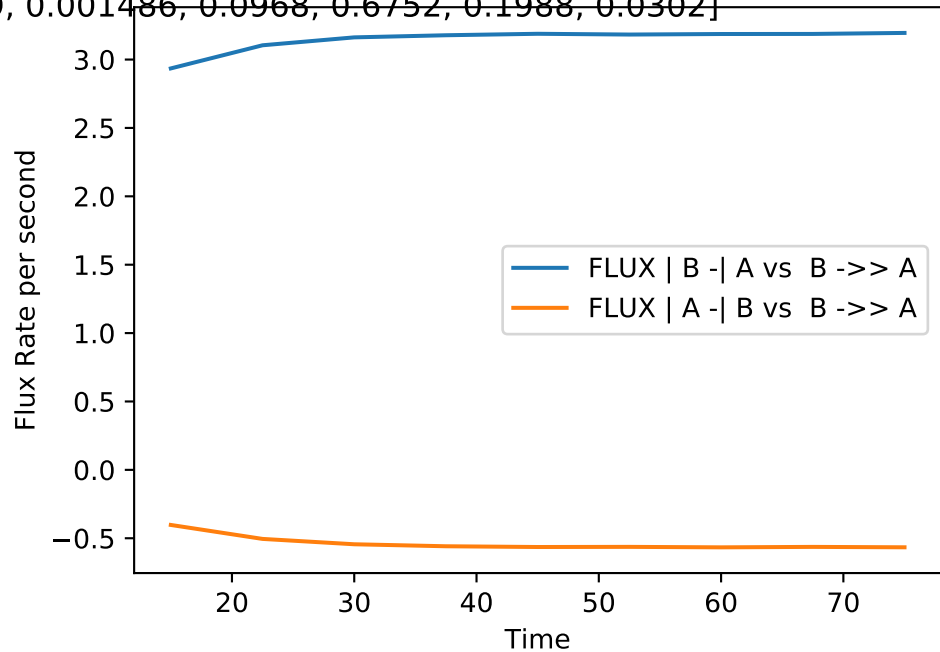
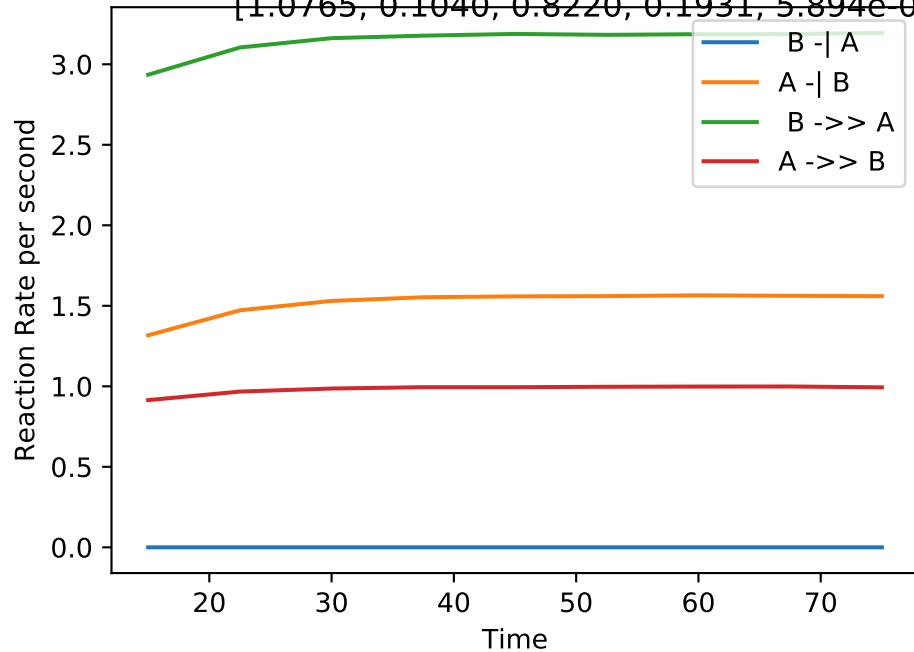
Double_up | MB-LLS Double_up(#327):

[1.8556, 1.5074, 0.3257, 0.4641, 3.528e-09, 7.227e-09, 0.0082, 0.2546, 0.3767, 0.0314]



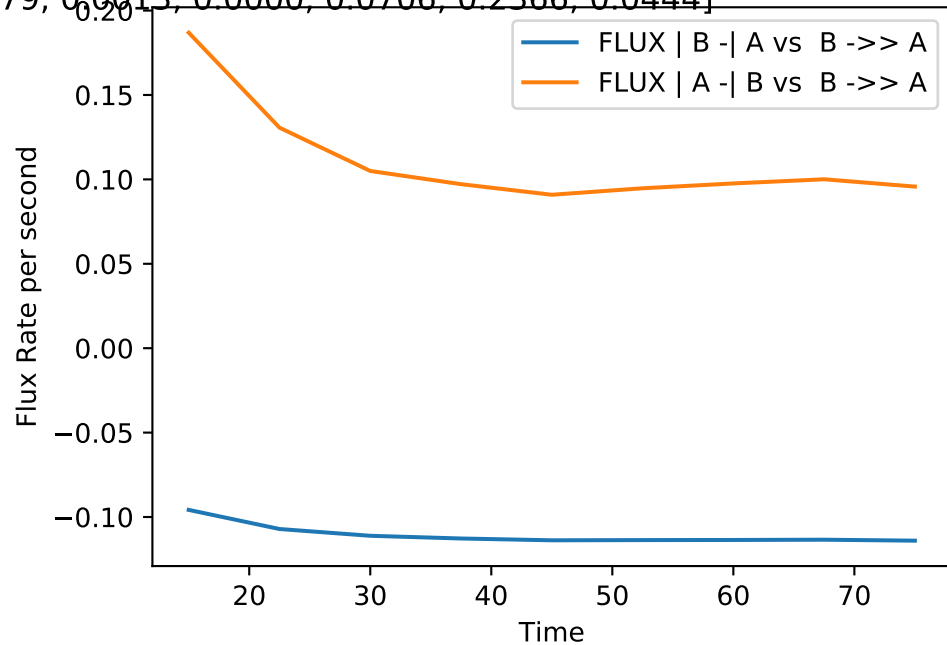
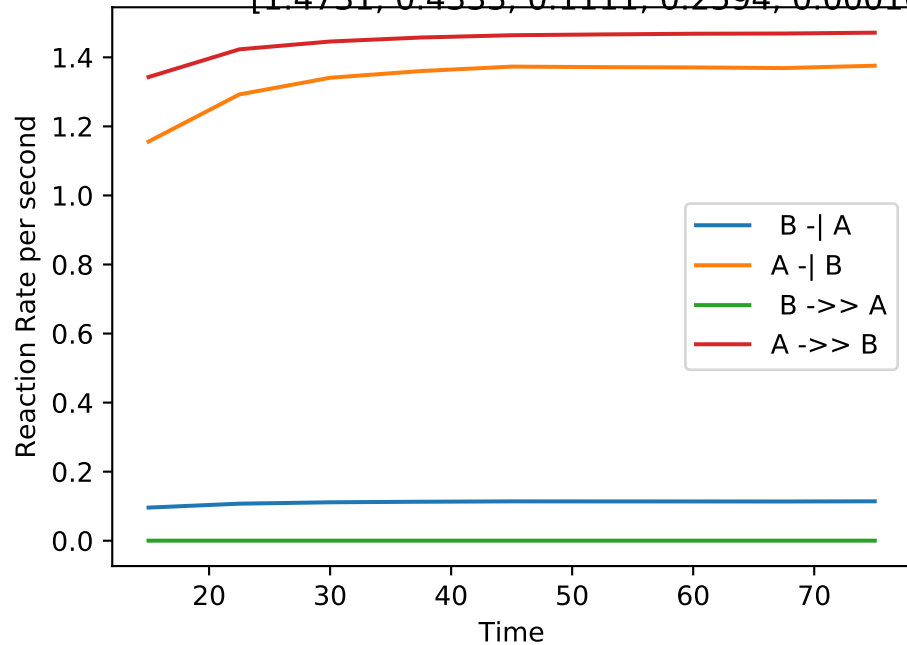
Double_up | MB-LLS Double_up(#328):

[1.0765, 0.1040, 0.8220, 0.1931, 5.894e-09, 0.001486, 0.0968, 0.6752, 0.1988, 0.0302]



Double_up | MB-LLS Double_up(#329):

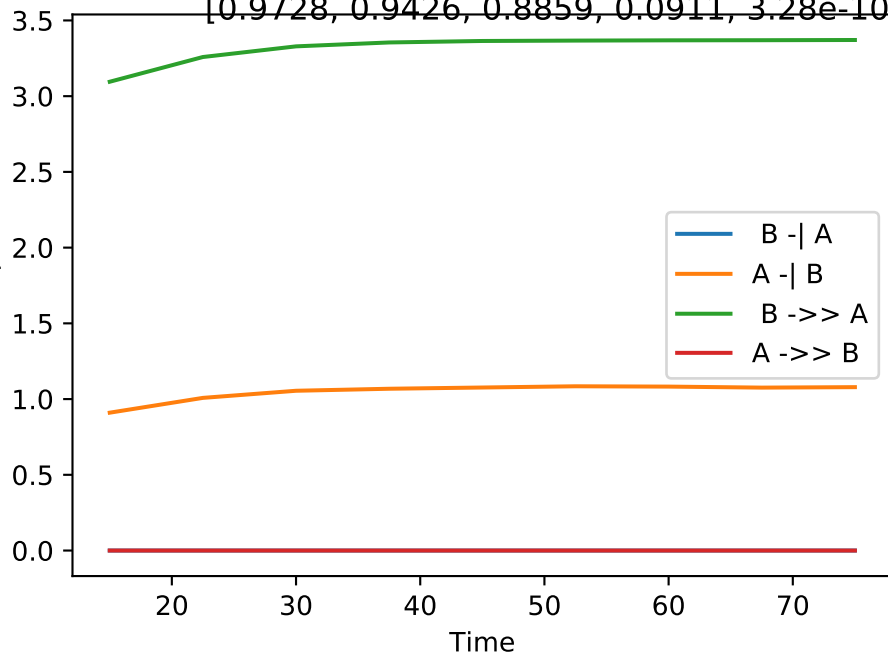
[1.4731, 0.4333, 0.1111, 0.2594, 0.0001079, 0.0013, 0.0000, 0.0706, 0.2366, 0.0444]



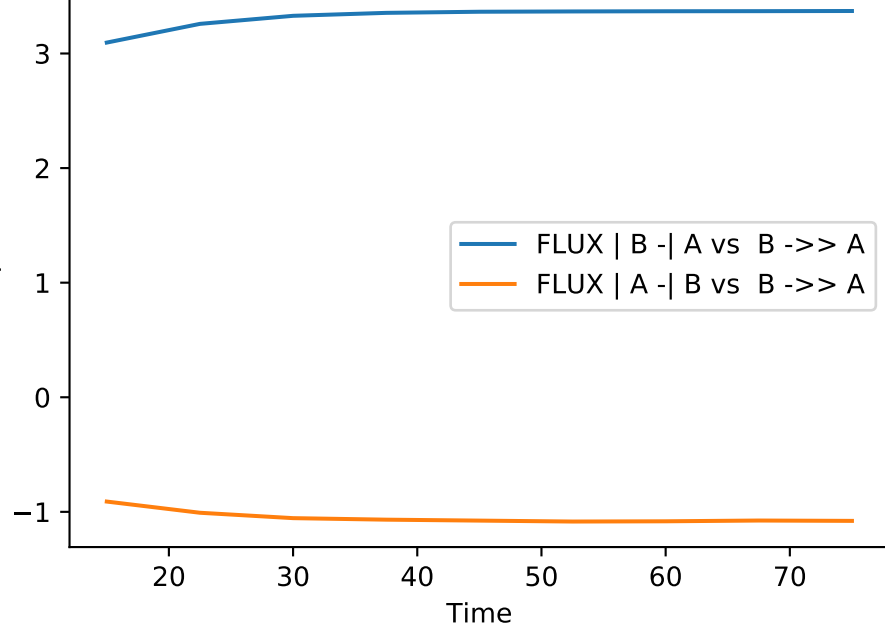
Double_up | MB-LLS Double_up(#330):

[0.9728, 0.9426, 0.8859, 0.0911, 3.28e-10, 0.001022, 0.1022, 0.7353, 0.0914, 0.0000]

Reaction Rate per second

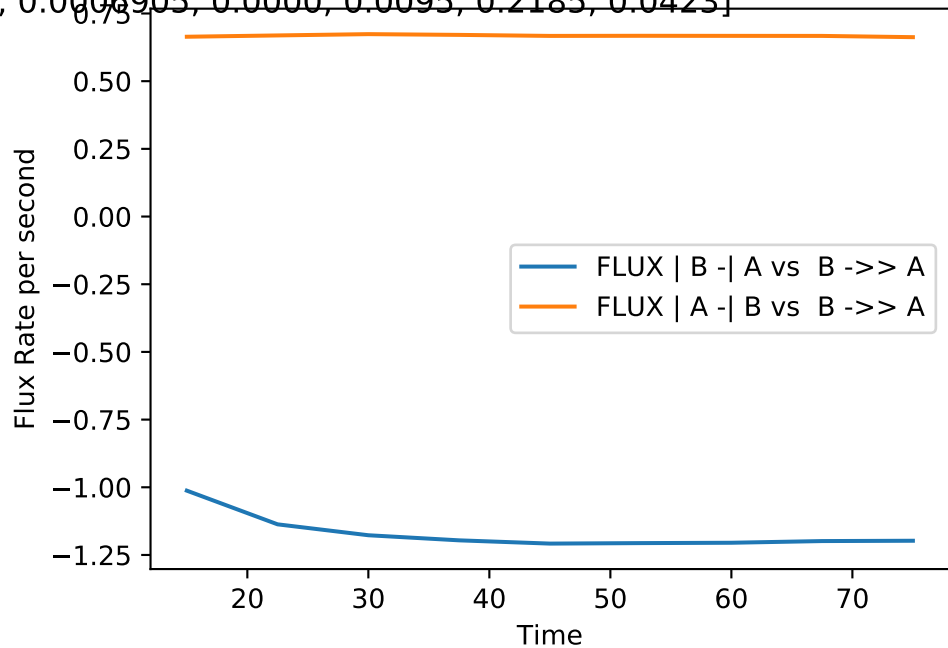
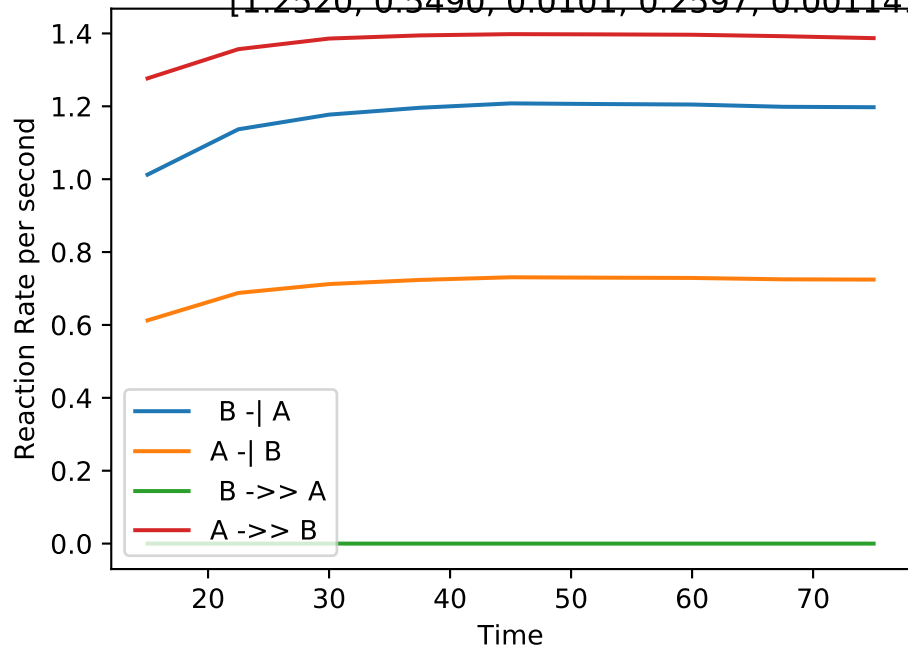


Flux Rate per second



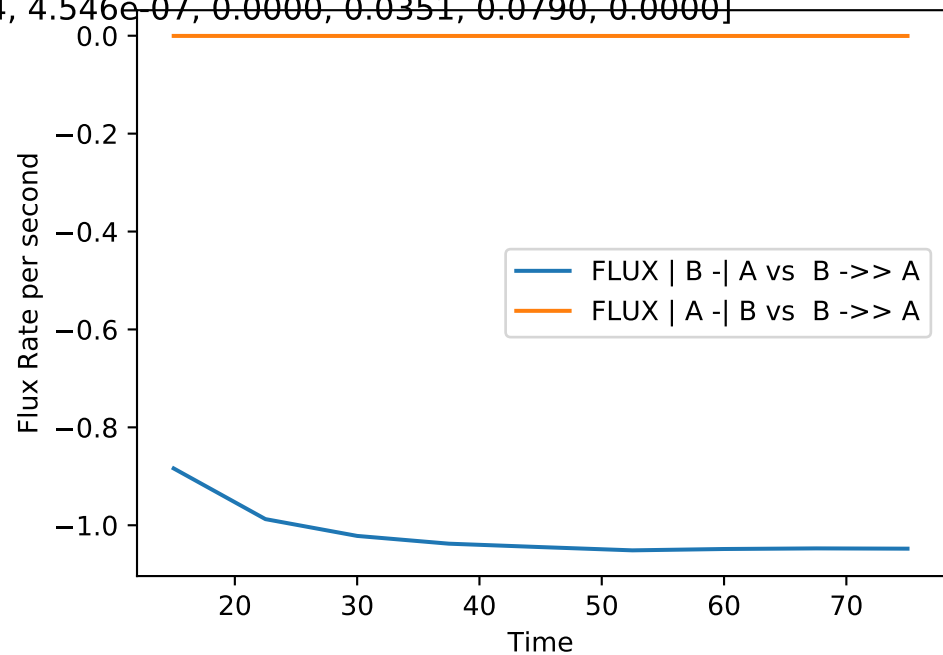
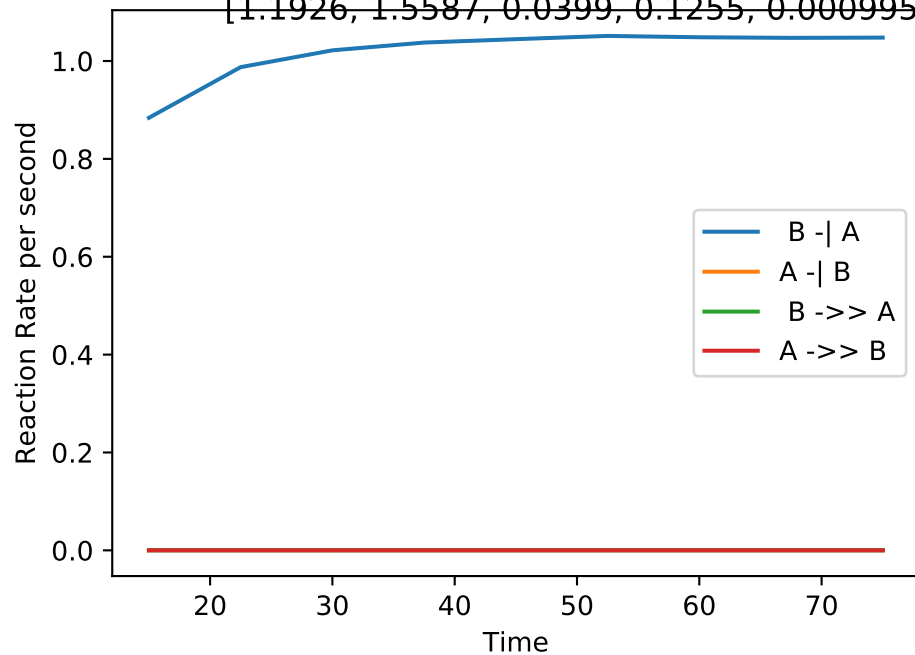
Double_up | MB-LLS Double_up(#331):

[1.2520, 0.5490, 0.0101, 0.2597, 0.001141, 0.0006905, 0.0000, 0.0095, 0.2185, 0.0423]



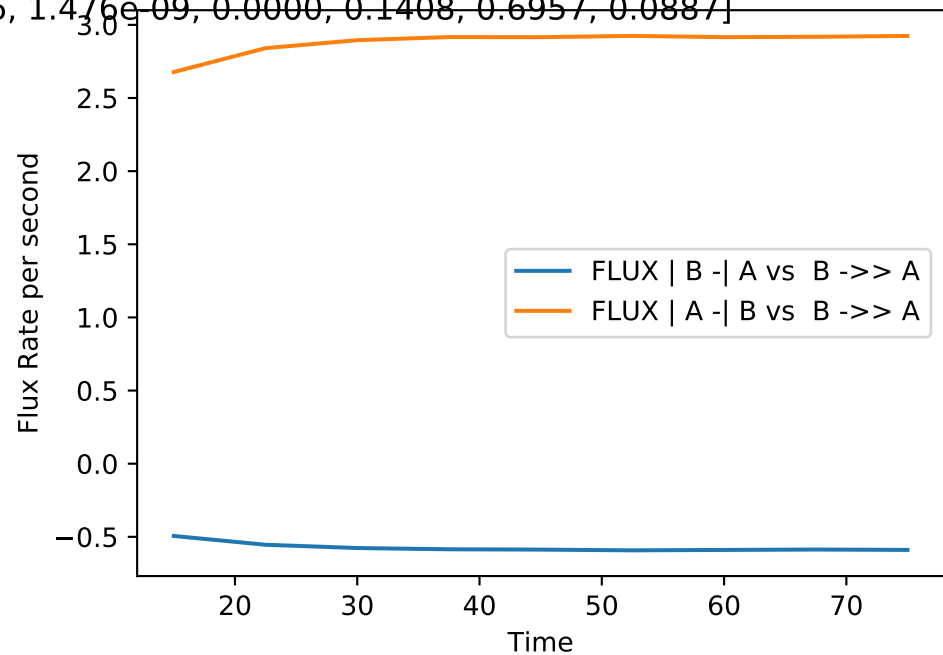
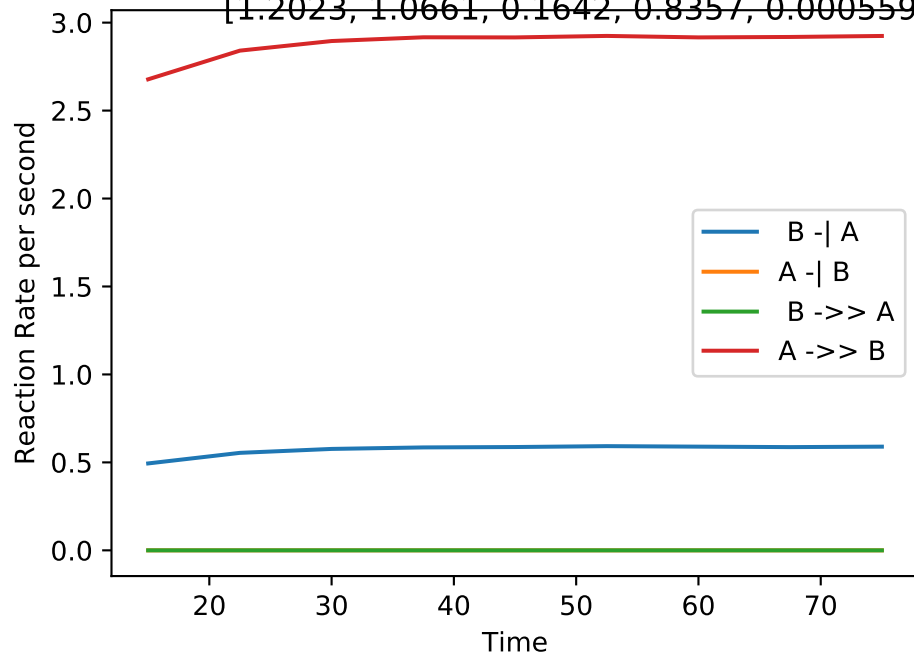
Double_up | MB-LLS Double_up(#332):

[1.1926, 1.5587, 0.0399, 0.1255, 0.0009954, 4.546e-07, 0.0000, 0.0351, 0.0790, 0.0000]



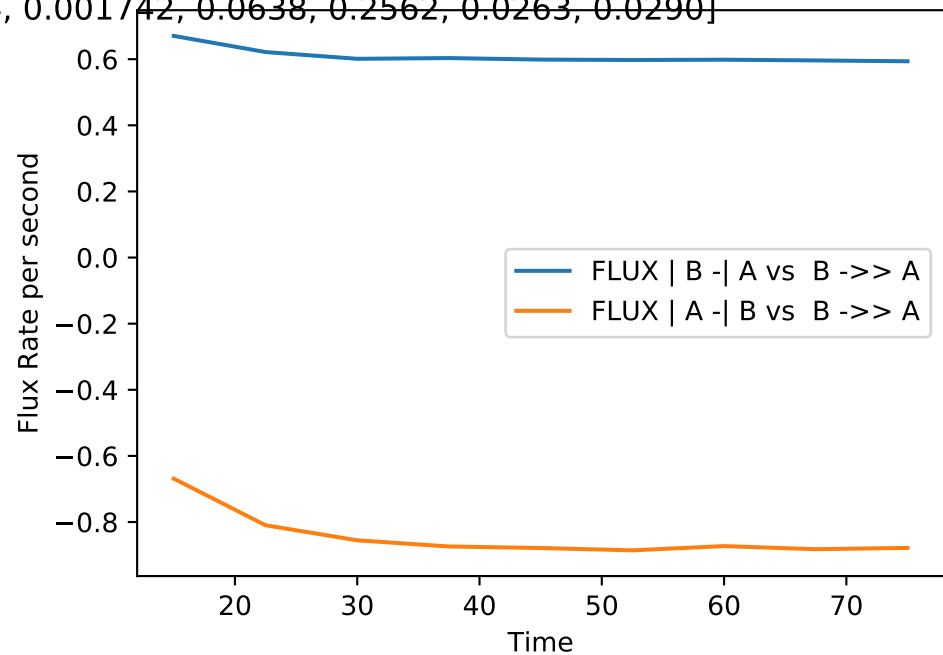
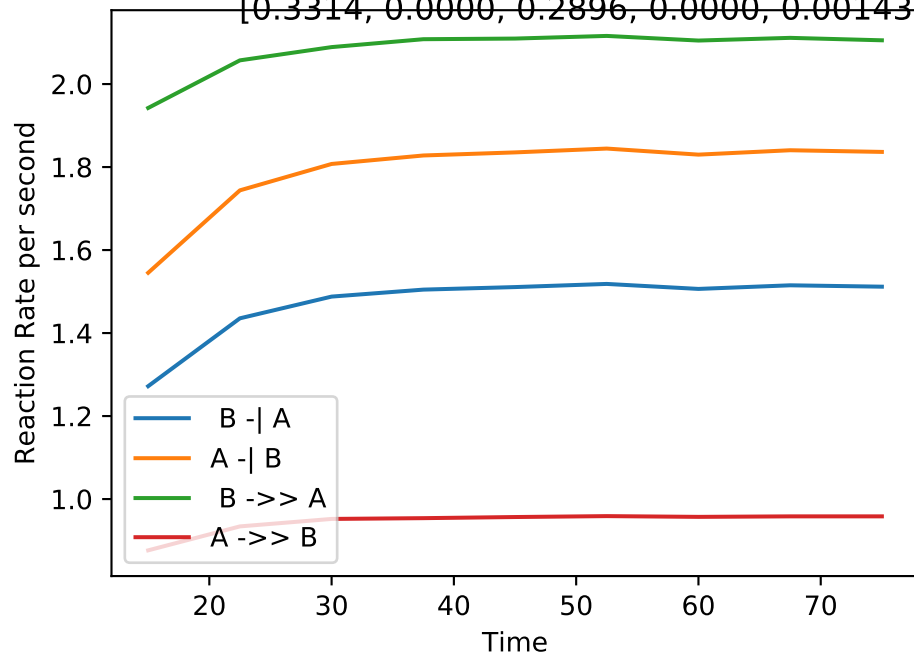
Double_up | MB-LLS Double_up(#333):

[1.2023, 1.0661, 0.1642, 0.8357, 0.0005596, 1.476e-09, 0.0000, 0.1408, 0.6957, 0.0887]



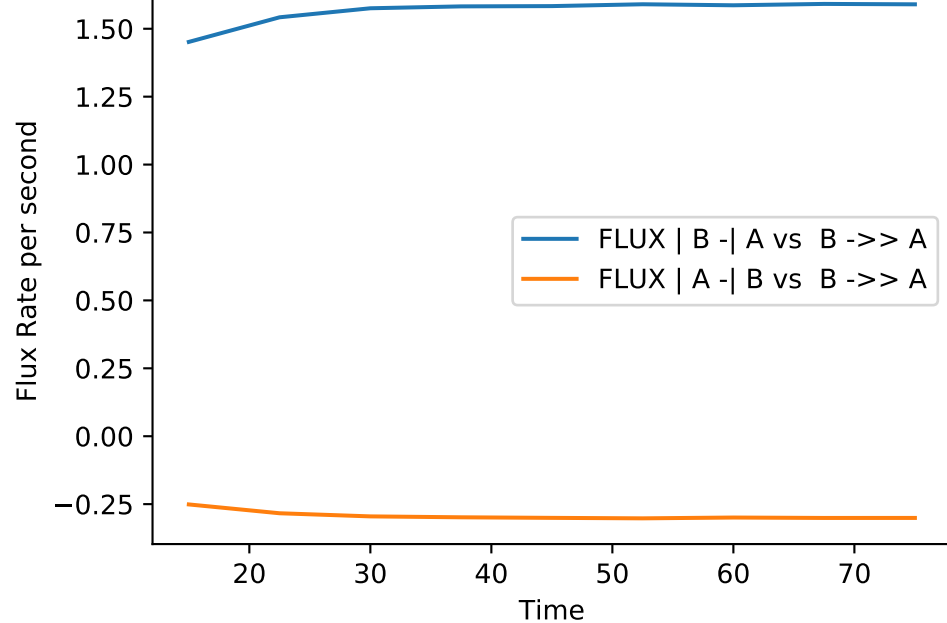
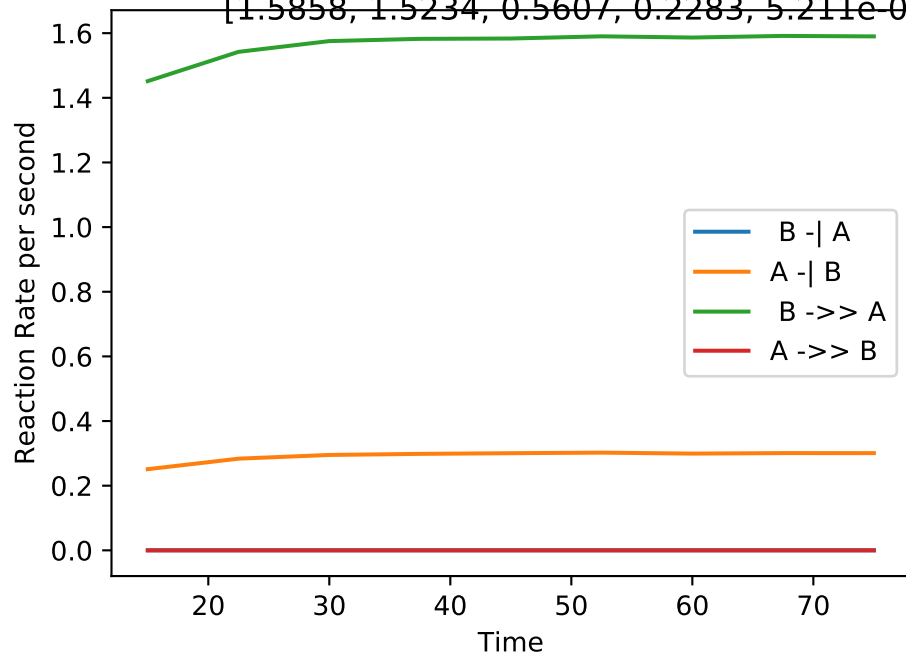
Double_up | MB-LLS Double_up(#334):

[0.3314, 0.0000, 0.2896, 0.0000, 0.001434, 0.001742, 0.0638, 0.2562, 0.0263, 0.0290]



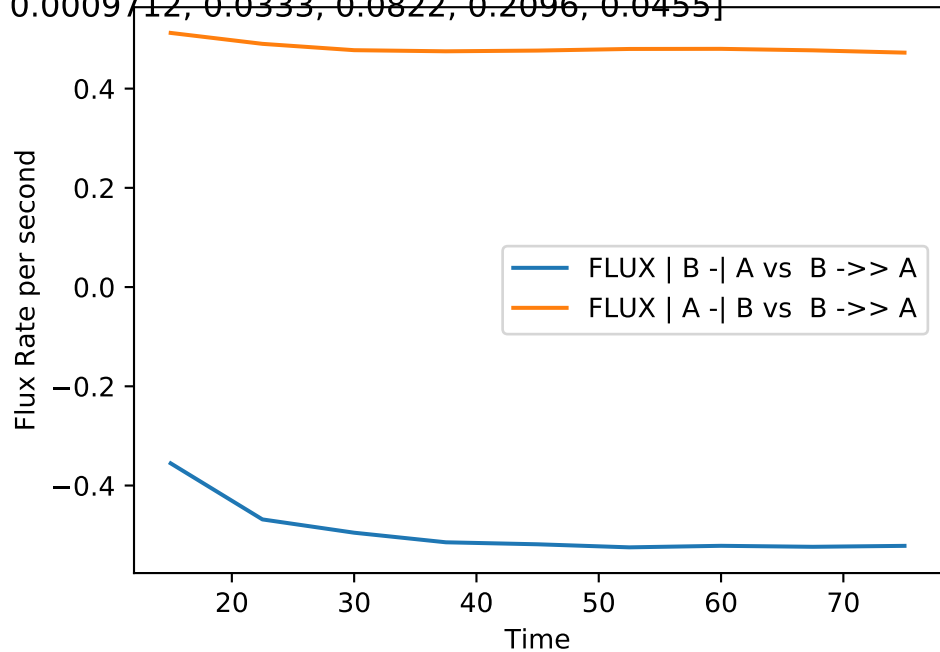
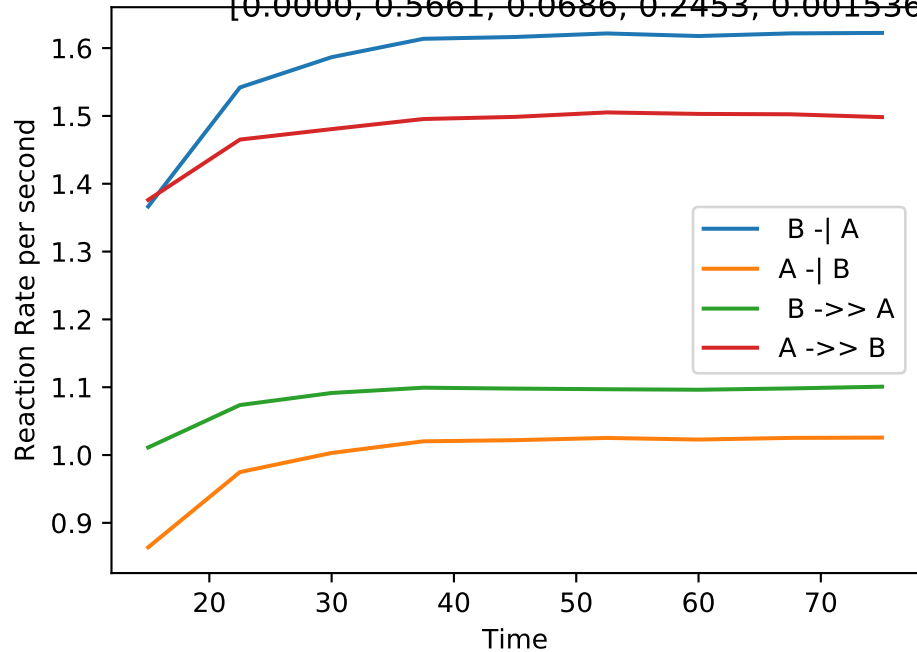
Double_up | MB-LLS Double_up(#335):

[1.5858, 1.5234, 0.5607, 0.2283, 5.211e-08, 0.0002851, 0.0482, 0.4531, 0.1855, 0.0000]



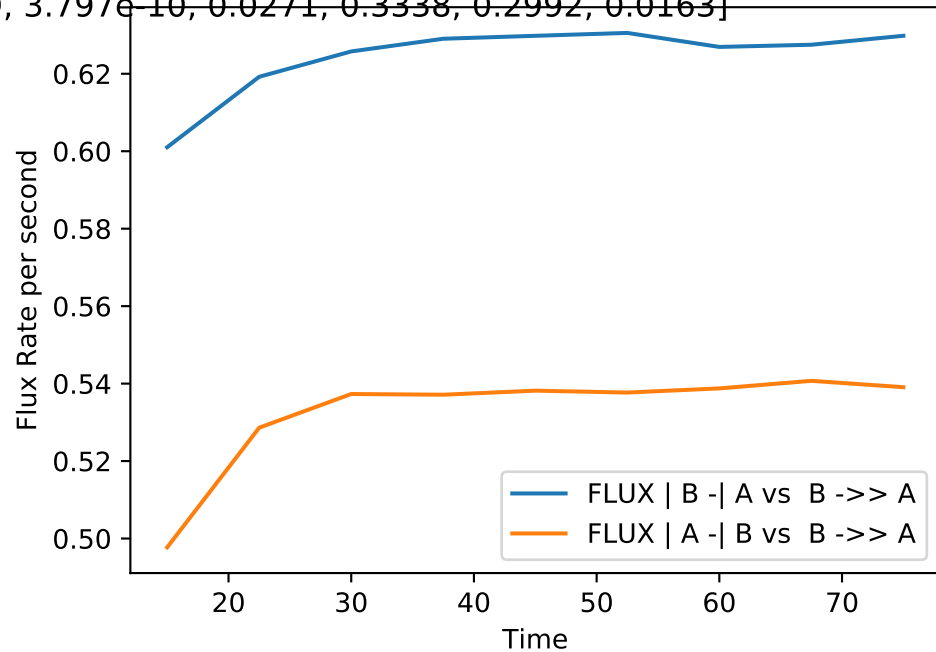
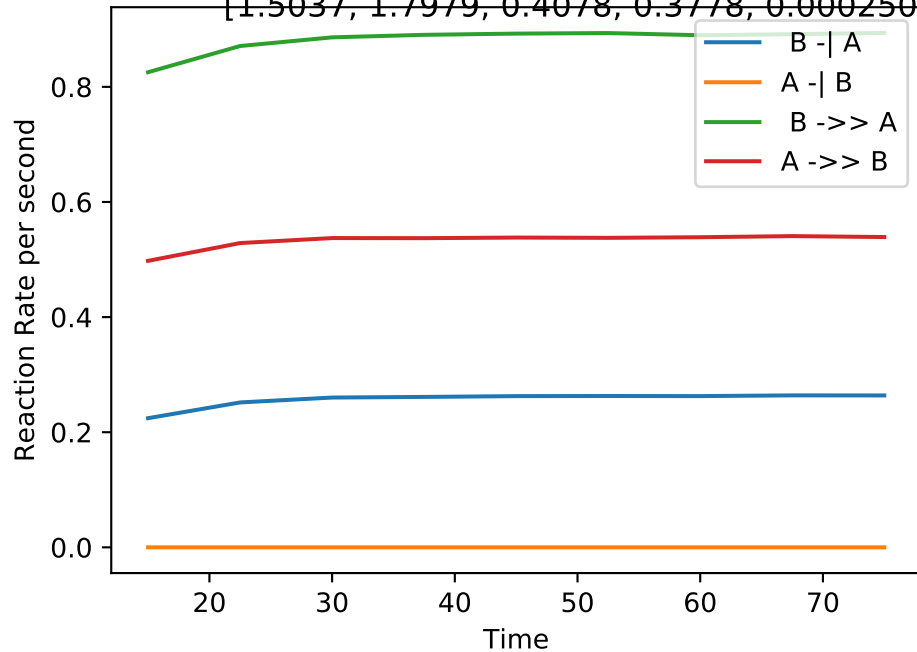
Double_up | MB-LLS Double_up(#336):

[0.0000, 0.5661, 0.0686, 0.2453, 0.001536, 0.0009712, 0.0333, 0.0822, 0.2096, 0.0455]



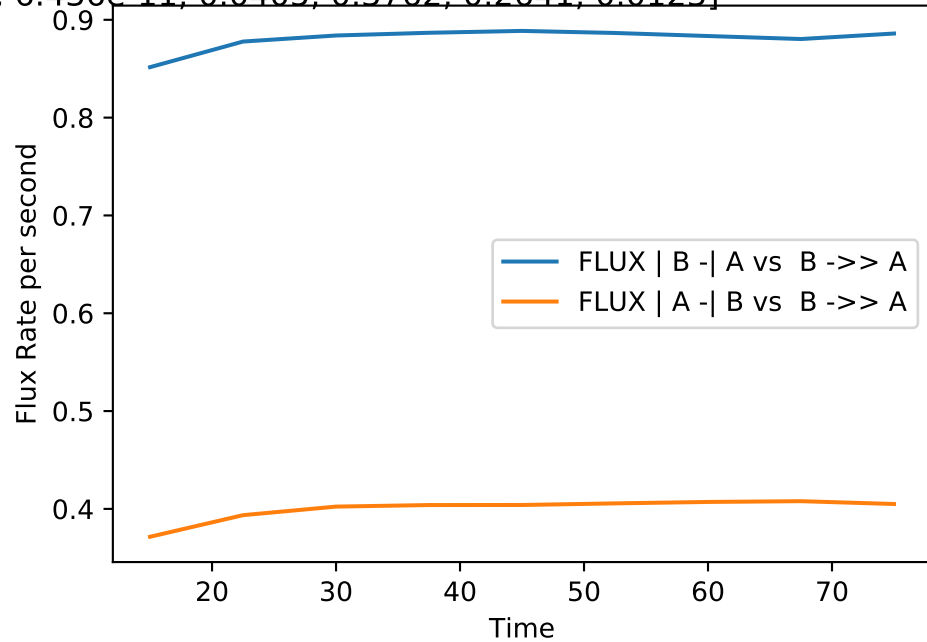
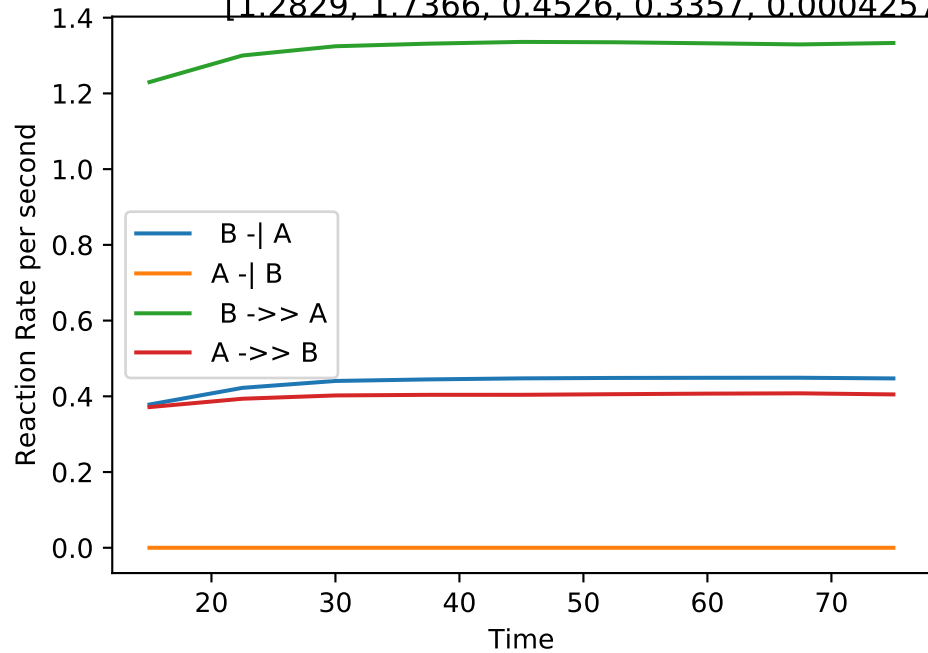
Double_up | MB-LLS Double_up(#337):

[1.5037, 1.7979, 0.4078, 0.3778, 0.0002509, 3.797e-10, 0.0271, 0.3338, 0.2992, 0.0163]



Double_up | MB-LLS Double_up(#338):

[1.2829, 1.7366, 0.4526, 0.3357, 0.0004257, 6.436e-11, 0.0405, 0.3762, 0.2641, 0.0123]



Double_up | MB-LLS Double_up(#339):

[1.8641, 1.0762, 0.2866, 0.7807, 0.0001119, 4.224e-11, 0.0000, 0.2271, 0.6508, 0.0788]

Reaction Rate per second

2.5
2.0
1.5
1.0
0.5
0.0

20

30

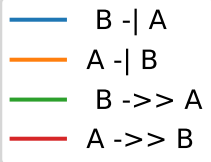
40

50

60

70

Time



Flux Rate per second

2.5
2.0
1.5
1.0
0.5
0.0

20

30

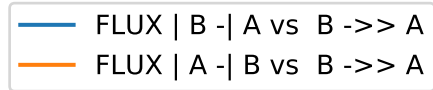
40

50

60

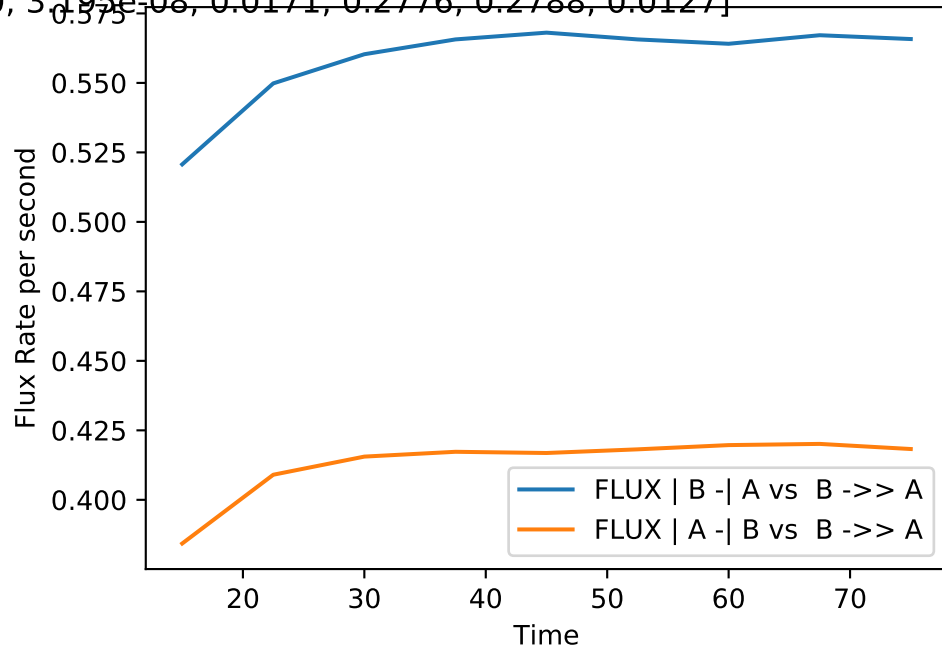
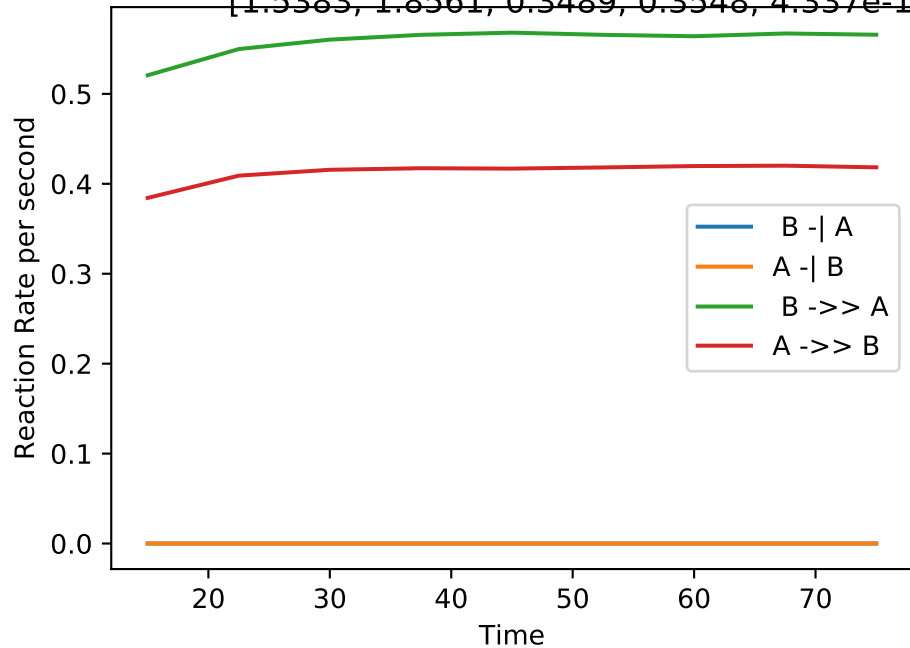
70

Time



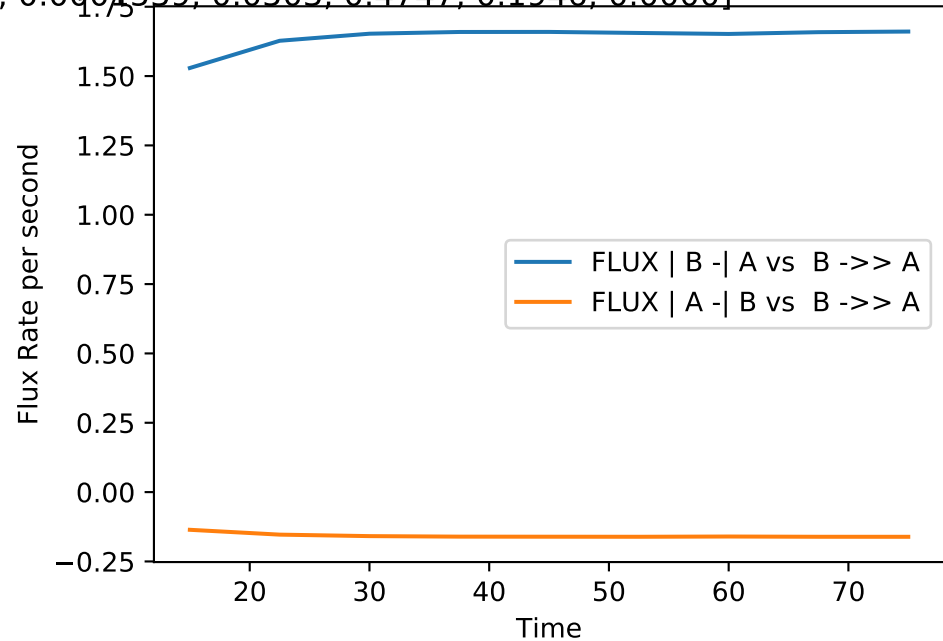
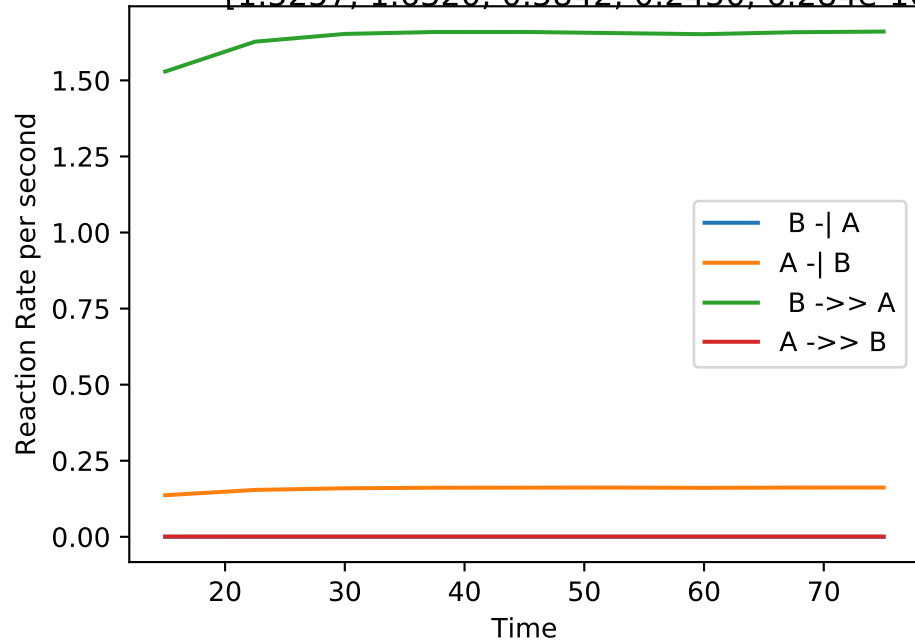
Double_up | MB-LLS Double_up(#340):

[1.5383, 1.8561, 0.3489, 0.3548, 4.337e-10, 3.195e-08, 0.0171, 0.2776, 0.2788, 0.0127]



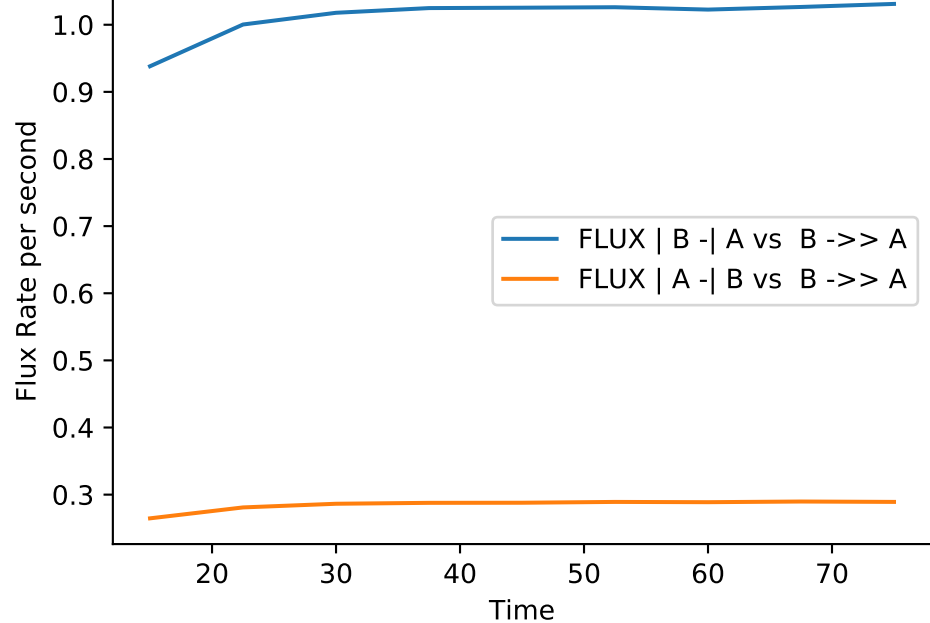
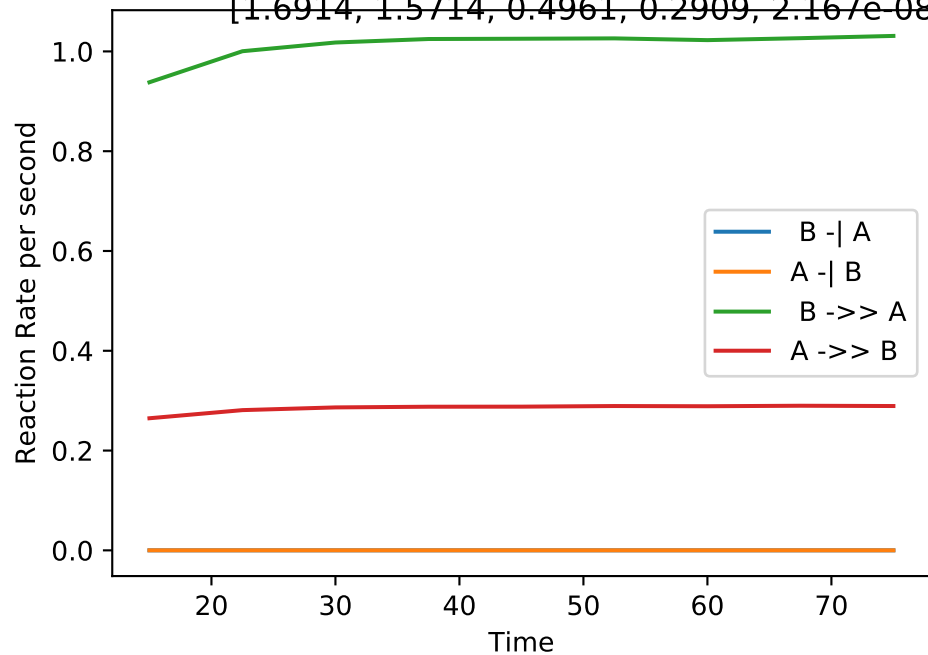
Double_up | MB-LLS Double_up(#341):

[1.5257, 1.6320, 0.5842, 0.2450, 6.284e-10, 0.0001539, 0.0503, 0.4747, 0.1946, 0.0000]



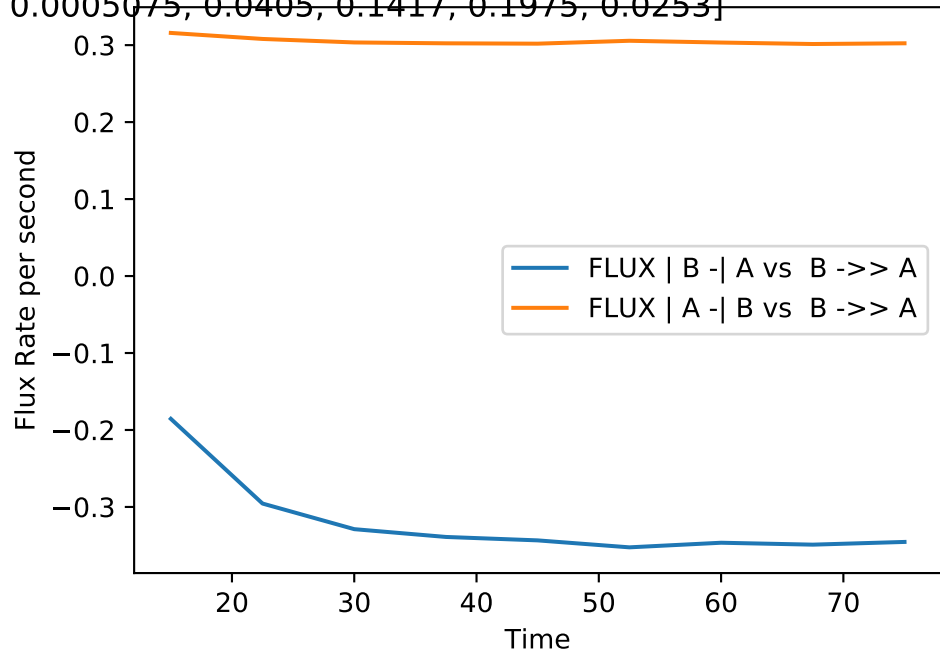
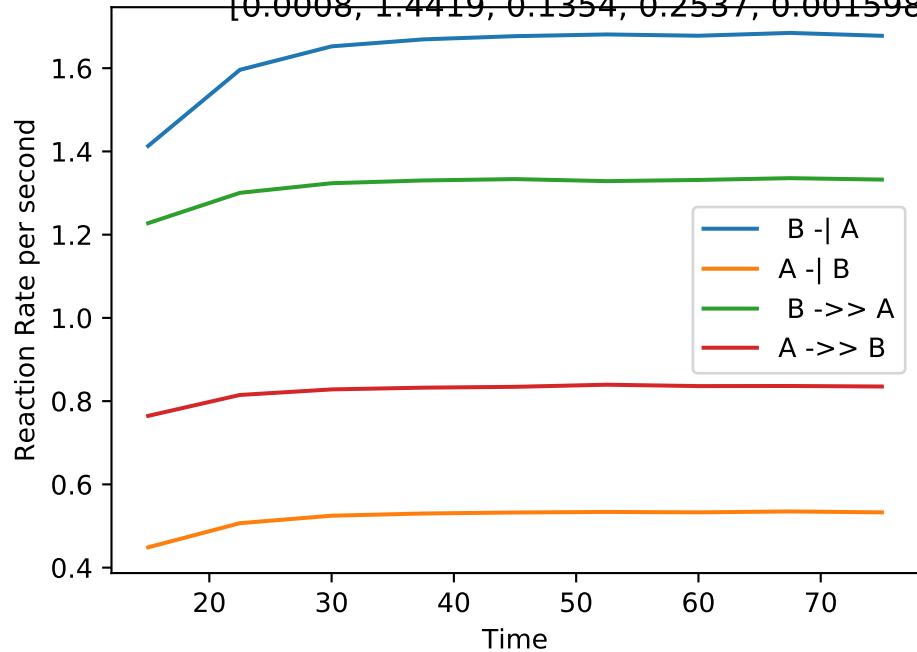
Double_up | MB-LLS Double_up(#342):

[1.6914, 1.5714, 0.4961, 0.2909, 2.167e-08, 8.746e-08, 0.0311, 0.4025, 0.2287, 0.0087]



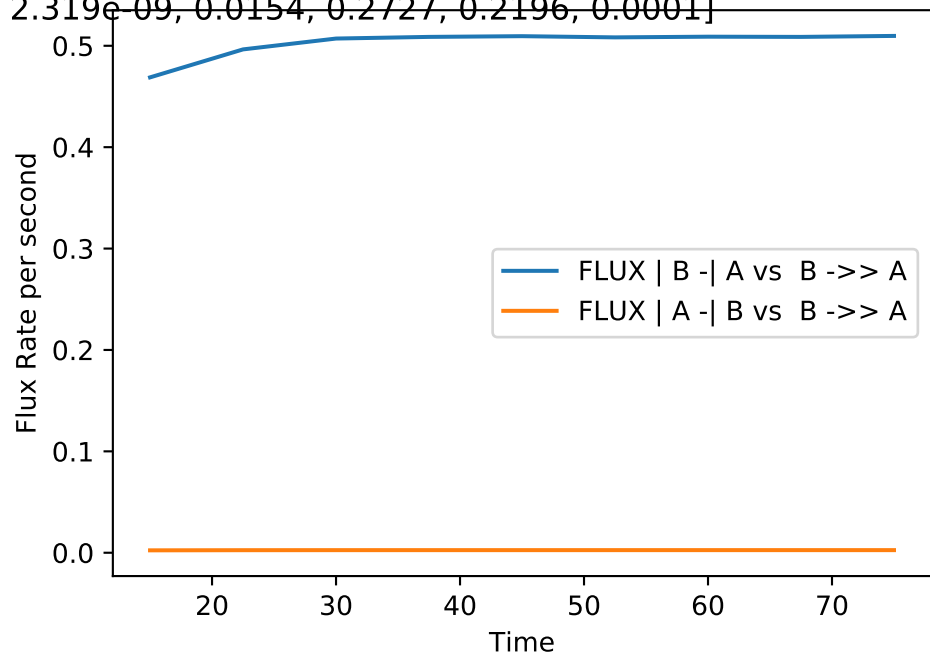
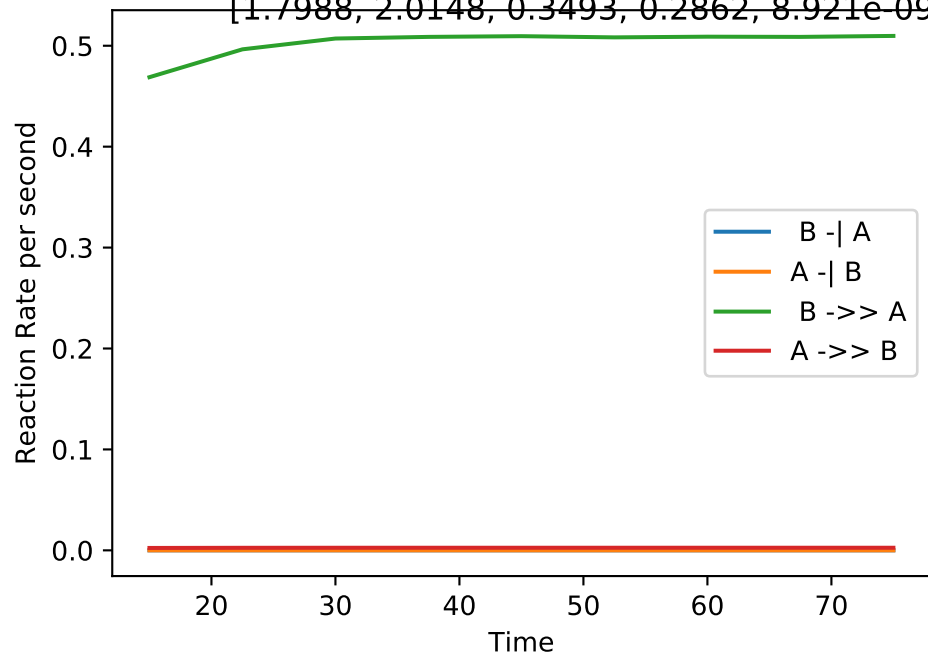
Double_up | MB-LLS Double_up(#343):

[0.0008, 1.4419, 0.1354, 0.2537, 0.001598, 0.0005075, 0.0405, 0.1417, 0.1975, 0.0253]



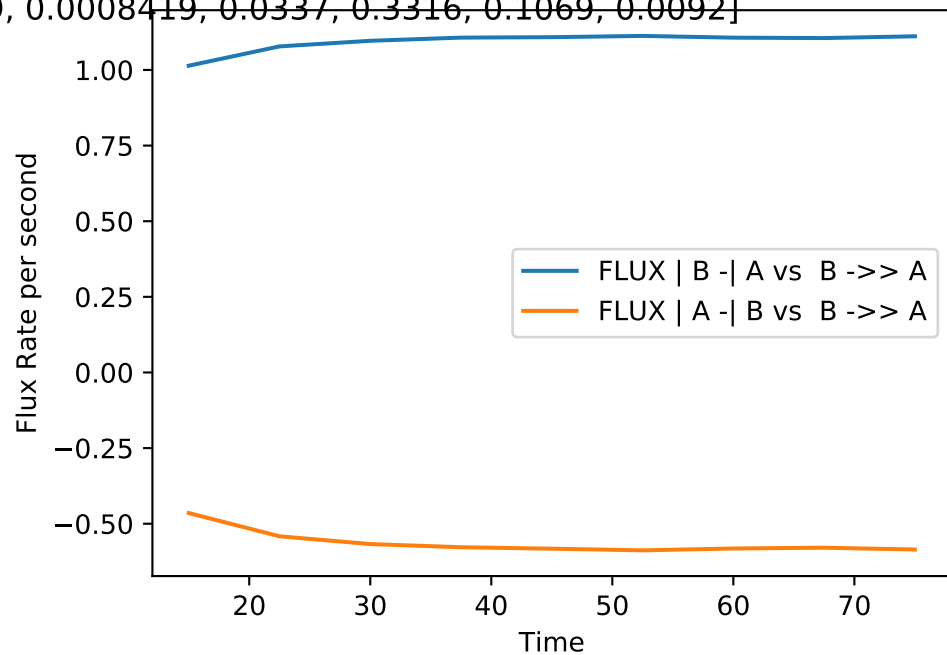
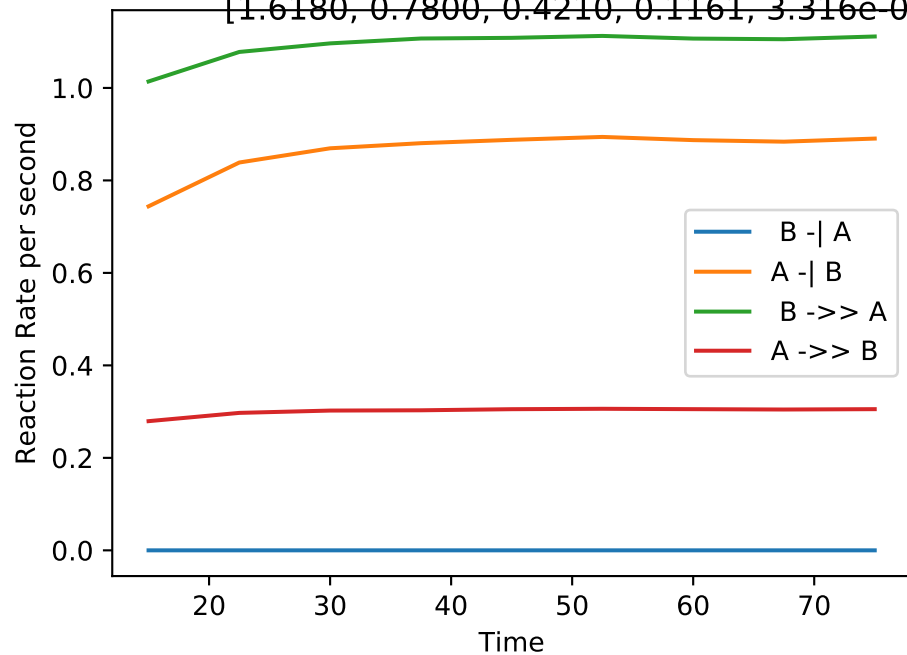
Double_up | MB-LLS Double_up(#344):

[1.7988, 2.0148, 0.3493, 0.2862, 8.921e-09, 2.319e-09, 0.0154, 0.2727, 0.2196, 0.0001]



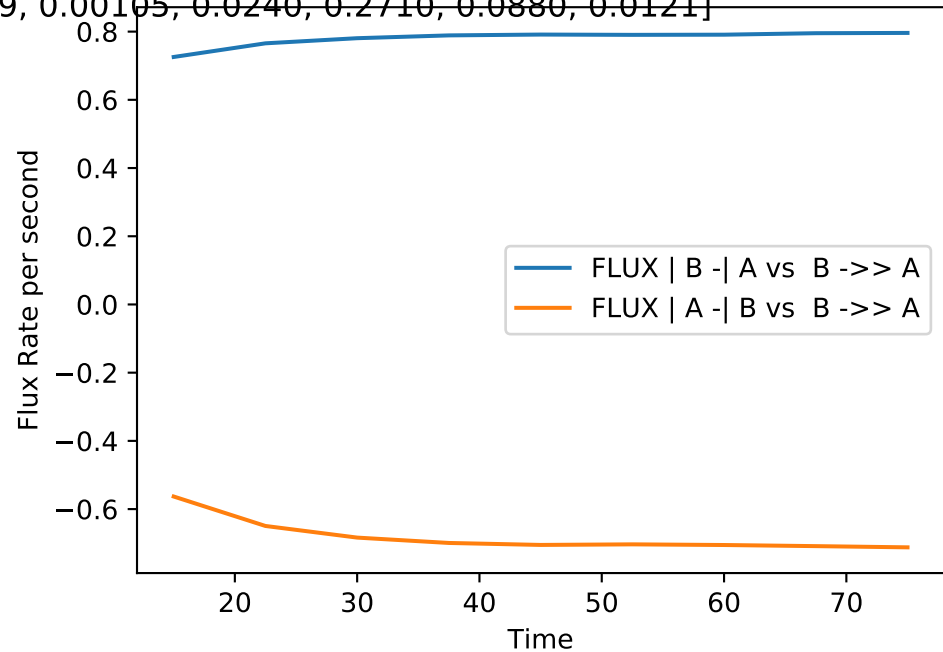
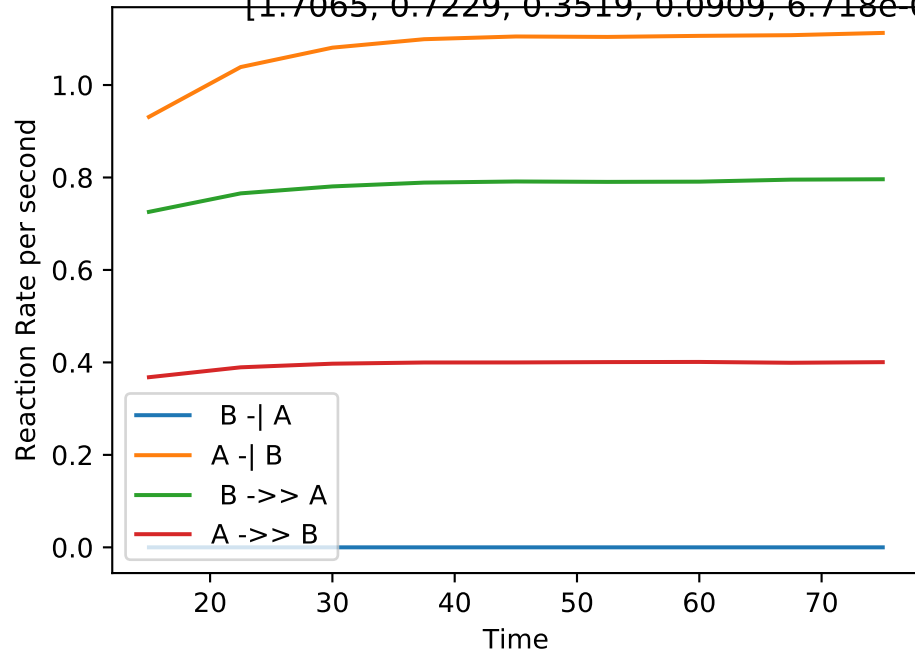
Double_up | MB-LLS Double_up(#345):

[1.6180, 0.7800, 0.4210, 0.1161, 3.316e-09, 0.0008419, 0.0337, 0.3316, 0.1069, 0.0092]



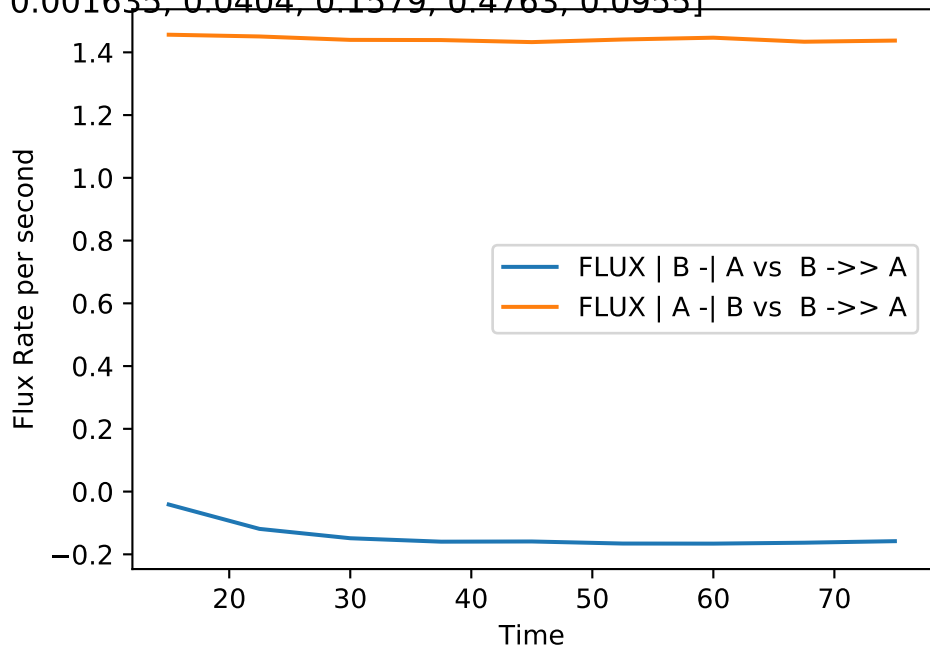
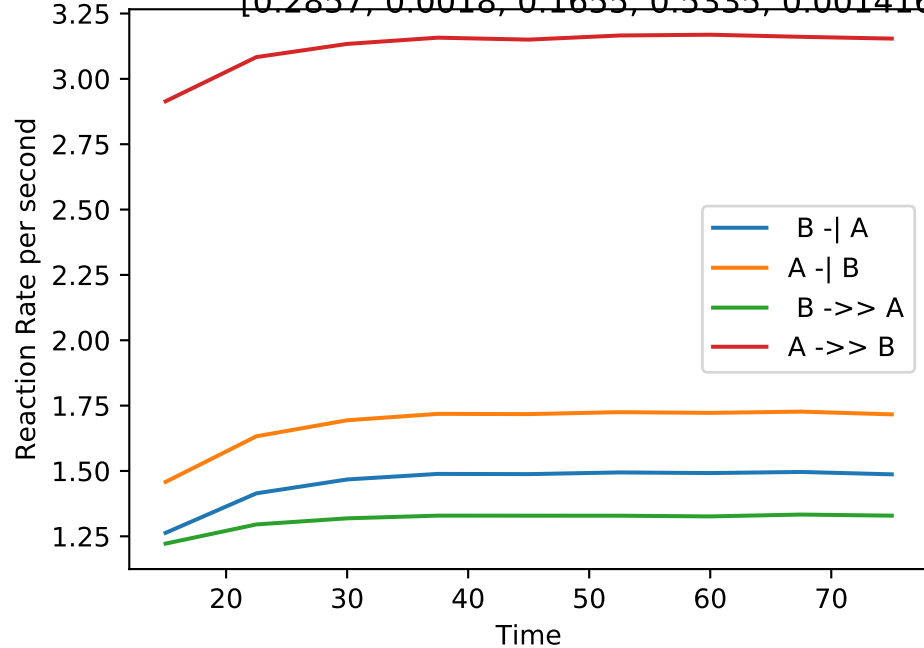
Double_up | MB-LLS Double_up(#346):

[1.7065, 0.7229, 0.3519, 0.0909, 6.718e-09, 0.00105, 0.0240, 0.2710, 0.0880, 0.0121]



Double_up | MB-LLS Double_up(#347):

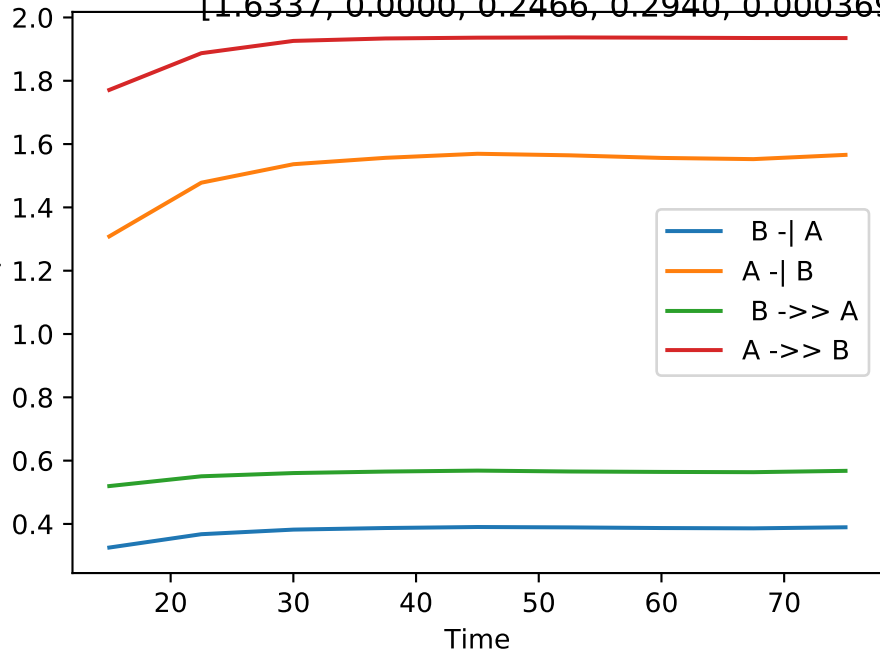
[0.2857, 0.0018, 0.1655, 0.5335, 0.001416, 0.001635, 0.0404, 0.1579, 0.4763, 0.0955]



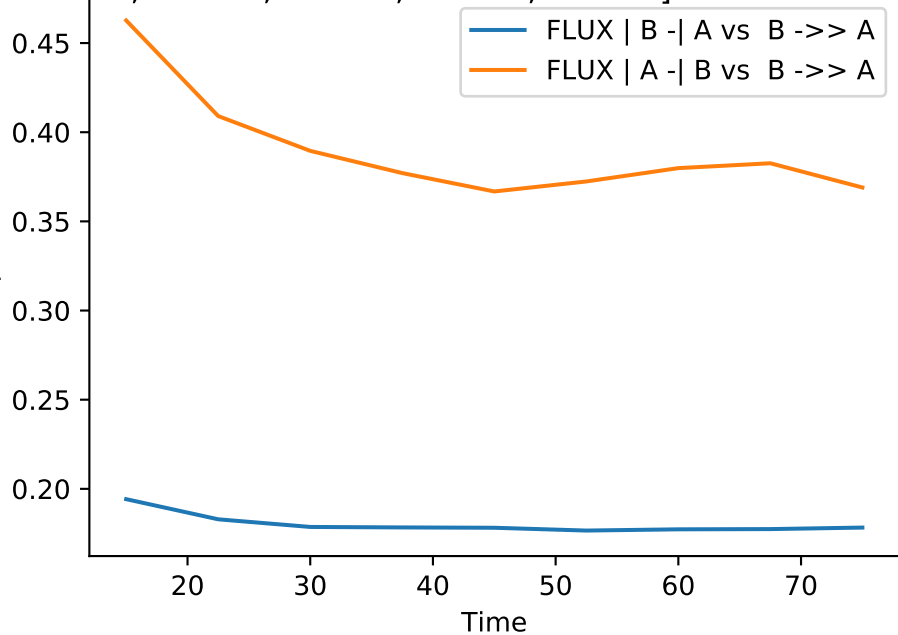
Double_up | MB-LLS Double_up(#348):

[1.6337, 0.0000, 0.2466, 0.2940, 0.000369, 0.001484, 0.0172, 0.1886, 0.2745, 0.0587]

Reaction Rate per second

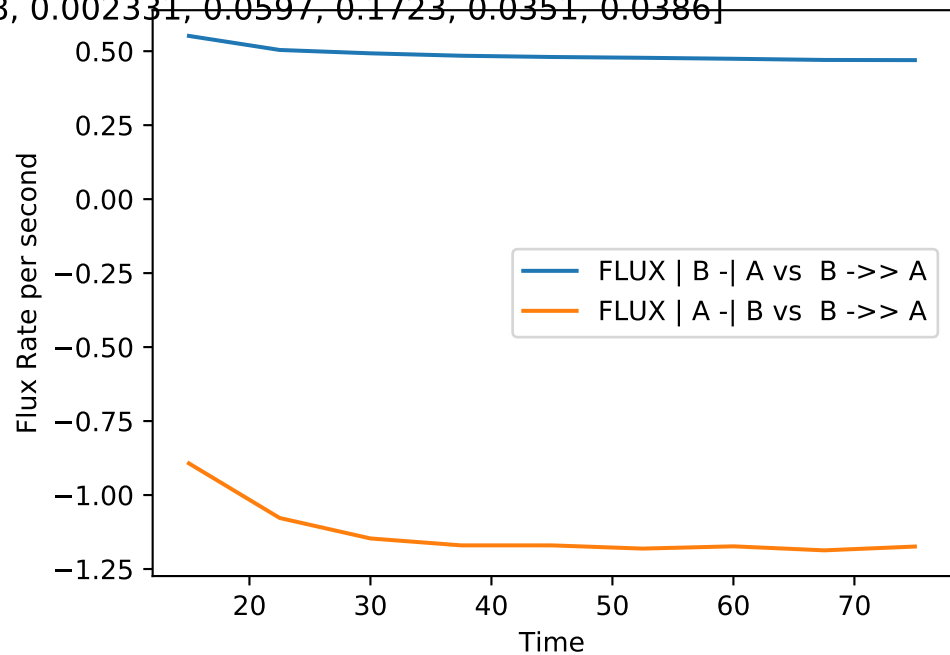
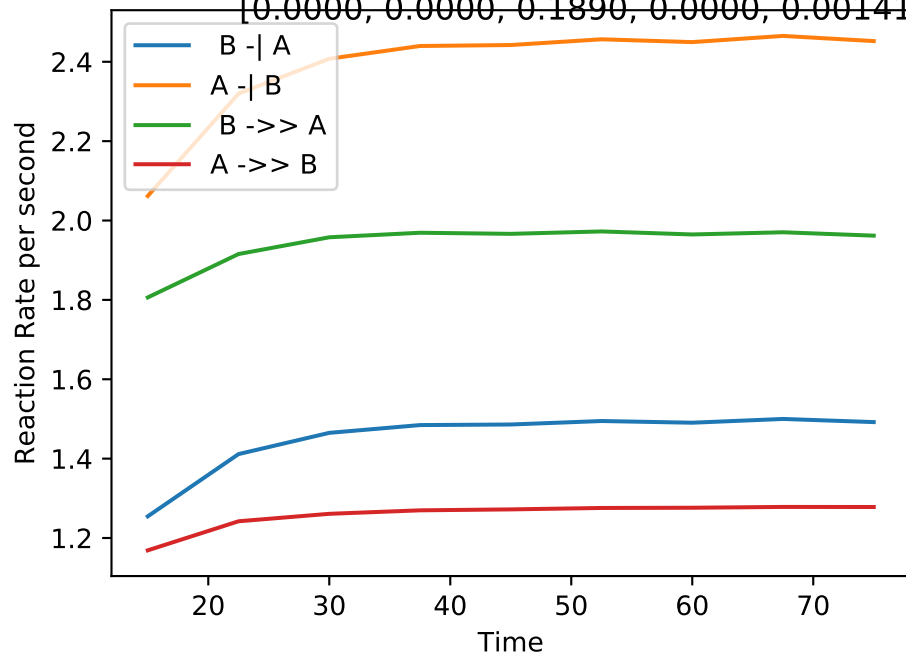


Flux Rate per second



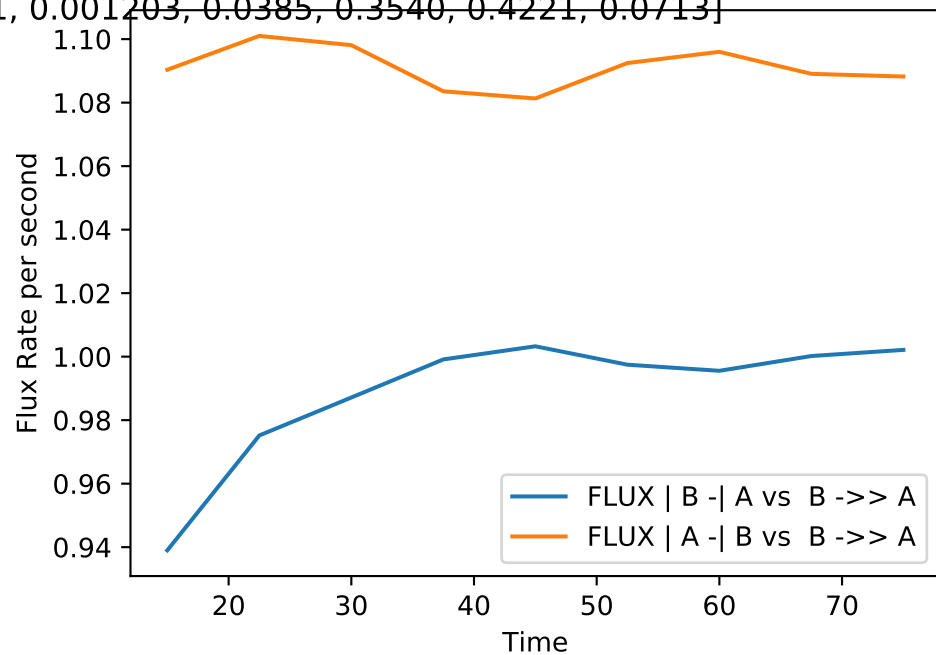
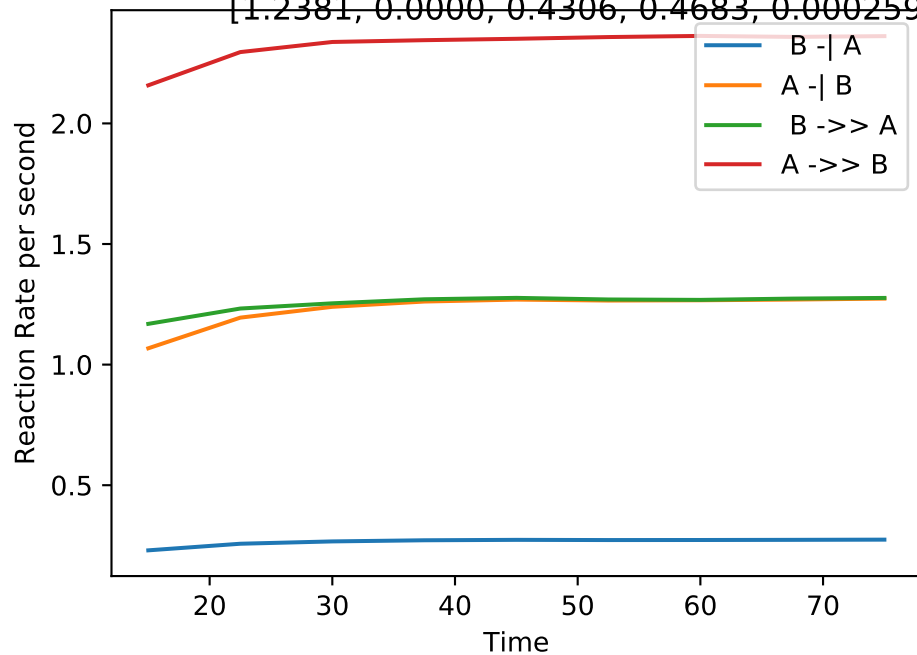
Double_up | MB-LLS Double_up(#349):

[0.0000, 0.0000, 0.1890, 0.0000, 0.001418, 0.002331, 0.0597, 0.1723, 0.0351, 0.0386]



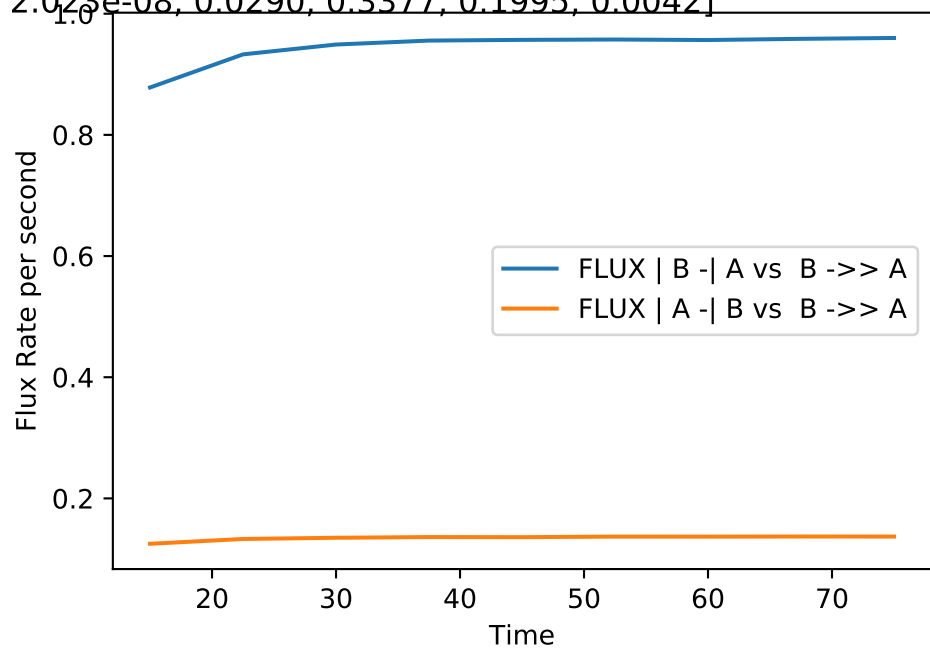
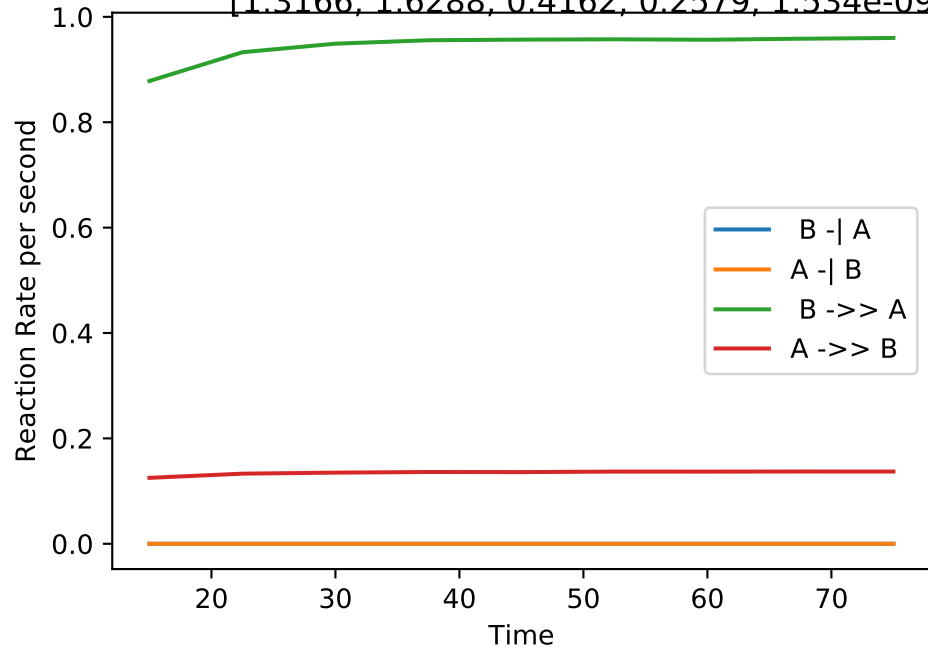
Double_up | MB-LLS Double_up(#350):

[1.2381, 0.0000, 0.4306, 0.4683, 0.0002591, 0.001203, 0.0385, 0.3540, 0.4221, 0.0713]



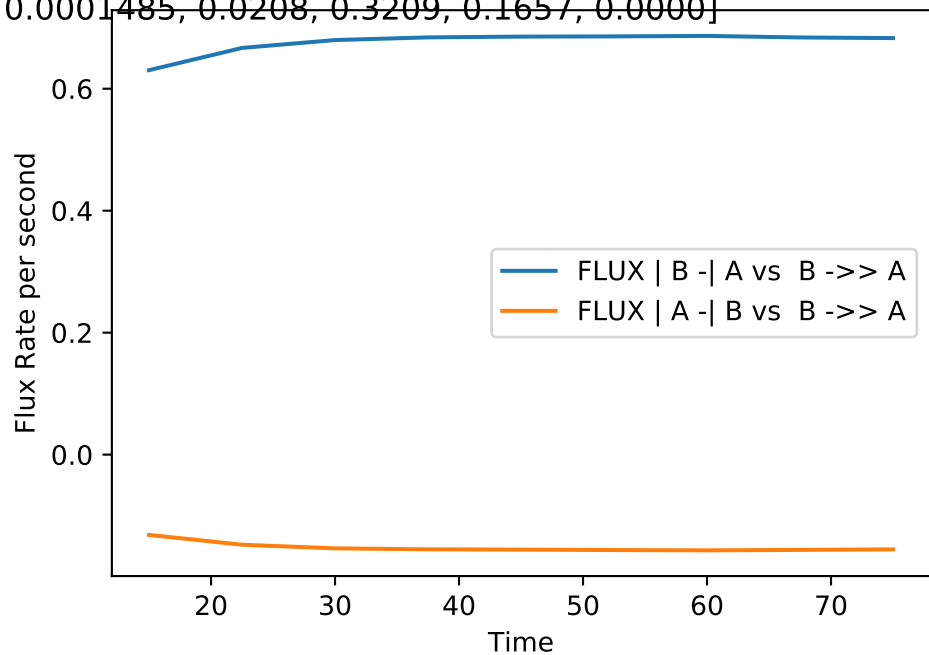
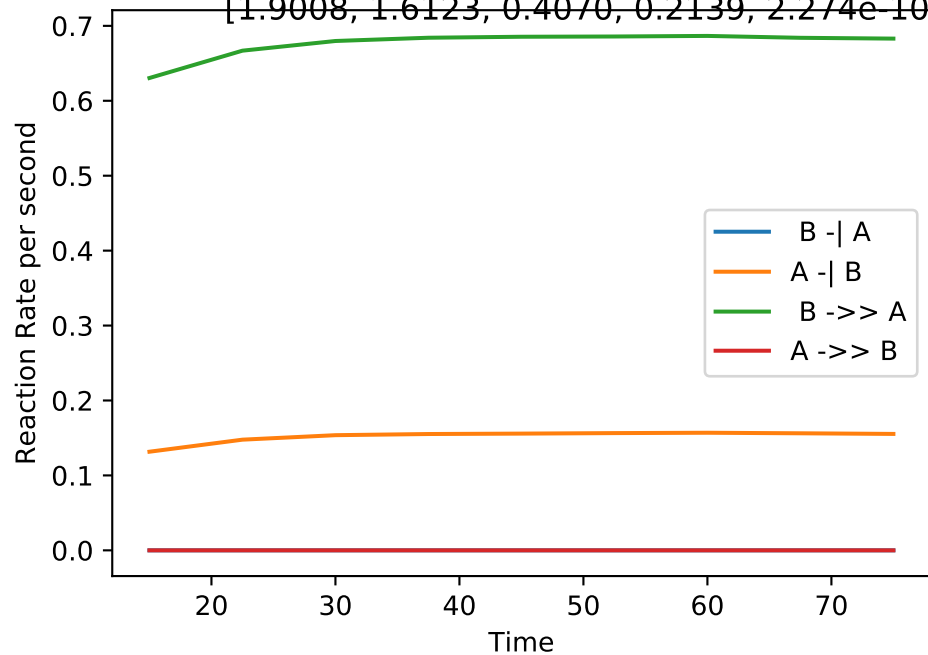
Double_up | MB-LLS Double_up(#351):

[1.3166, 1.6288, 0.4162, 0.2579, 1.534e-09, 2.023e-08, 0.0290, 0.3377, 0.1995, 0.0042]



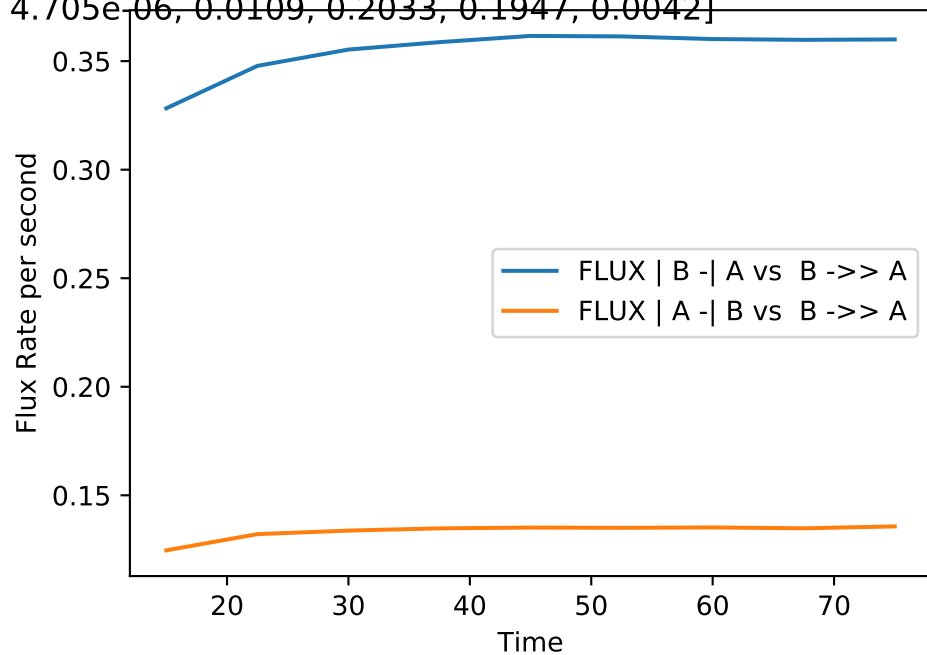
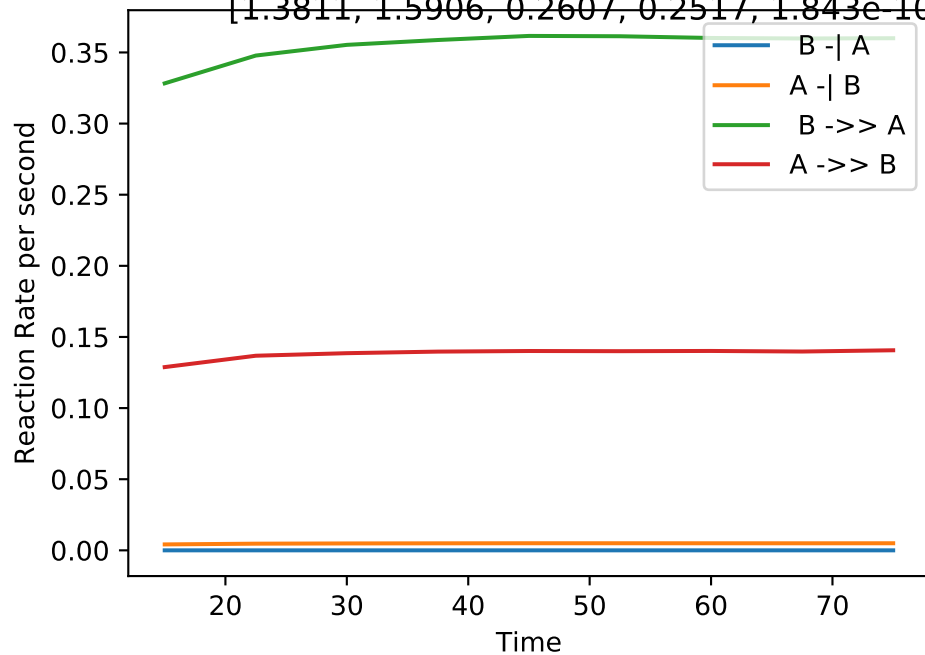
Double_up | MB-LLS Double_up(#352):

[1.9008, 1.6123, 0.4070, 0.2139, 2.274e-10, 0.0001485, 0.0208, 0.3209, 0.1657, 0.0000]



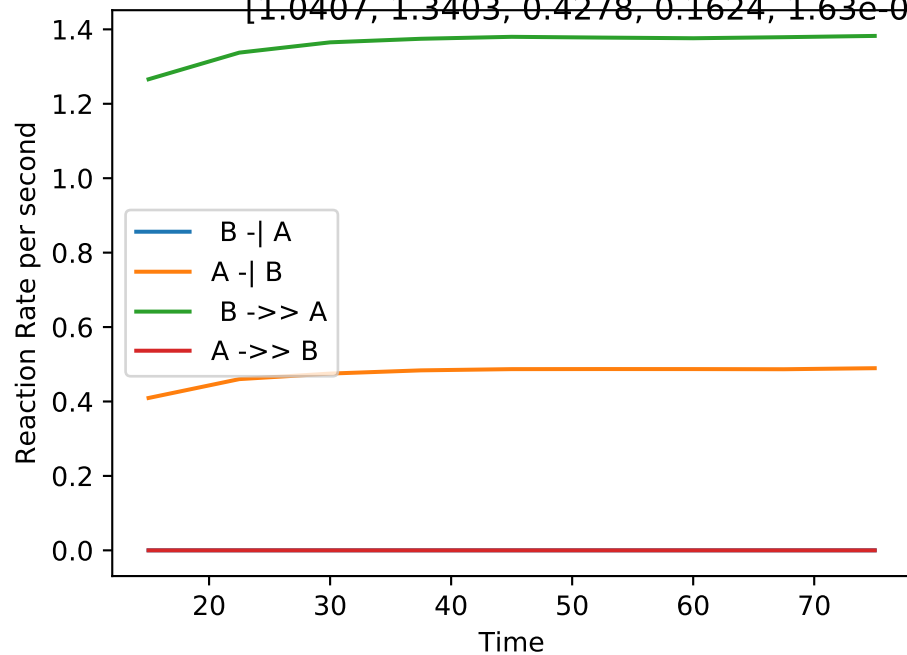
Double_up | MB-LLS Double_up(#353):

[1.3811, 1.5906, 0.2607, 0.2517, 1.843e-10, 4.705e-06, 0.0109, 0.2033, 0.1947, 0.0042]

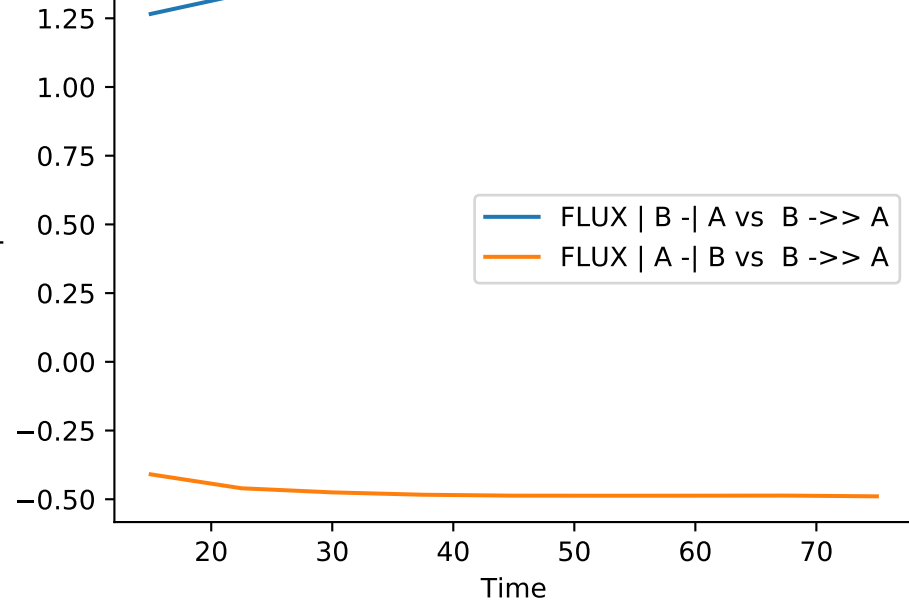


Double_up | MB-LLS Double_up(#354):

[1.0407, 1.3403, 0.4278, 0.1624, 1.63e-08, 0.000461, 0.0417, 0.3461, 0.1328, 0.0000]

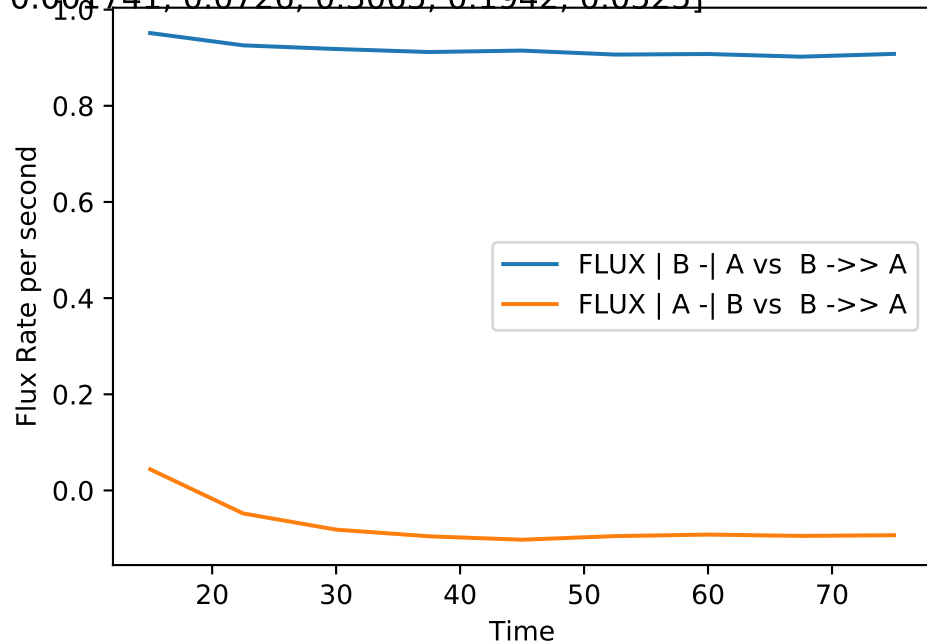
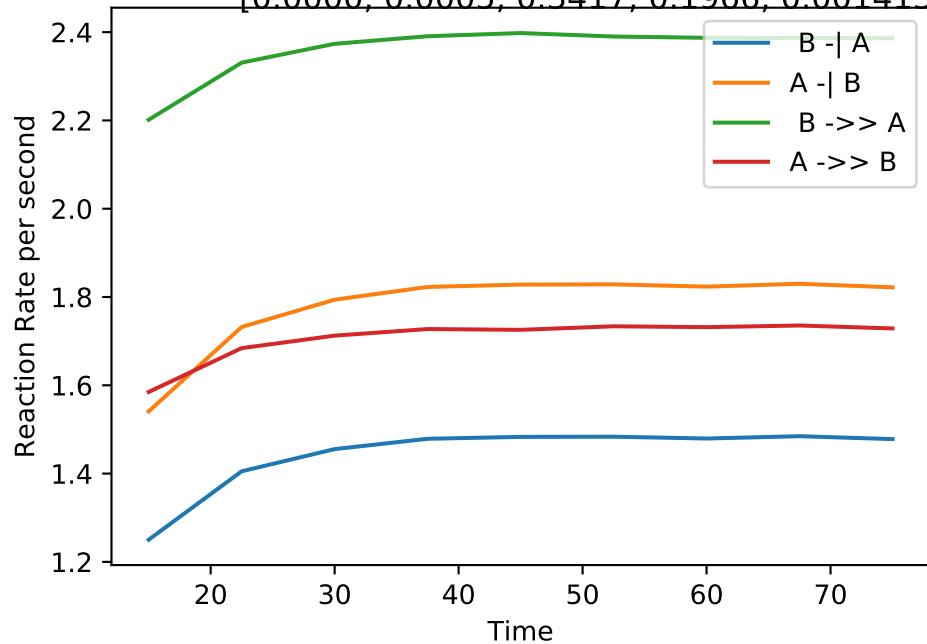


Flux Rate per second



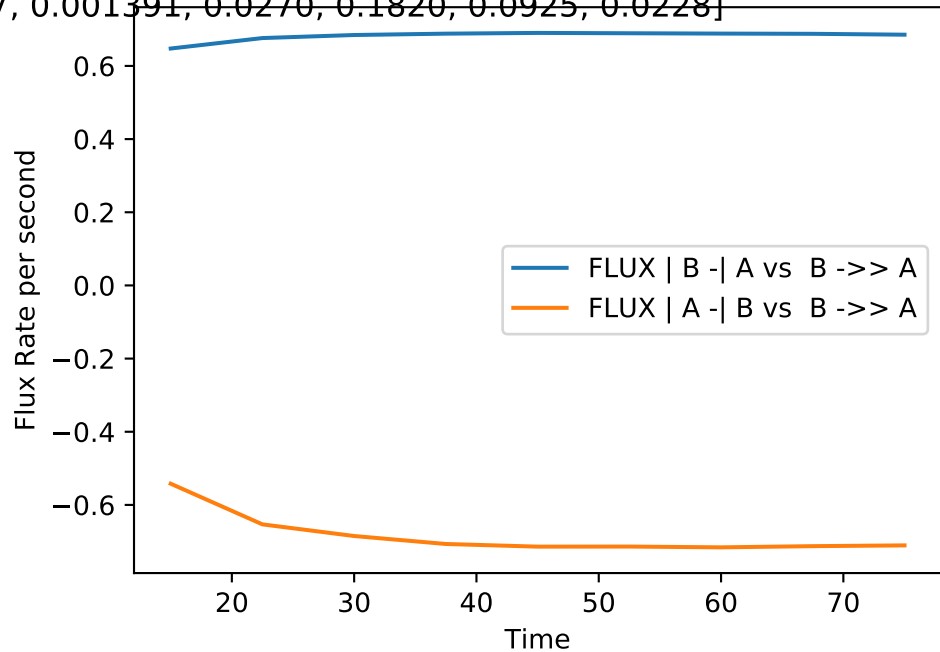
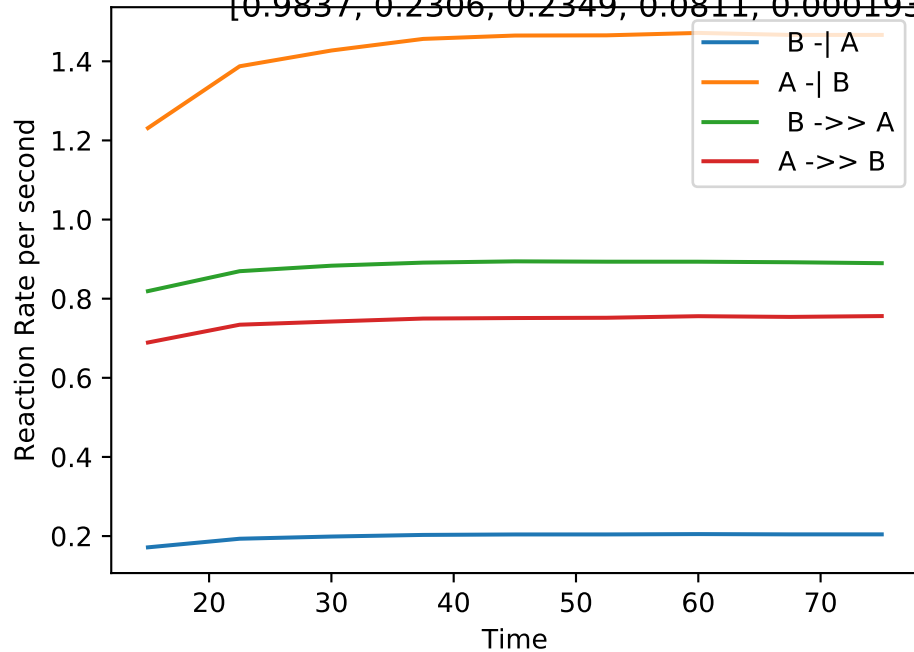
Double_up | MB-LLS Double_up(#355):

[0.0000, 0.0005, 0.3417, 0.1966, 0.001413, 0.001741, 0.0726, 0.3065, 0.1942, 0.0525]



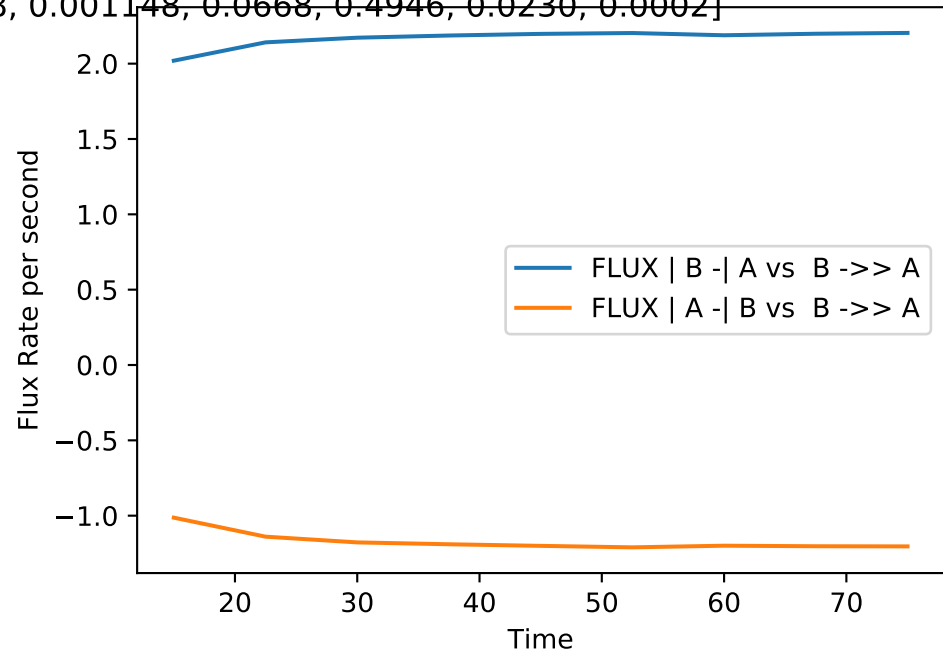
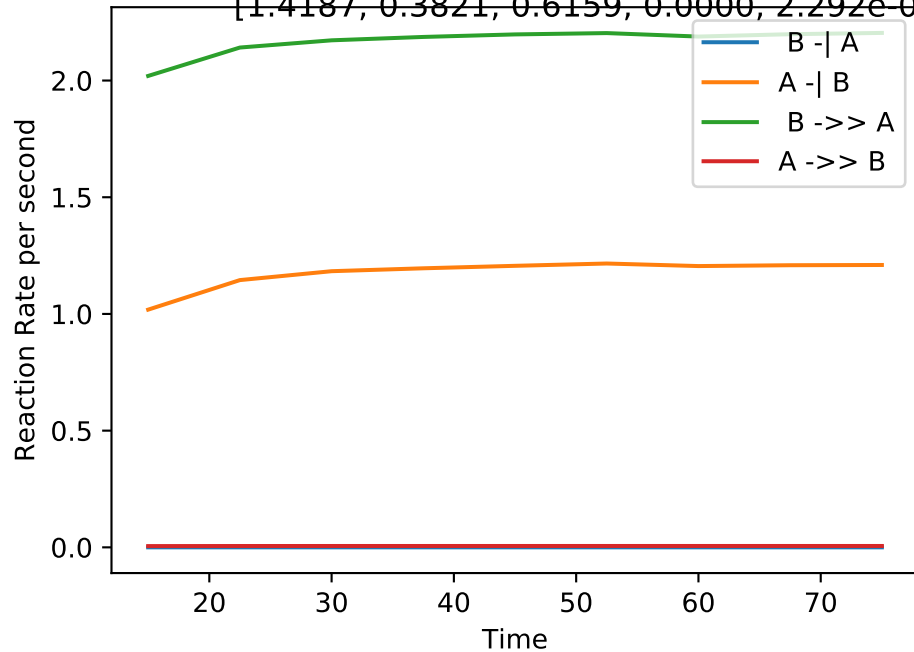
Double_up | MB-LLS Double_up(#356):

[0.9837, 0.2306, 0.2349, 0.0811, 0.0001937, 0.001391, 0.0270, 0.1820, 0.0925, 0.0228]



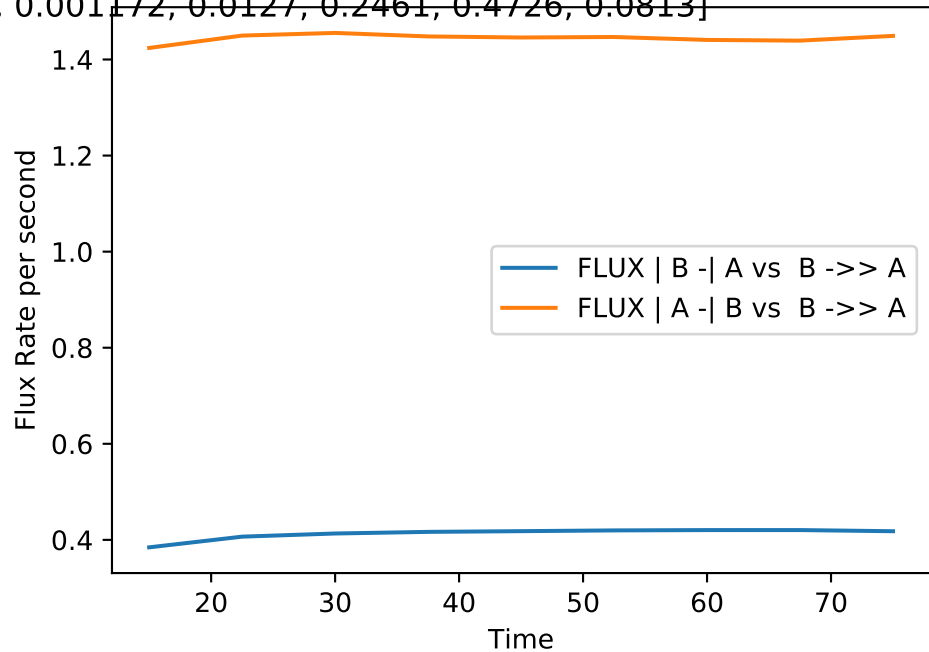
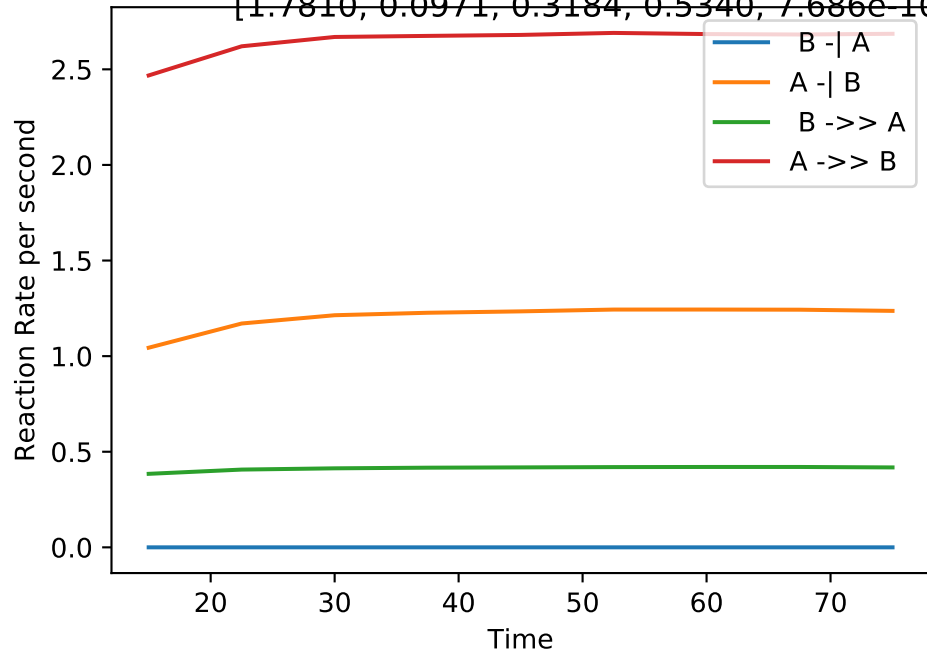
Double_up | MB-LLS Double_up(#357):

[1.4187, 0.3821, 0.6159, 0.0000, 2.292e-08, 0.001148, 0.0668, 0.4946, 0.0230, 0.0002]



Double_up | MB-LLS Double_up(#358):

[1.7810, 0.0971, 0.3184, 0.5340, 7.686e-10, 0.001172, 0.0127, 0.2461, 0.4726, 0.0813]



Double_up | MB-LLS Double_up(#359):

[2.0094, 1.4896, 0.2824, 0.2962, 3.288e-08, 1.985e-08, 0.0000, 0.2161, 0.2325, 0.0130]

Reaction Rate per second

0.4
0.3
0.2
0.1
0.0

20

30

40

50

60

70

Time

B -| A
A -| B
B ->> A
A ->> B

Flux Rate per second

0.4
0.3
0.2
0.1
0.0

20

30

40

50

60

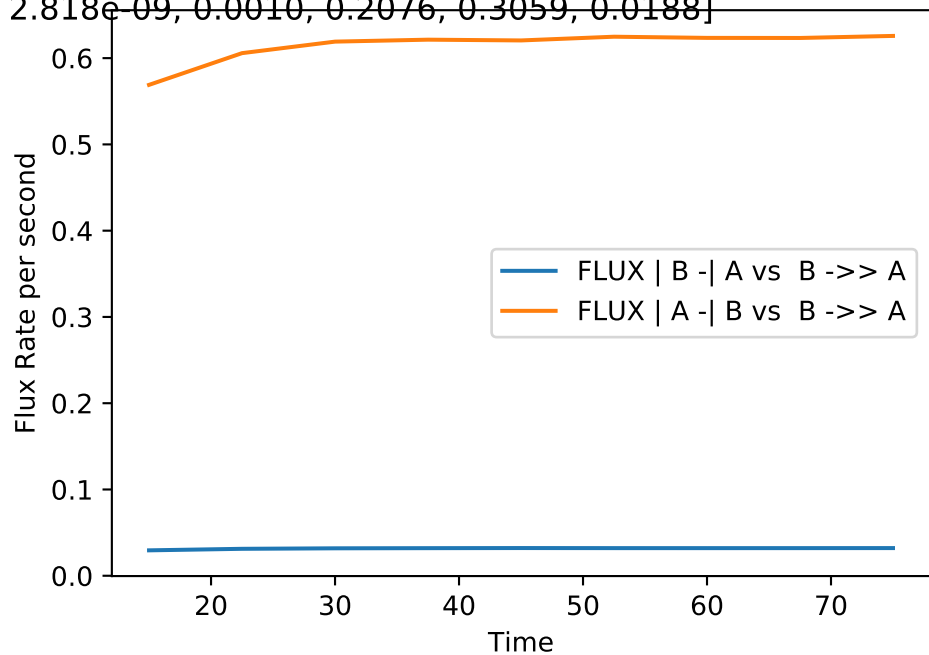
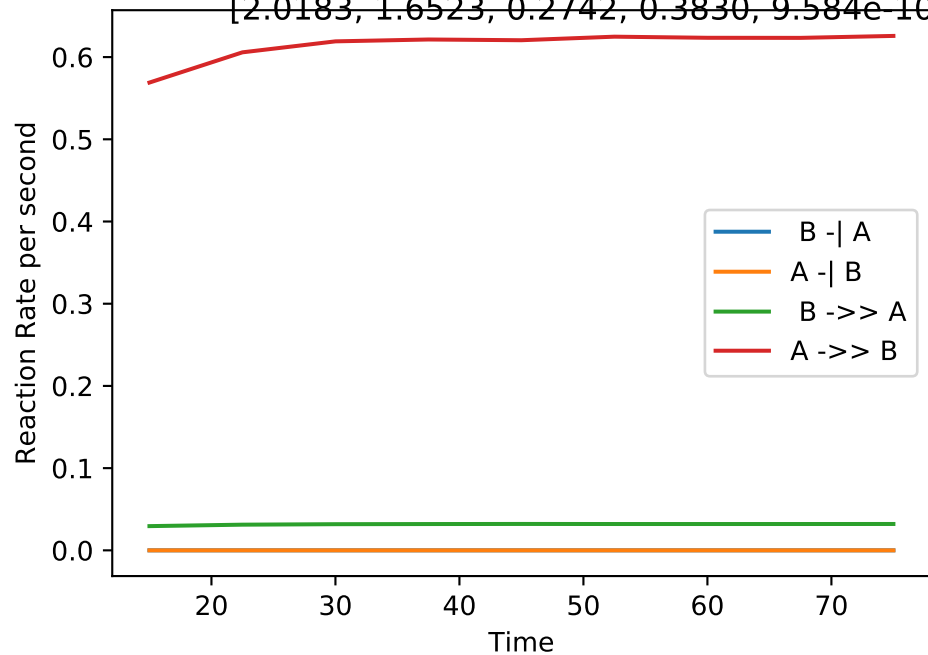
70

Time

FLUX | B -| A vs B ->> A
FLUX | A -| B vs B ->> A

Double_up | MB-LLS Double_up(#360):

[2.0183, 1.6523, 0.2742, 0.3830, 9.584e-10, 2.818e-09, 0.0010, 0.2076, 0.3059, 0.0188]

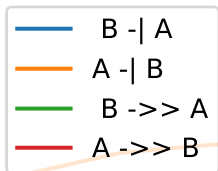


Double_up | MB-LLS Double_up(#361):

[1.8066, 1.3141, 0.3185, 0.1682, 1.226e-09, 0.0001631, 0.0129, 0.2455, 0.1307, 0.0000]

Reaction Rate per second

0.4
0.3
0.2
0.1
0.0



20

30

40

50

60

70

Time

Flux Rate per second

0.4
0.3
0.2
0.1
0.0
-0.1
-0.2



20

30

40

50

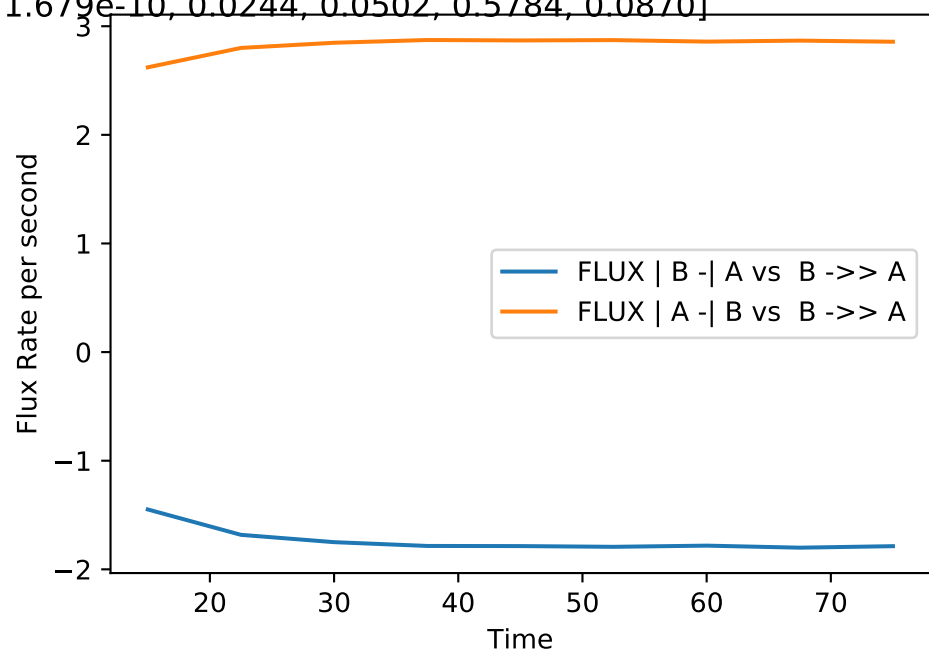
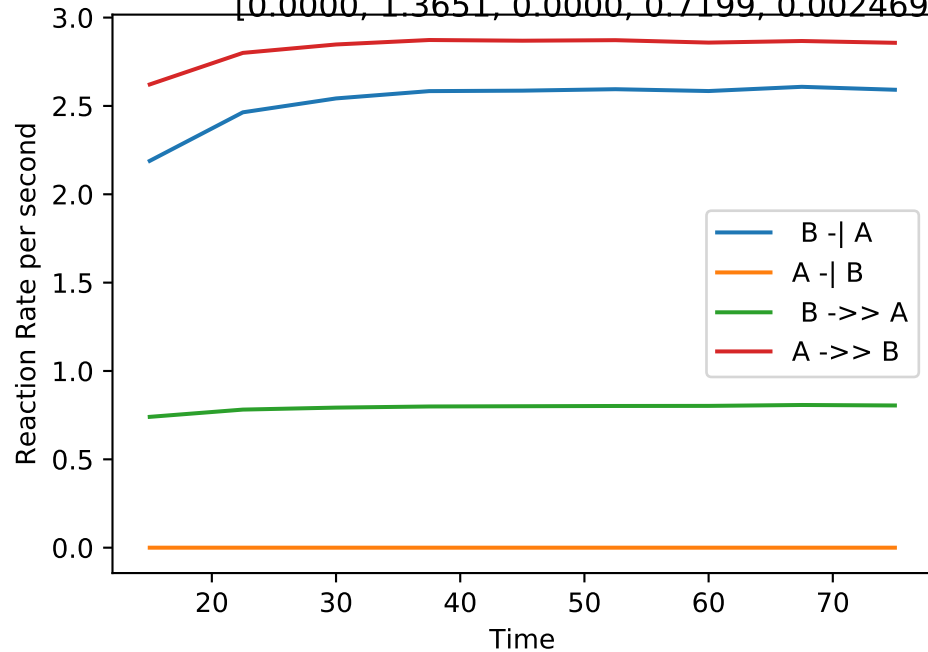
60

70

Time

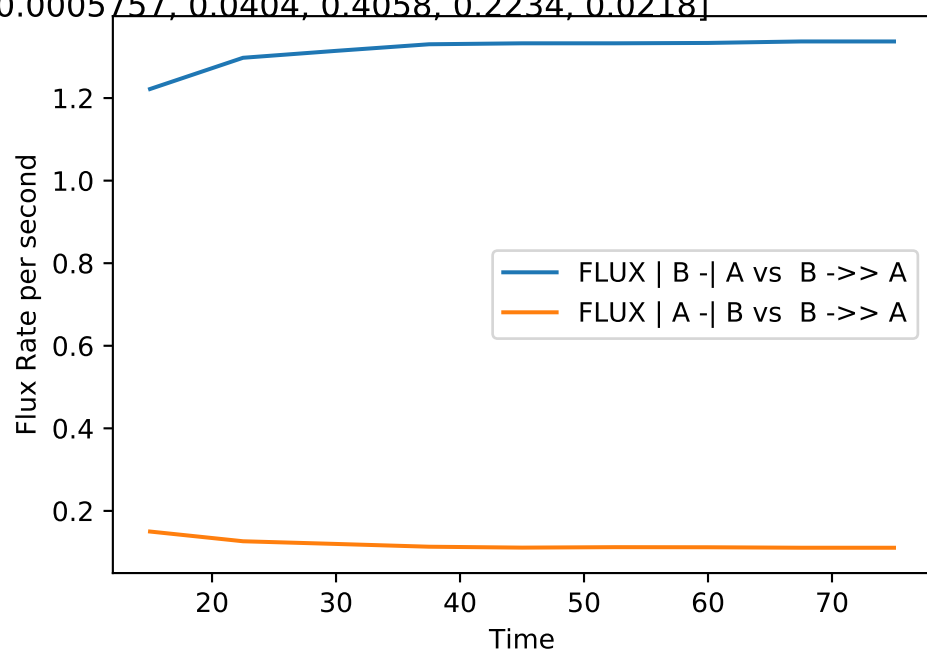
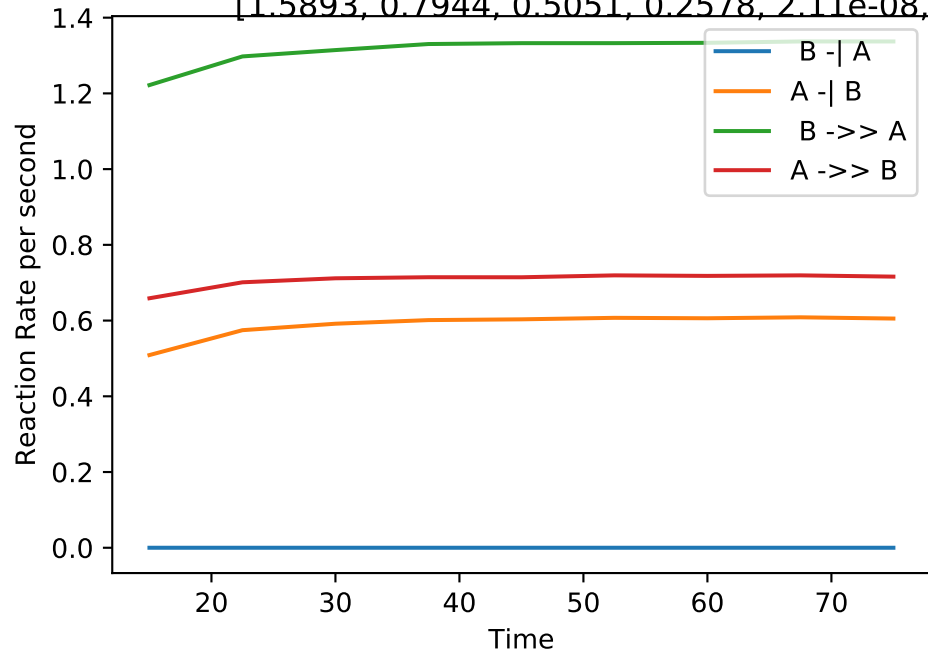
Double_up | MB-LLS Double_up(#362):

[0.0000, 1.3651, 0.0000, 0.7199, 0.002469, 1.679e-10, 0.0244, 0.0502, 0.5784, 0.0870]



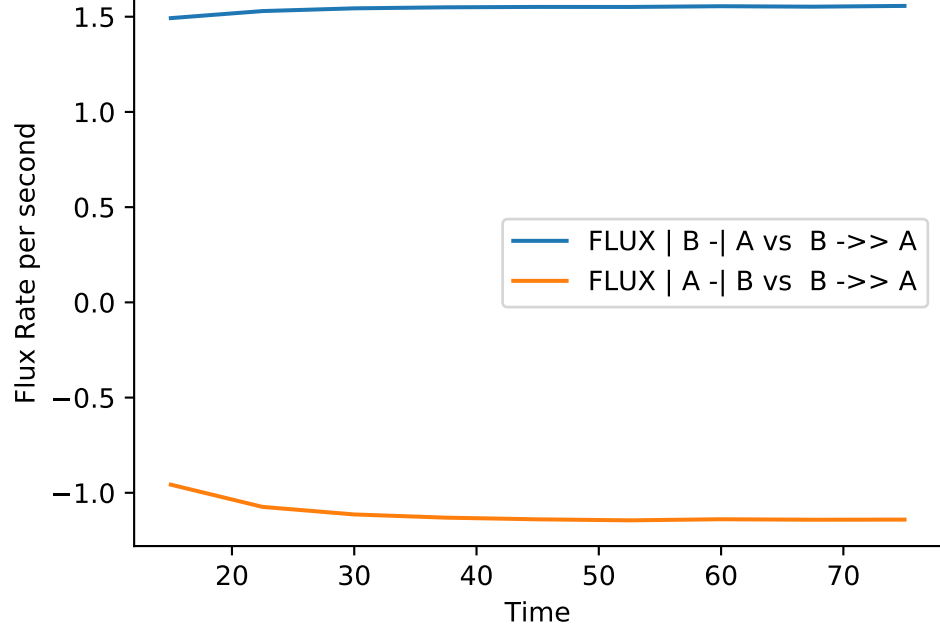
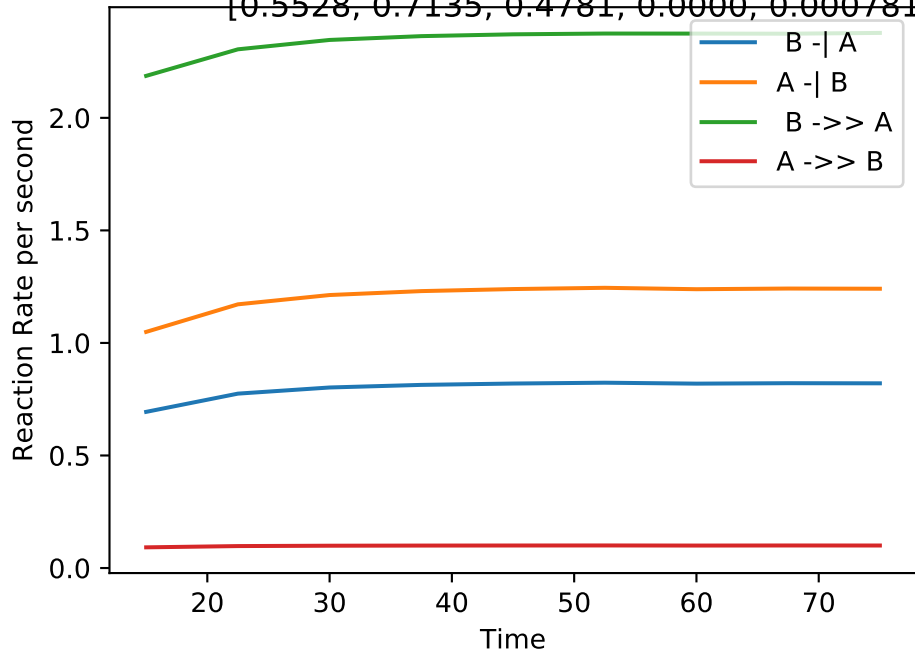
Double_up | MB-LLS Double_up(#363):

[1.5893, 0.7944, 0.5051, 0.2578, 2.11e-08, 0.0005757, 0.0404, 0.4058, 0.2234, 0.0218]



Double_up | MB-LLS Double_up(#364):

[0.5528, 0.7135, 0.4781, 0.0000, 0.0007811, 0.001181, 0.0719, 0.4041, 0.0128, 0.0030]

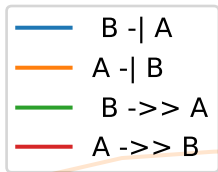


Double_up | MB-LLS Double_up(#365):

[1.4257, 1.3210, 0.4091, 0.1527, 2.178e-10, 0.0003763, 0.0310, 0.3270, 0.1214, 0.0000]

Reaction Rate per second

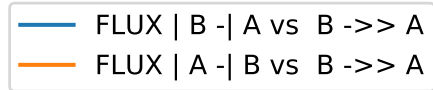
1.0
0.8
0.6
0.4
0.2
0.0



Time

Flux Rate per second

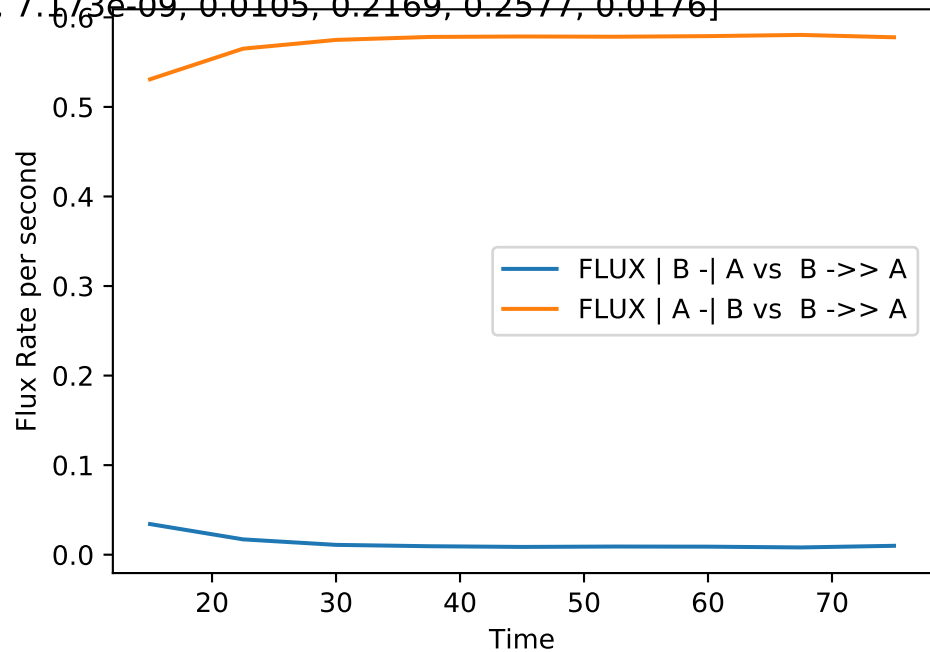
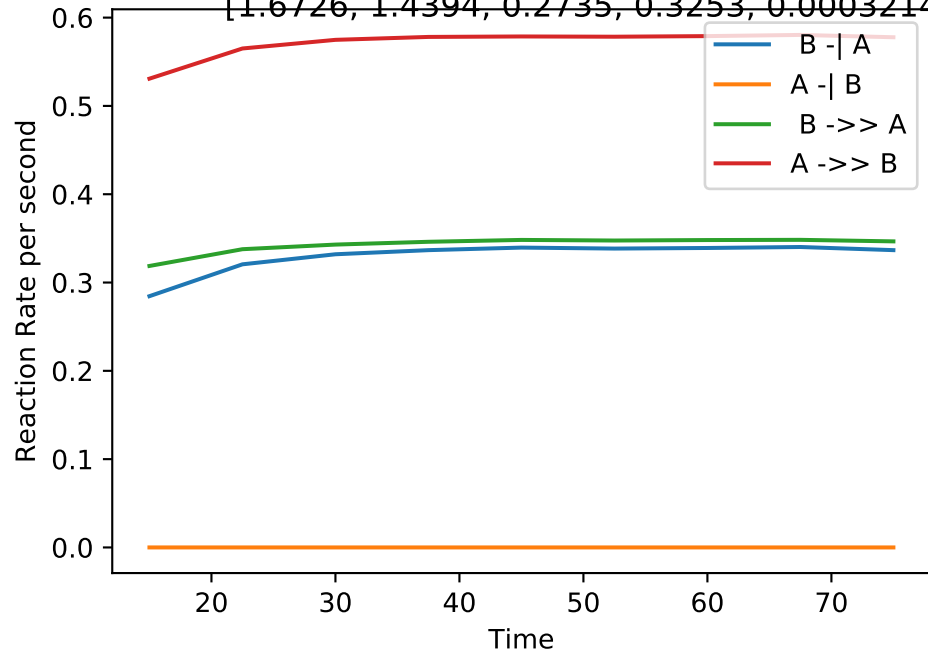
1.0
0.8
0.6
0.4
0.2
0.0
-0.2
-0.4



Time

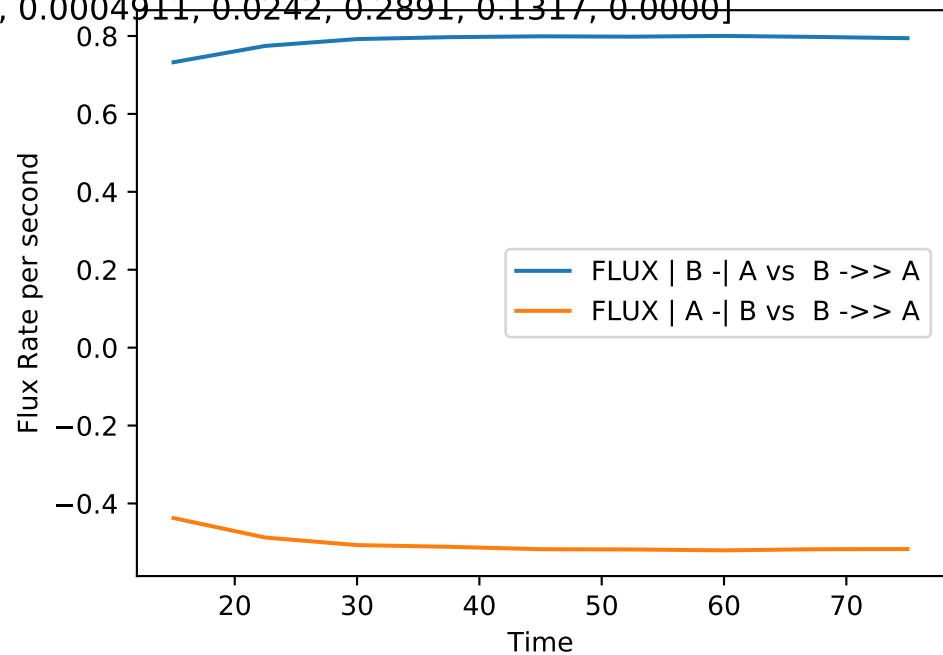
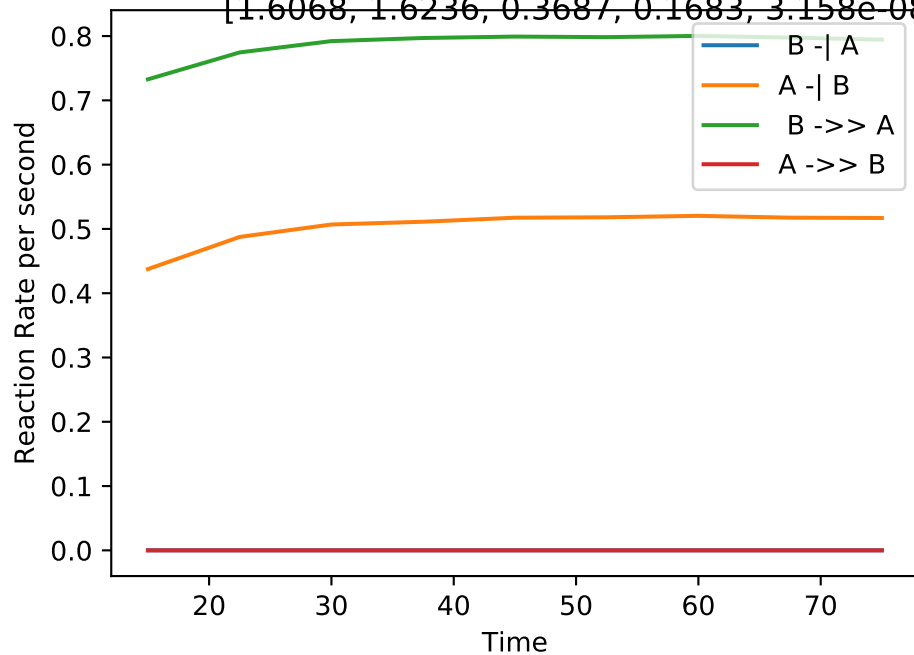
Double_up | MB-LLS Double_up(#366):

[1.6726, 1.4394, 0.2735, 0.3253, 0.0003214, 7.173e-09, 0.0105, 0.2169, 0.2577, 0.0176]



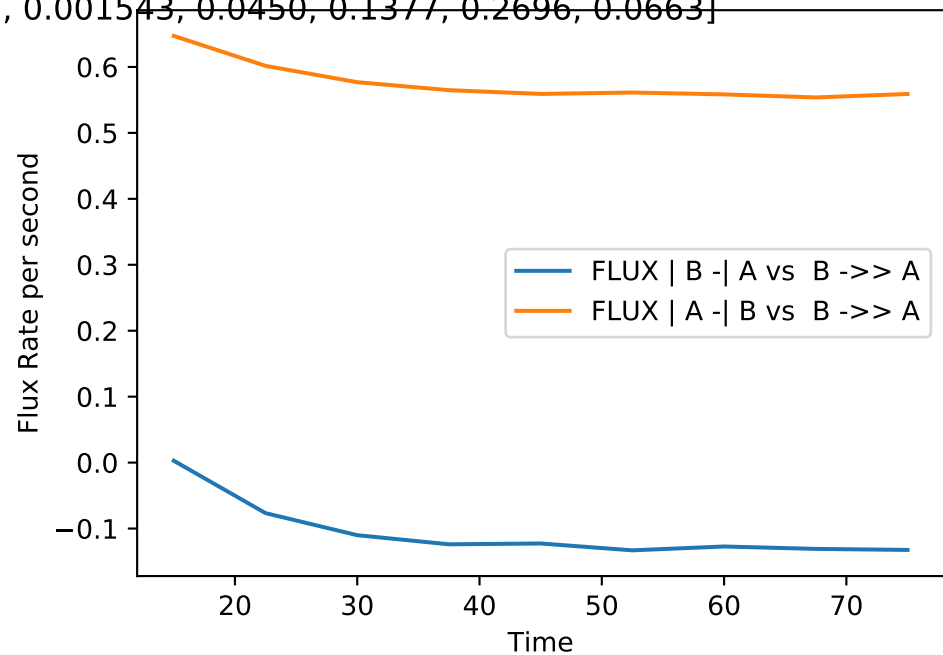
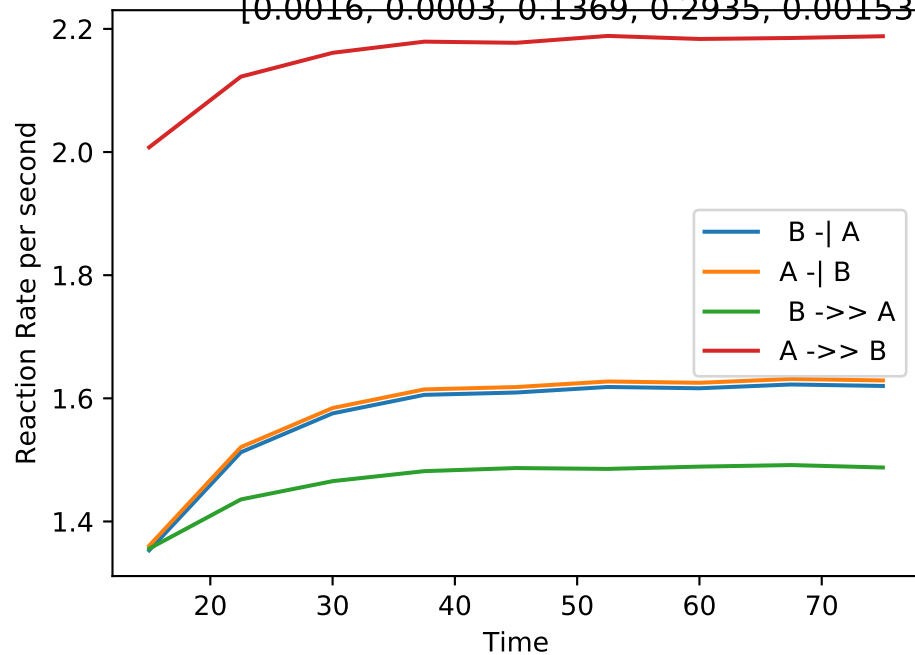
Double_up | MB-LLS Double_up(#367):

[1.6068, 1.6236, 0.3687, 0.1683, 3.158e-08, 0.0004911, 0.0242, 0.2891, 0.1317, 0.0000]



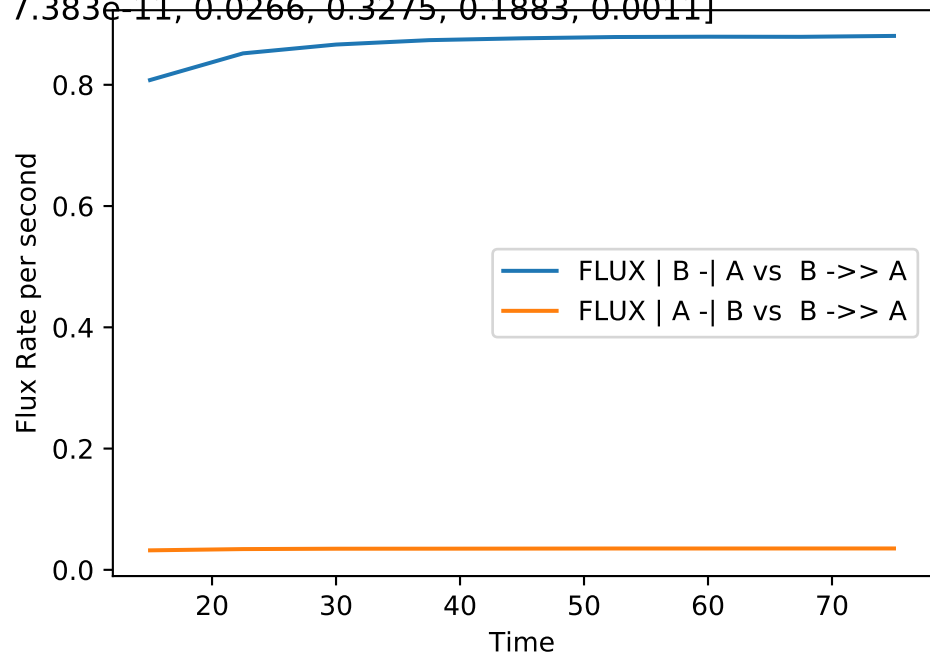
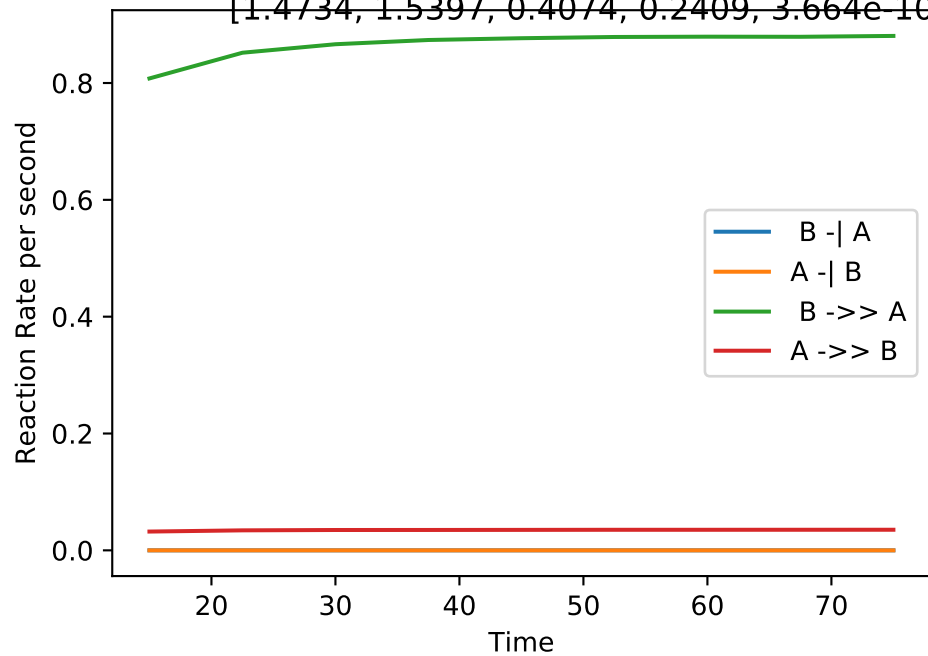
Double_up | MB-LLS Double_up(#368):

[0.0016, 0.0003, 0.1369, 0.2935, 0.001535, 0.001543, 0.0450, 0.1377, 0.2696, 0.0663]



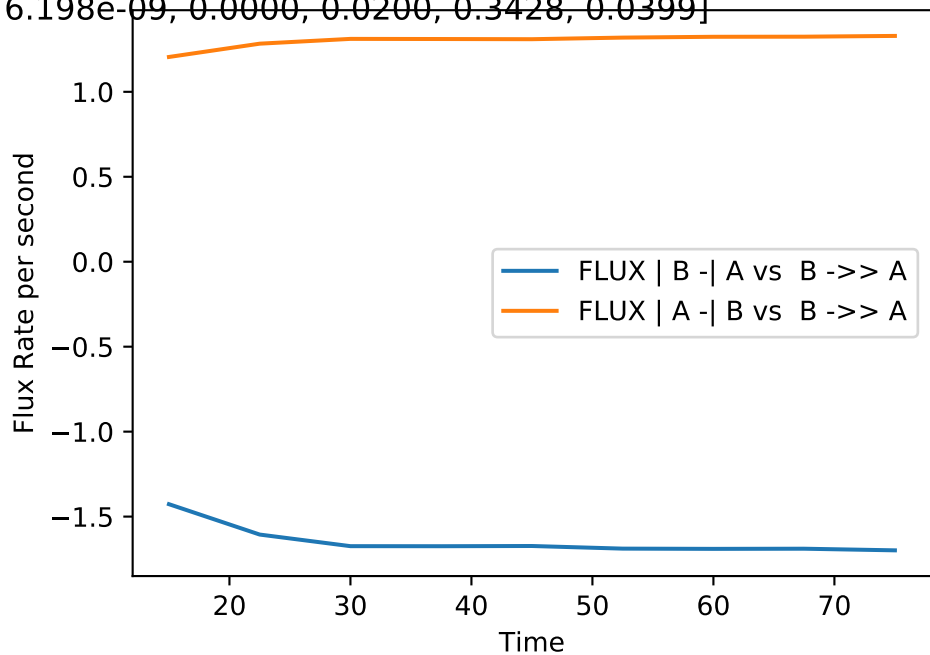
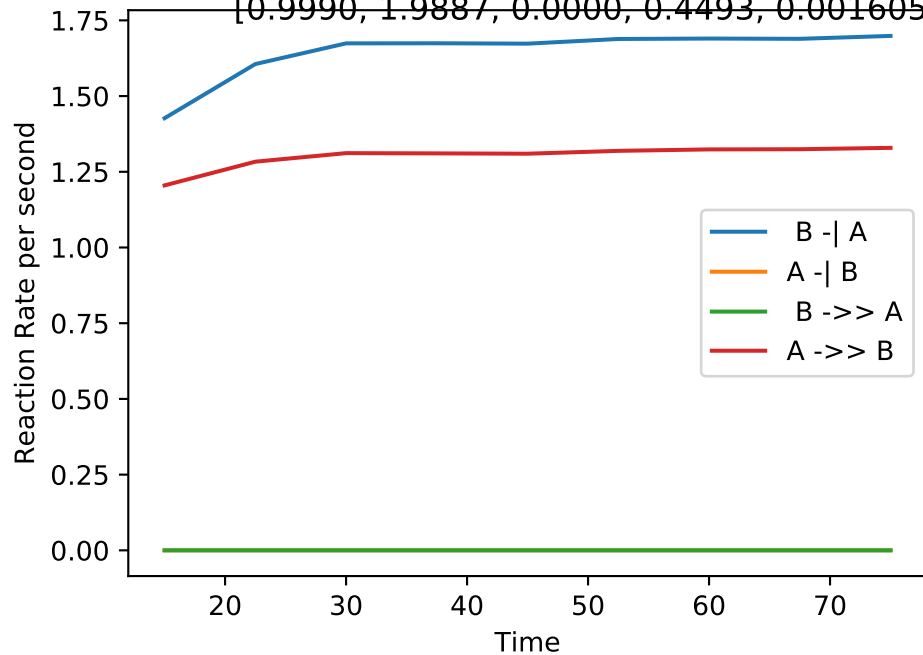
Double_up | MB-LLS Double_up(#369):

[1.4734, 1.5397, 0.4074, 0.2409, 3.664e-10, 7.383e-11, 0.0266, 0.3275, 0.1883, 0.0011]



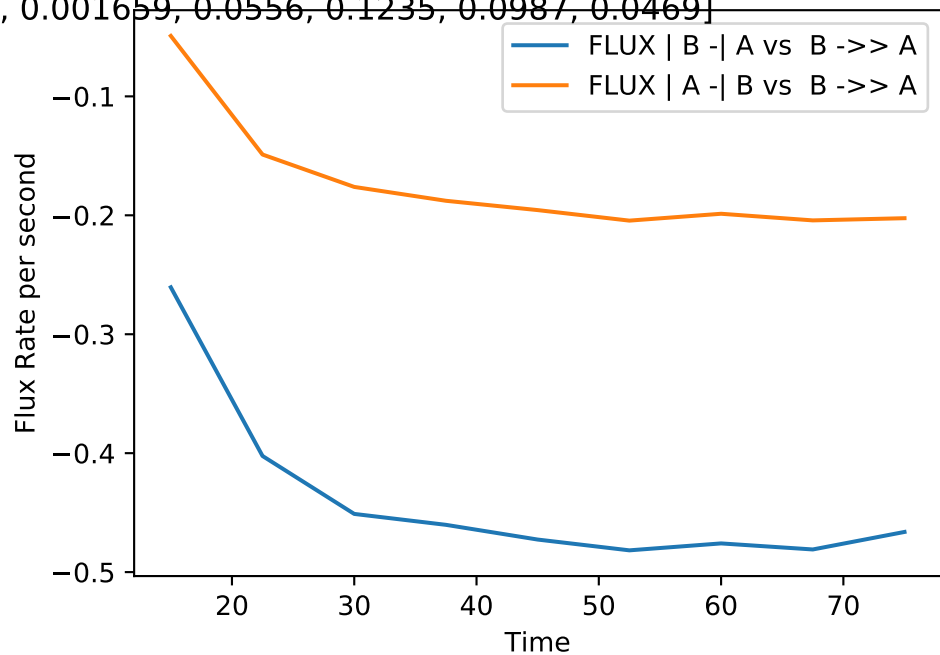
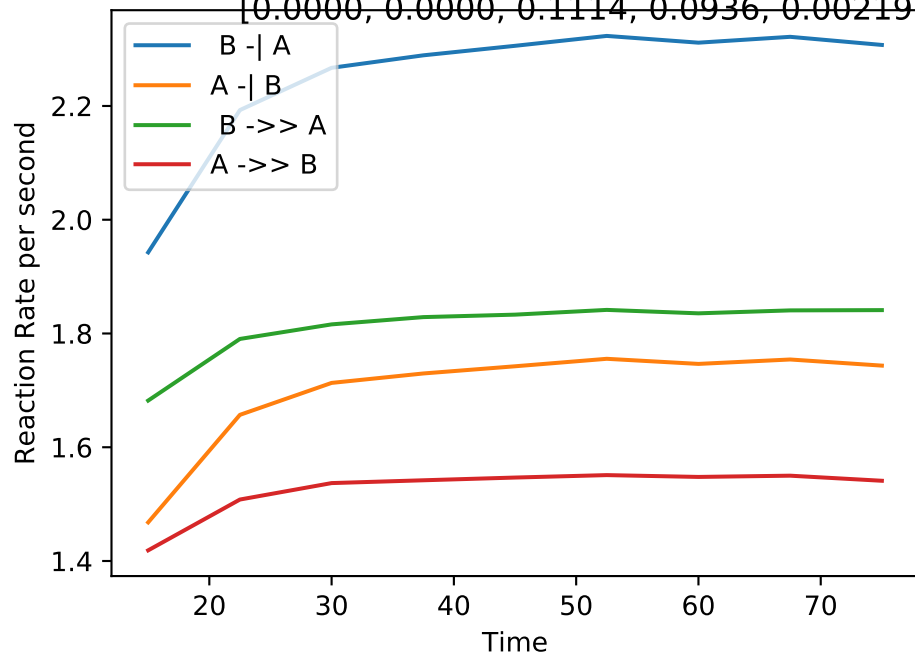
Double_up | MB-LLS Double_up(#370):

[0.9990, 1.9887, 0.0000, 0.4493, 0.001605, 6.198e-09, 0.0000, 0.0200, 0.3428, 0.0399]



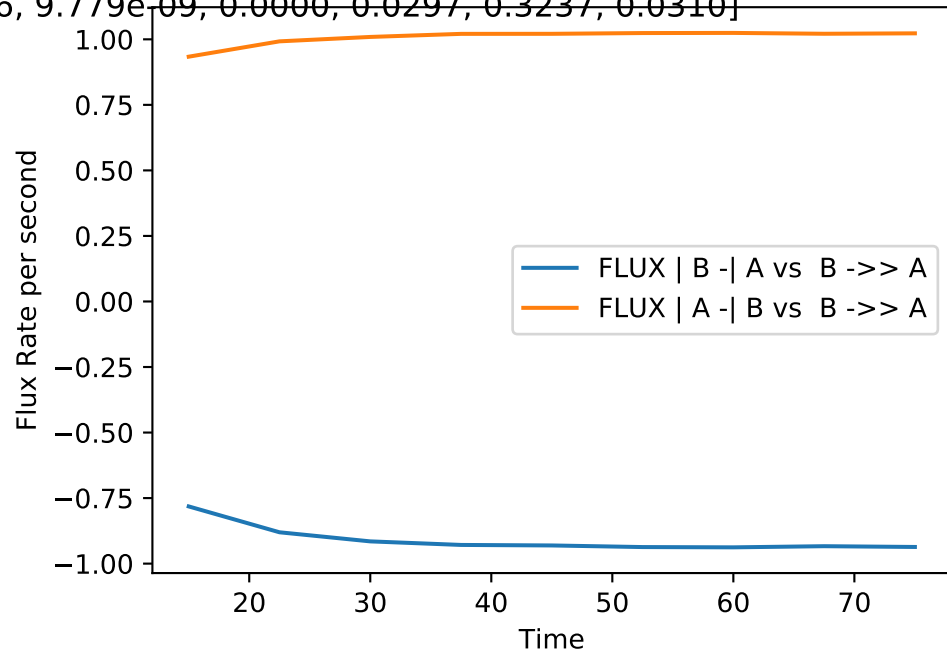
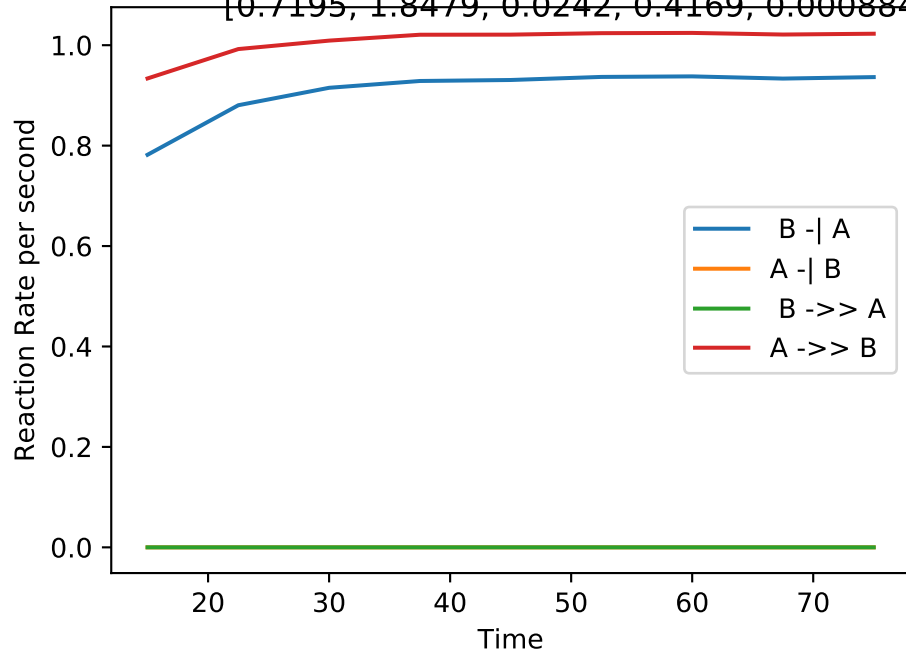
Double_up | MB-LLS Double_up(#371):

[0.0000, 0.0000, 0.1114, 0.0936, 0.002196, 0.001659, 0.0556, 0.1235, 0.0987, 0.0469]



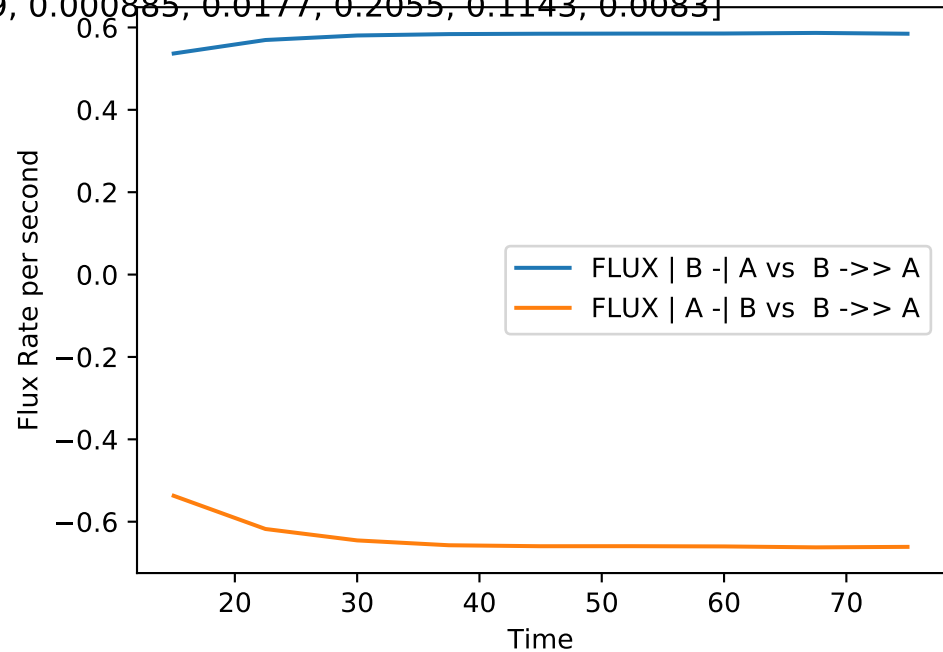
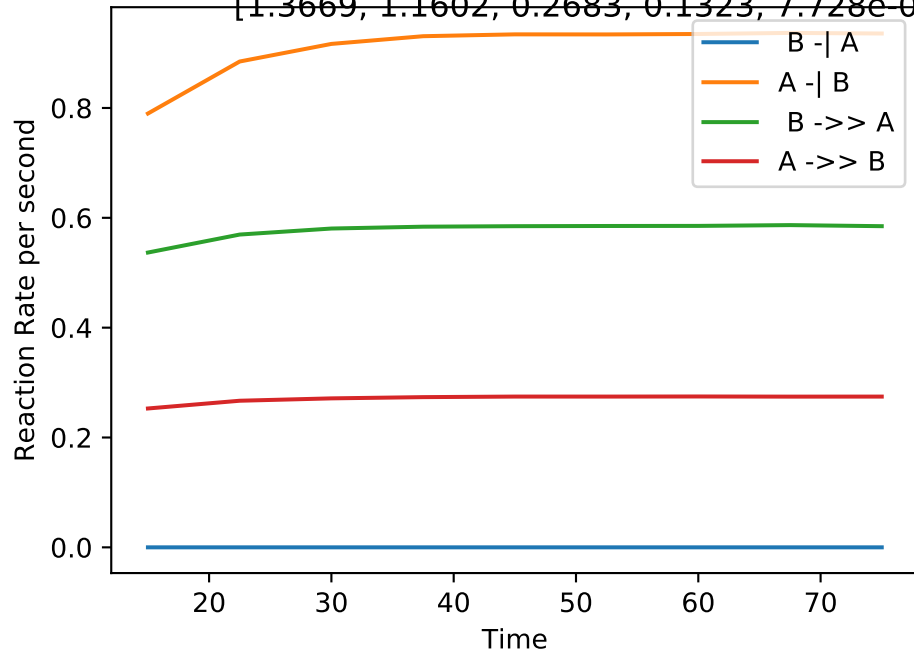
Double_up | MB-LLS Double_up(#372):

[0.7195, 1.8479, 0.0242, 0.4169, 0.0008846, 9.779e-09, 0.0000, 0.0297, 0.3237, 0.0310]



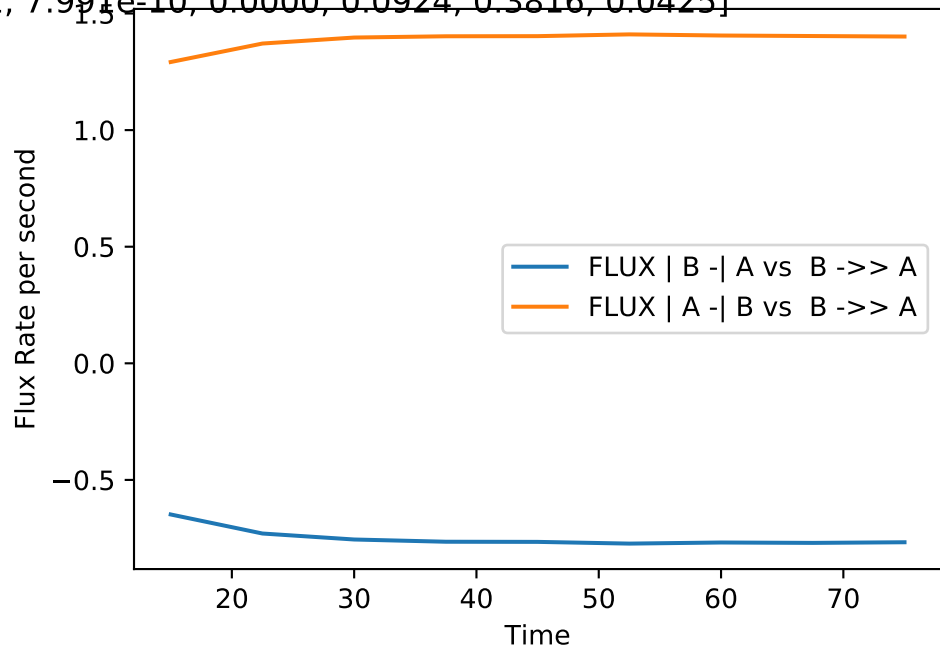
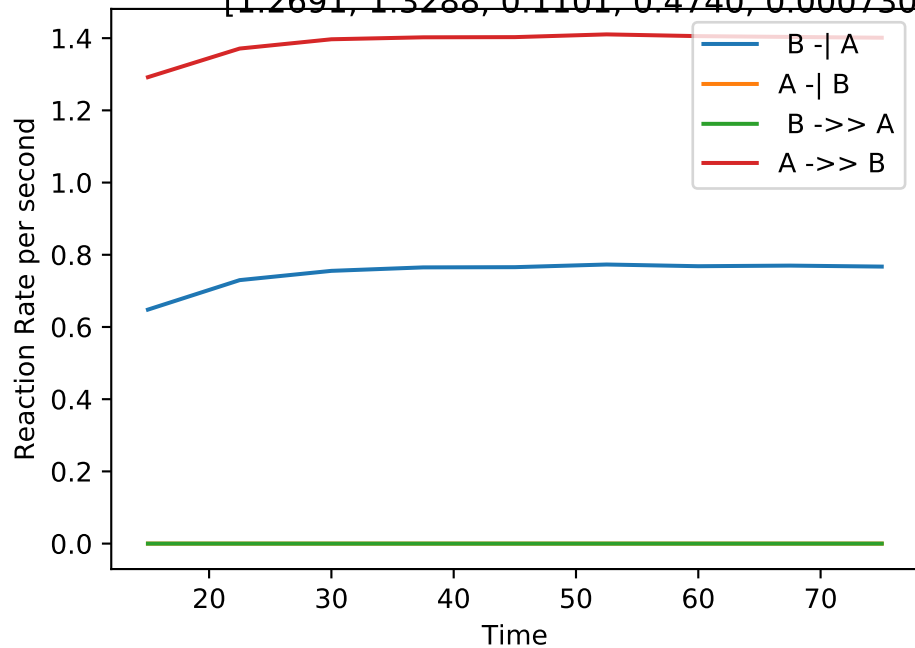
Double_up | MB-LLS Double_up(#373):

[1.3669, 1.1602, 0.2683, 0.1323, 7.728e-09, 0.000885, 0.0177, 0.2055, 0.1143, 0.0083]



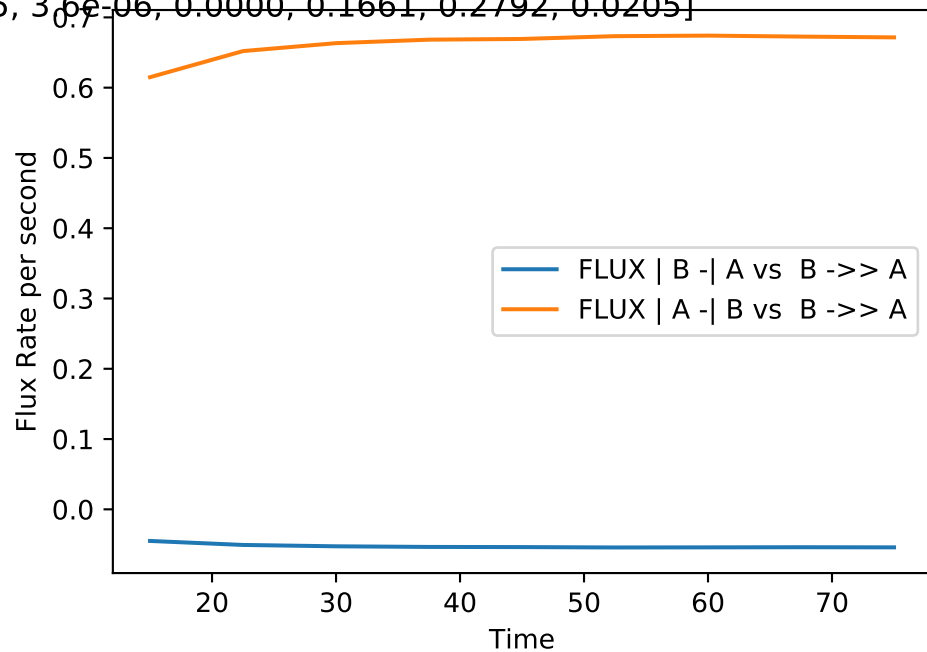
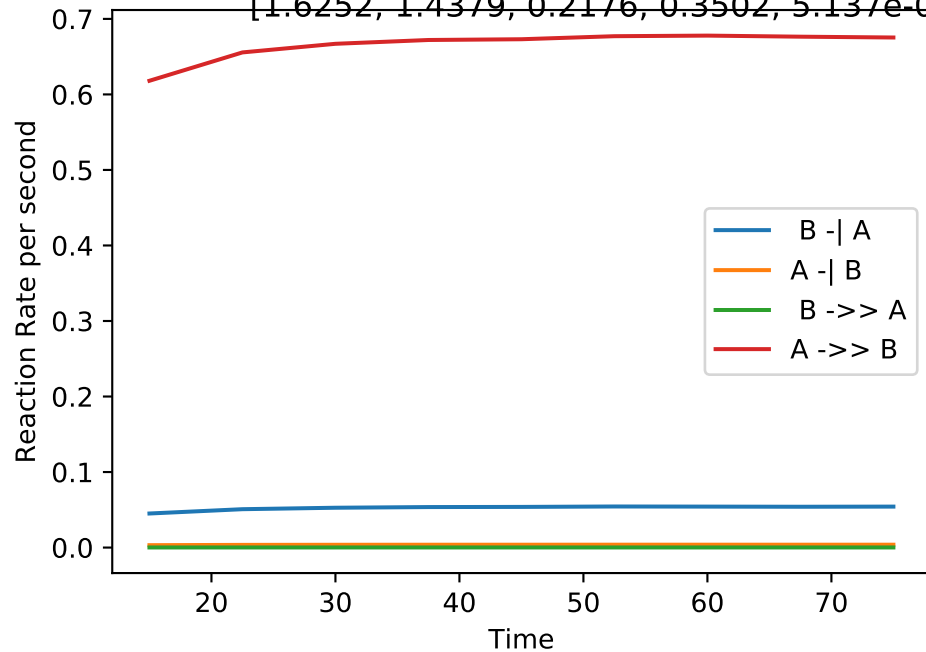
Double_up | MB-LLS Double_up(#374):

[1.2691, 1.3288, 0.1101, 0.4740, 0.0007301, 7.991e-10, 0.0000, 0.0924, 0.3816, 0.0425]



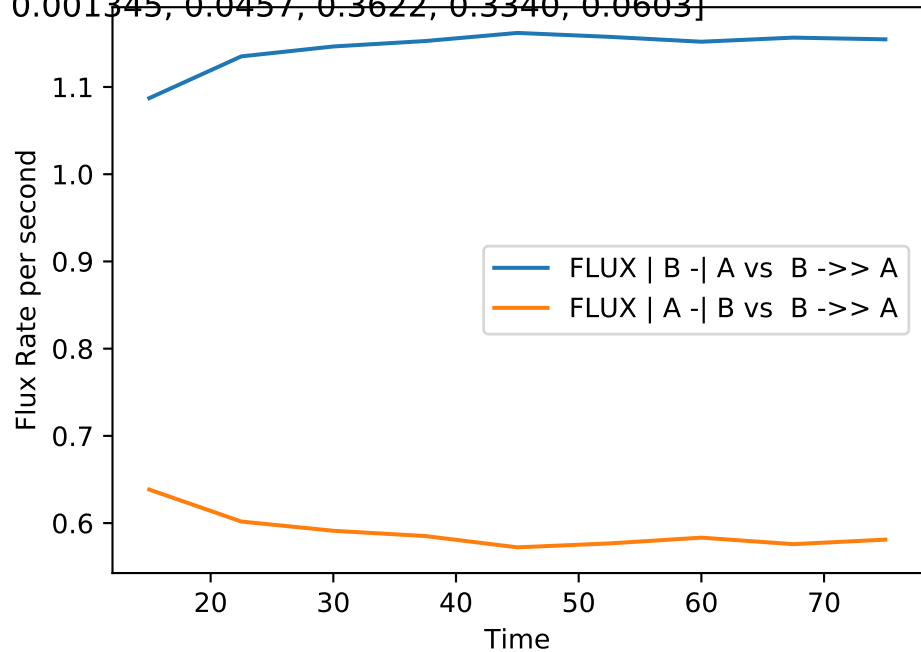
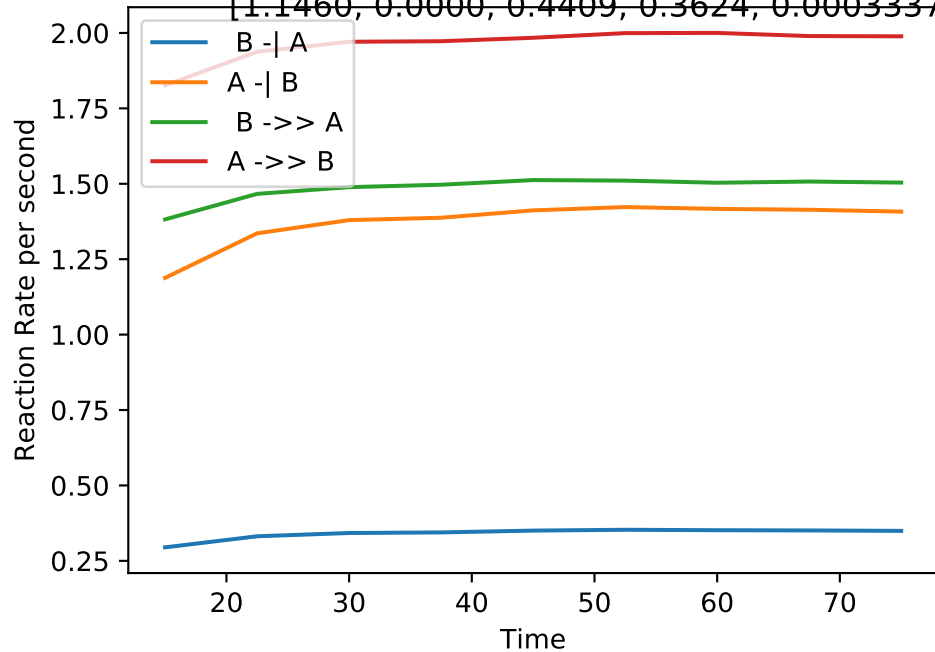
Double_up | MB-LLS Double_up(#375):

[1.6252, 1.4379, 0.2176, 0.3502, 5.137e-05, 3.6e-06, 0.0000, 0.1661, 0.2792, 0.0205]



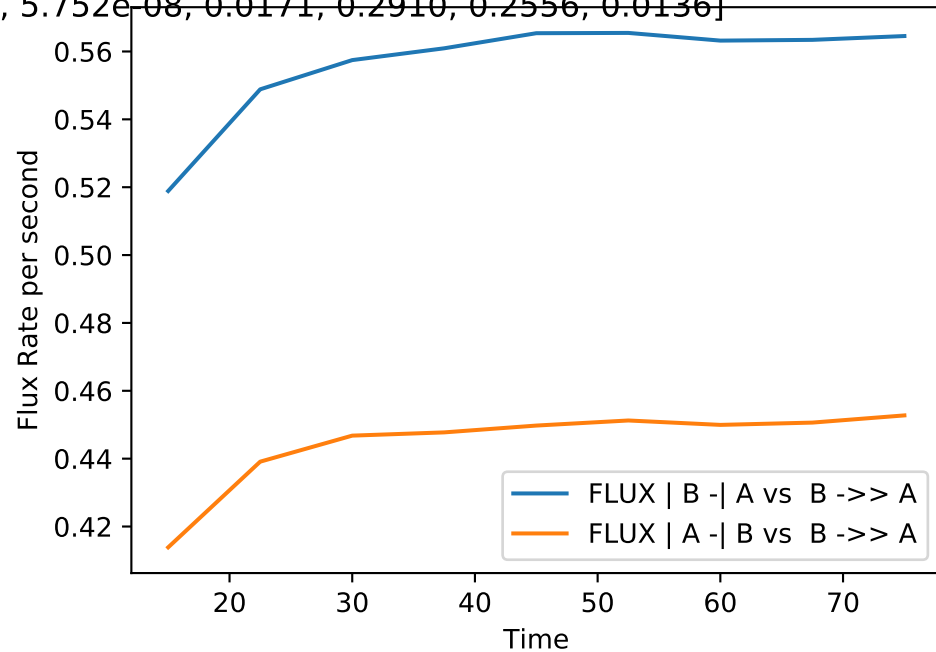
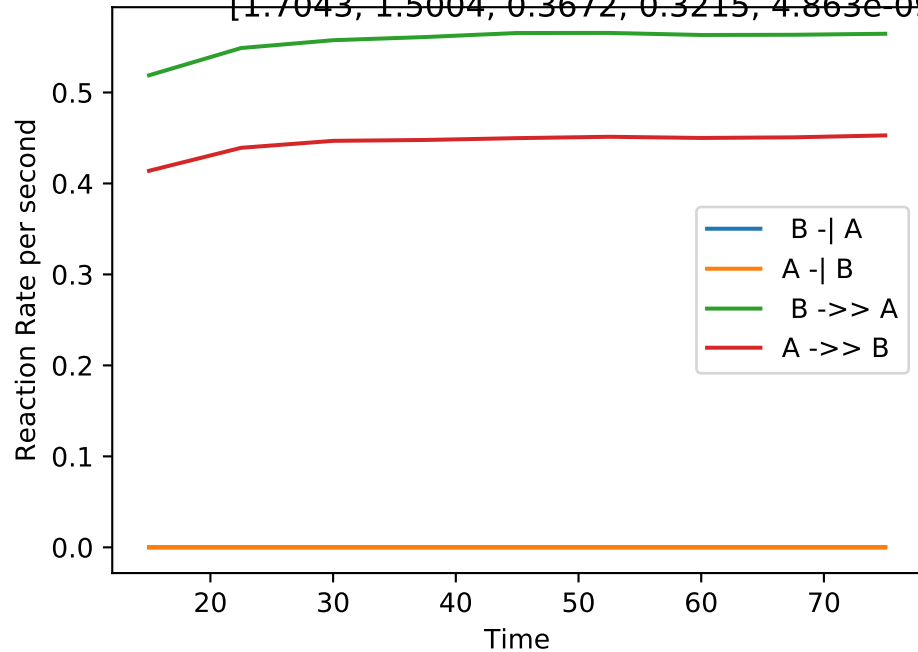
Double_up | MB-LLS Double_up(#376):

[1.1460, 0.0000, 0.4409, 0.3624, 0.0003337, 0.001345, 0.0457, 0.3622, 0.3340, 0.0603]



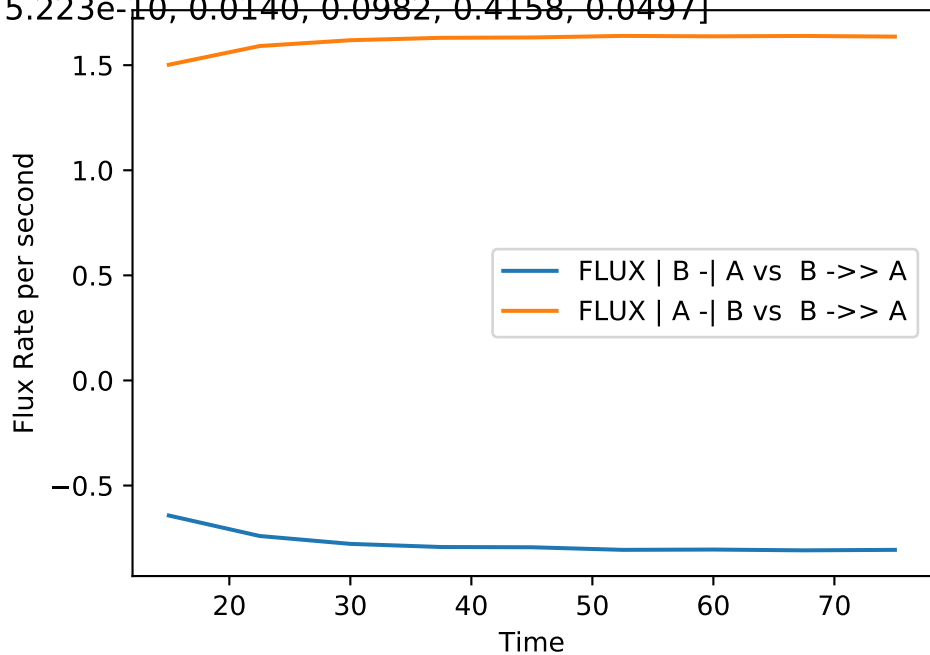
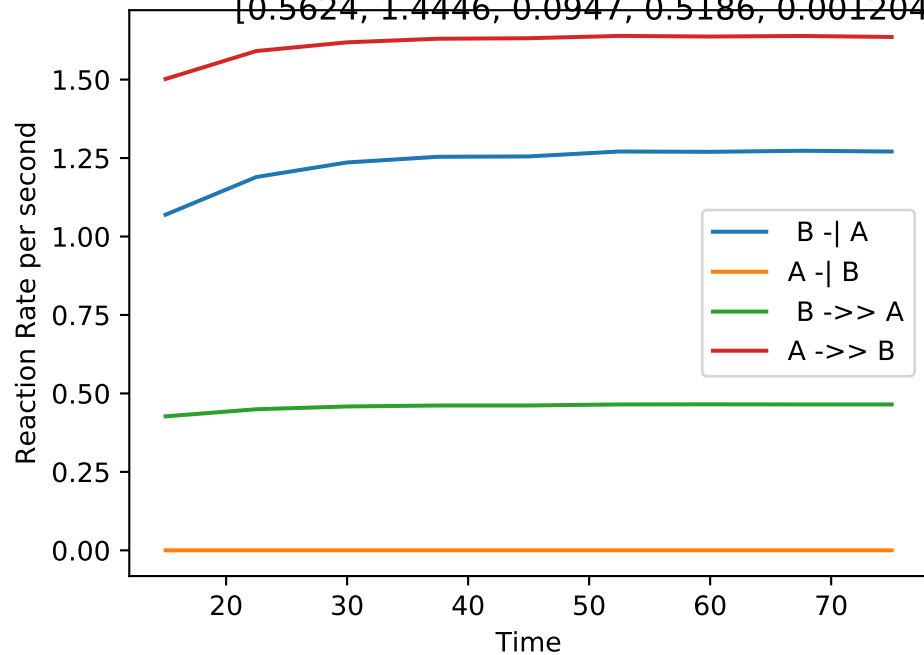
Double_up | MB-LLS Double_up(#377):

[1.7043, 1.5004, 0.3672, 0.3215, 4.863e-09, 5.752e-08, 0.0171, 0.2910, 0.2556, 0.0136]



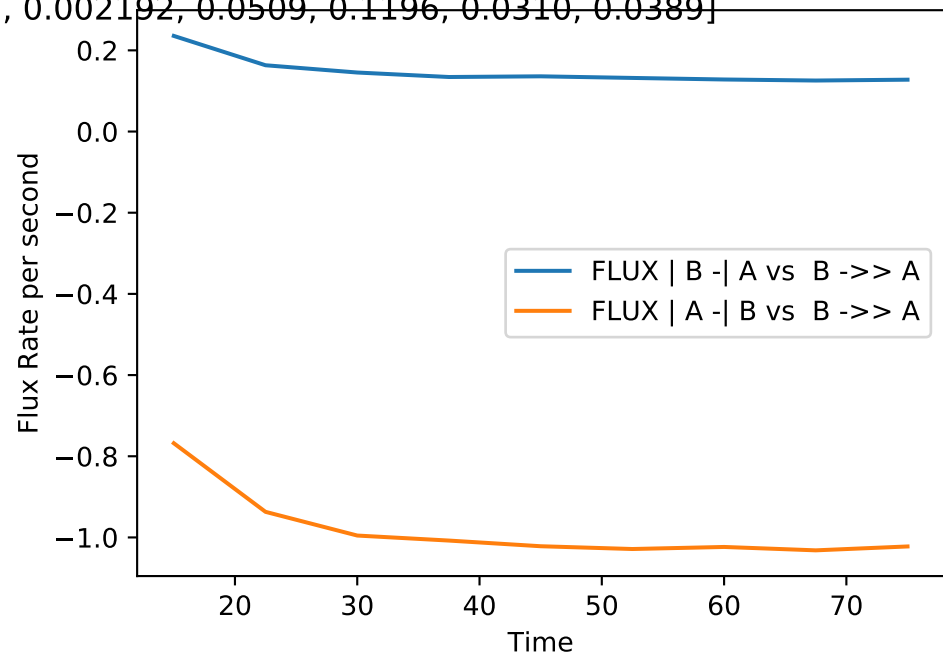
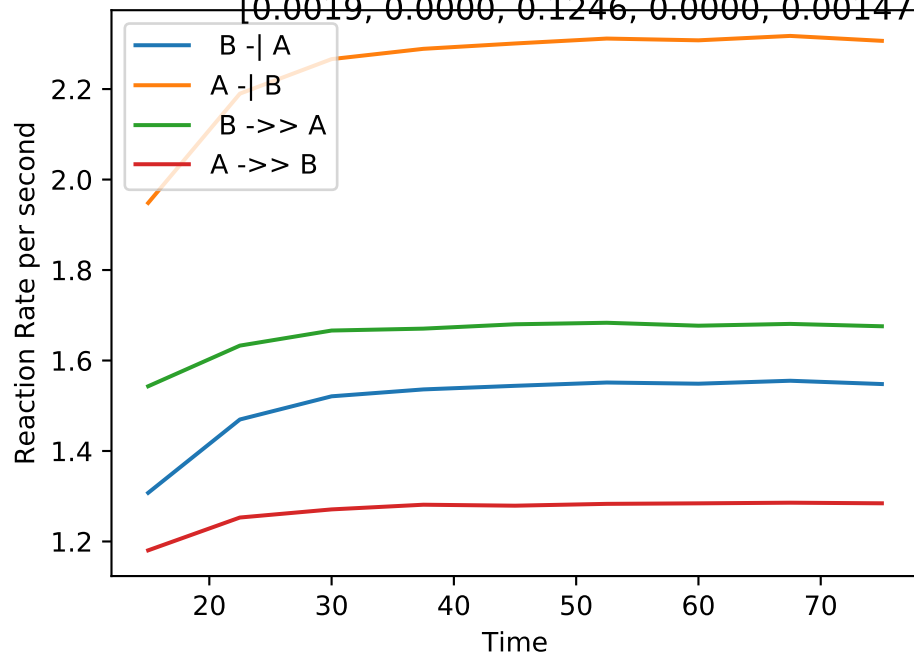
Double_up | MB-LLS Double_up(#378):

[0.5624, 1.4446, 0.0947, 0.5186, 0.001204, 5.223e-10, 0.0140, 0.0982, 0.4158, 0.0497]



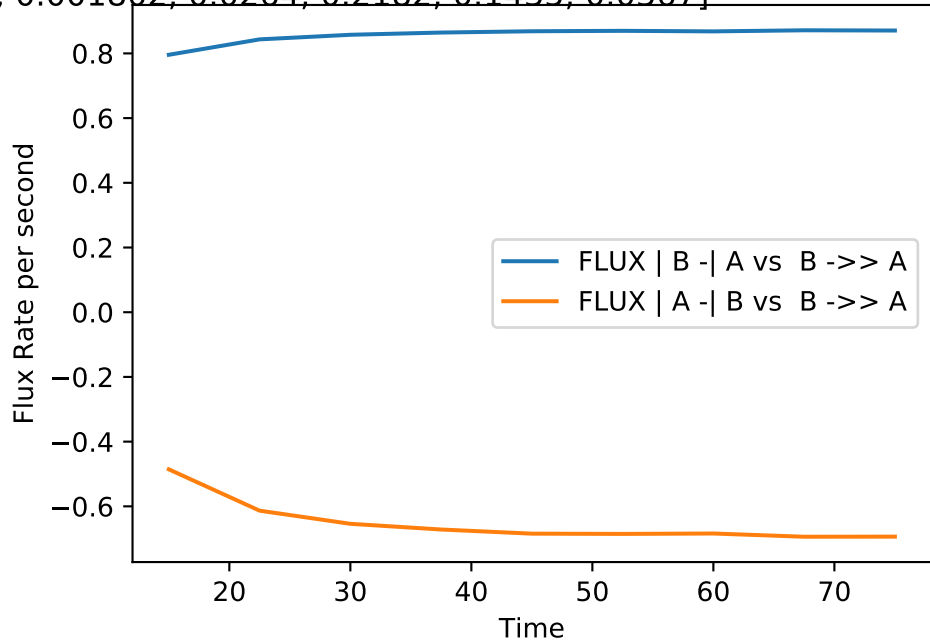
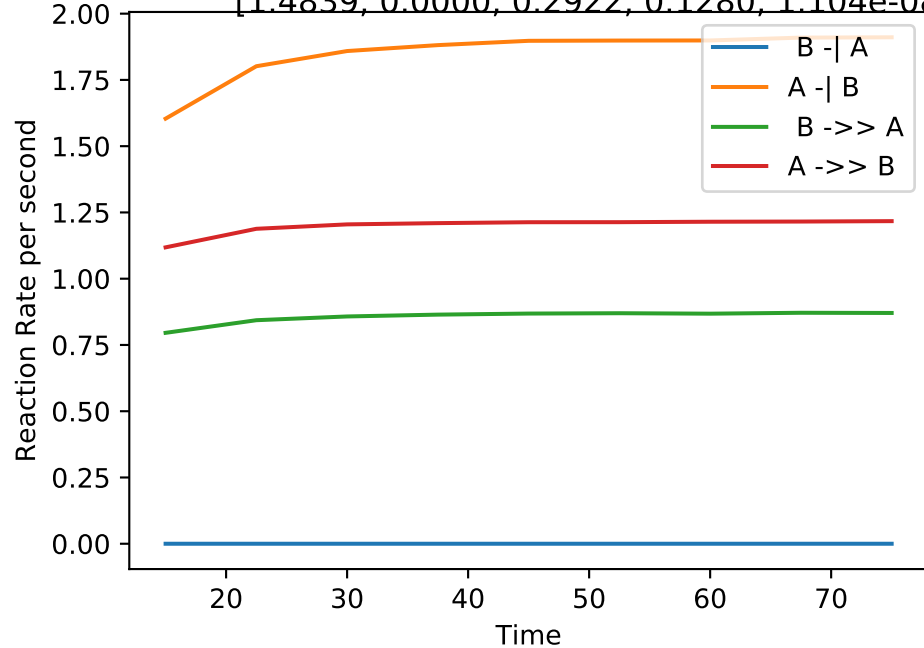
Double_up | MB-LLS Double_up(#379):

[0.0019, 0.0000, 0.1246, 0.0000, 0.001471, 0.002192, 0.0509, 0.1196, 0.0310, 0.0389]



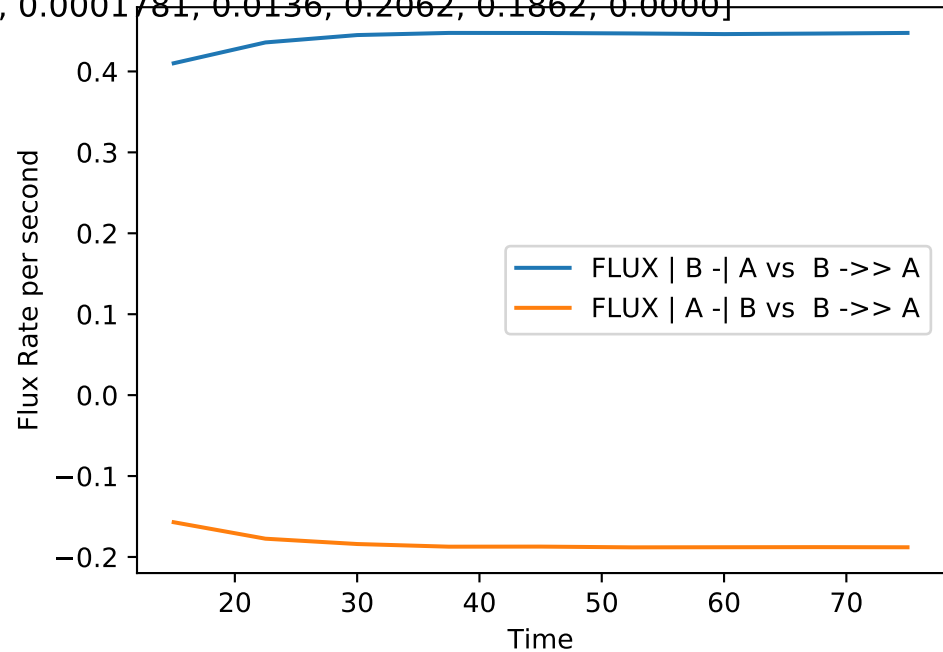
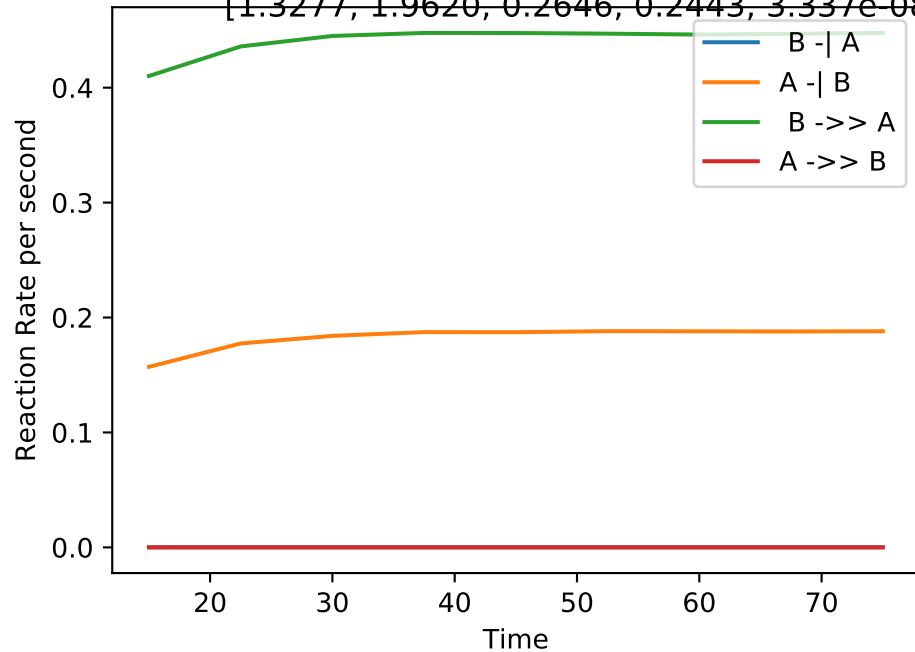
Double_up | MB-LLS Double_up(#380):

[1.4839, 0.0000, 0.2922, 0.1280, 1.104e-08, 0.001802, 0.0264, 0.2182, 0.1435, 0.0367]



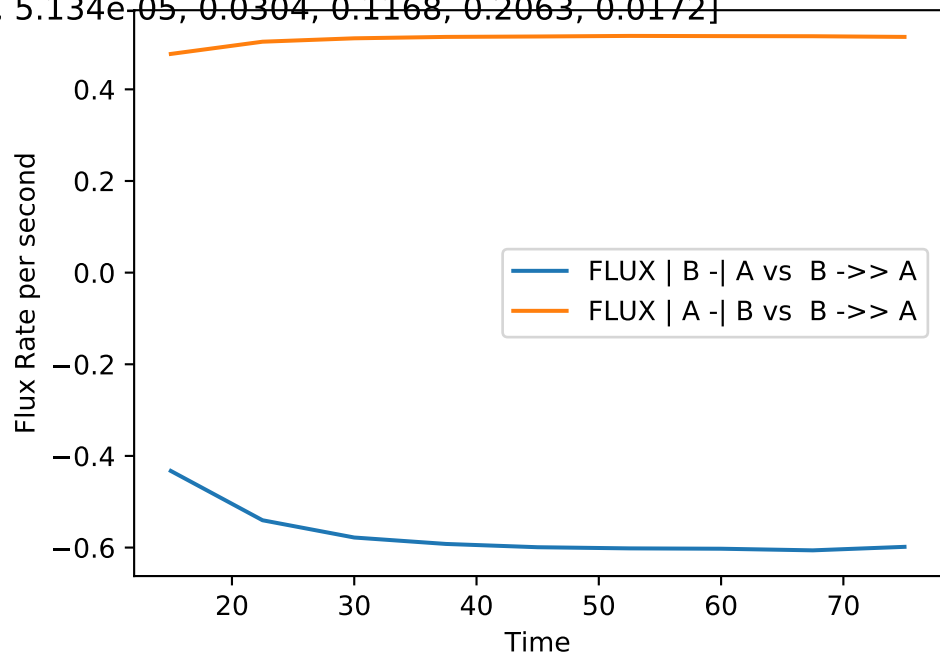
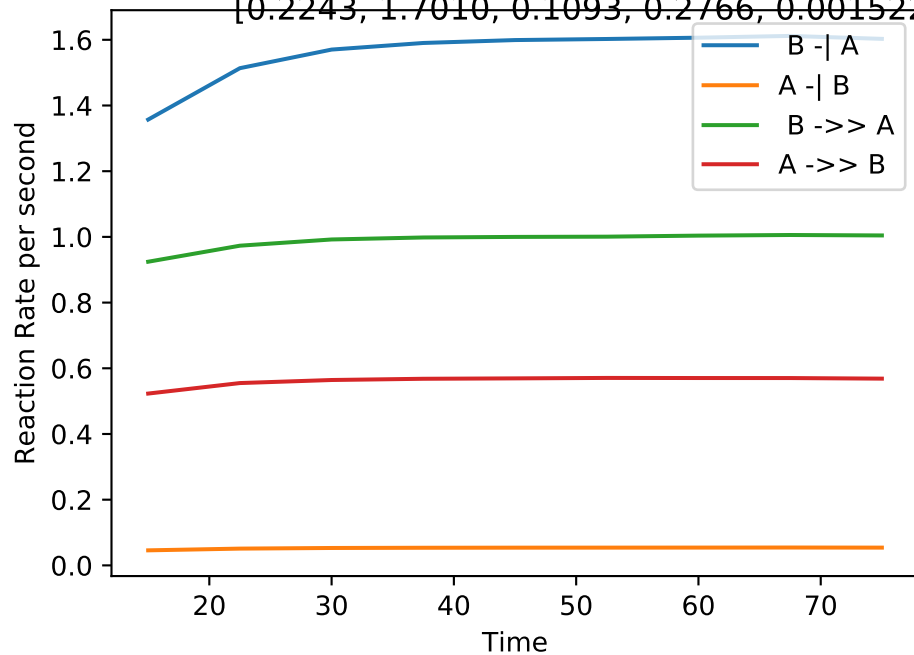
Double_up | MB-LLS Double_up(#381):

[1.3277, 1.9620, 0.2646, 0.2443, 3.337e-08, 0.0001781, 0.0136, 0.2062, 0.1862, 0.0000]



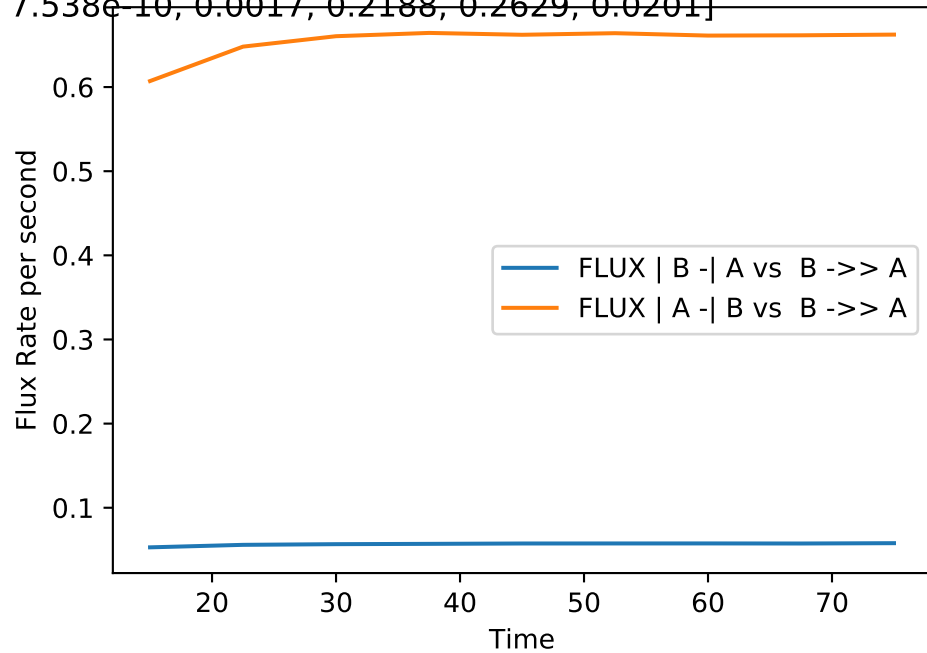
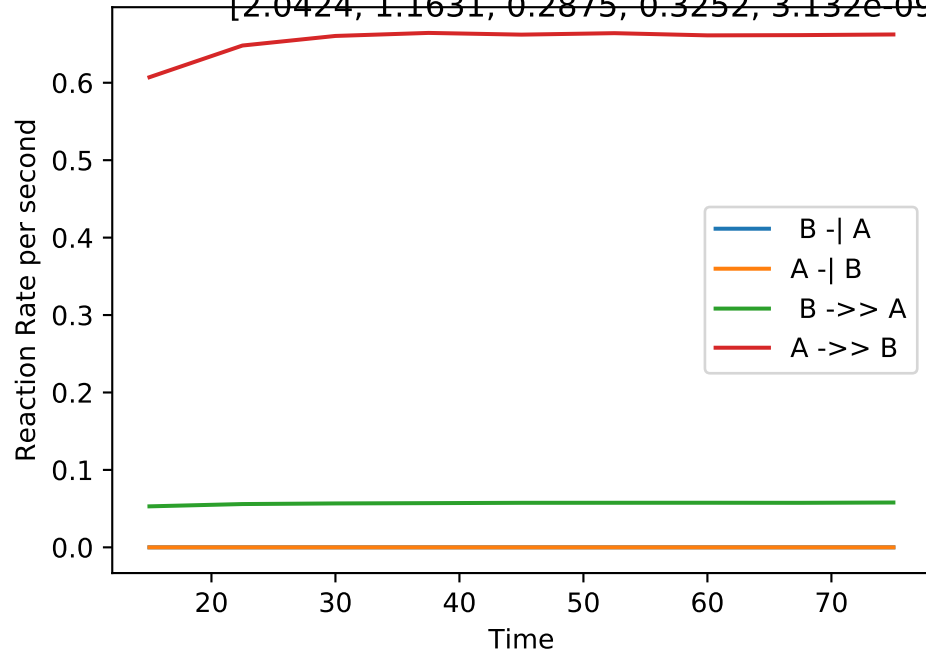
Double_up | MB-LLS Double_up(#382):

[0.2243, 1.7010, 0.1093, 0.2766, 0.001522, 5.134e-05, 0.0304, 0.1168, 0.2063, 0.0172]



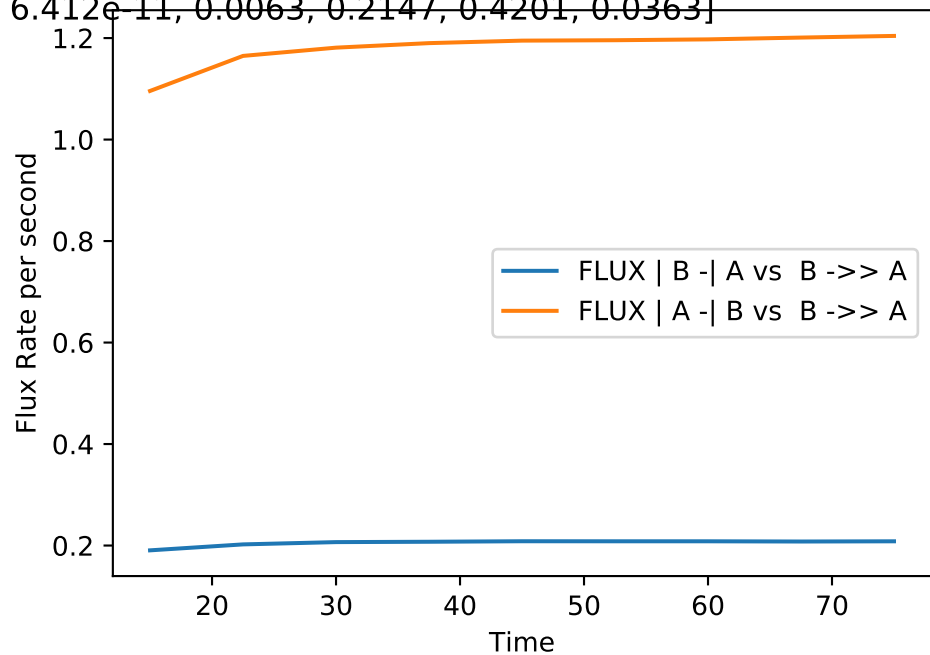
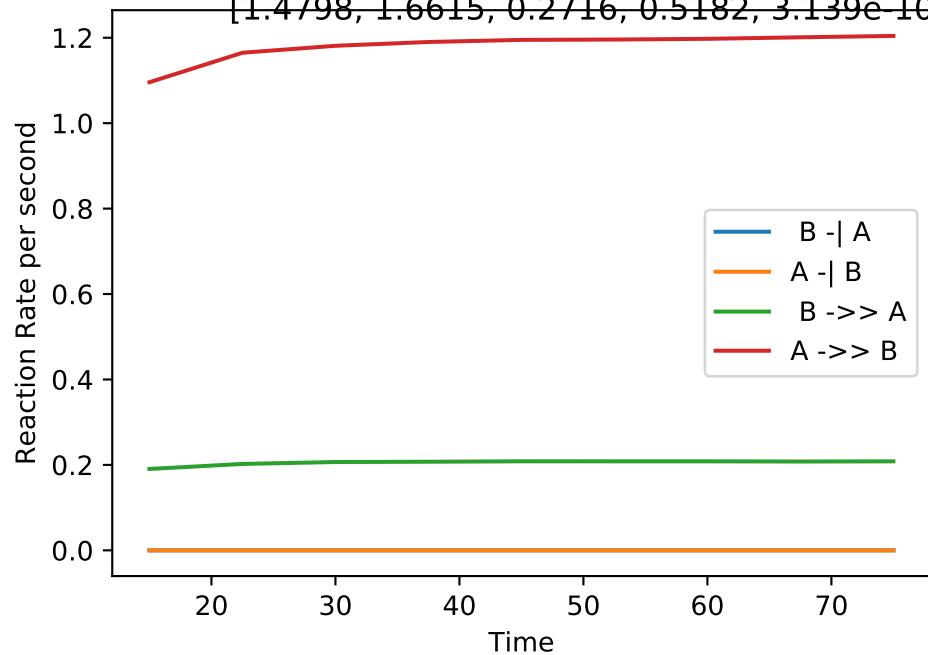
Double_up | MB-LLS Double_up(#383):

[2.0424, 1.1631, 0.2875, 0.3252, 3.132e-09, 7.538e-10, 0.0017, 0.2188, 0.2629, 0.0201]



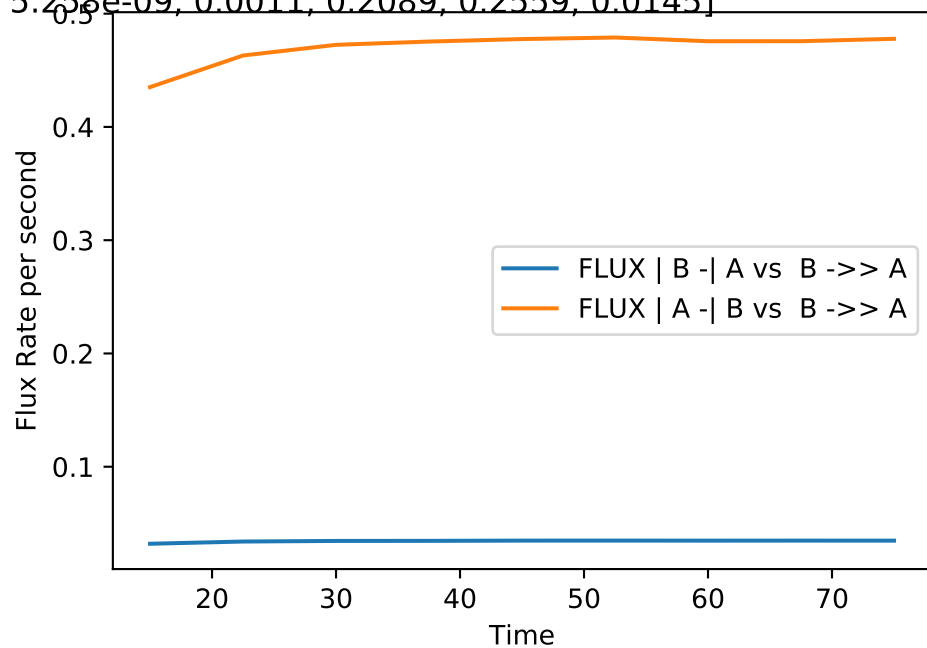
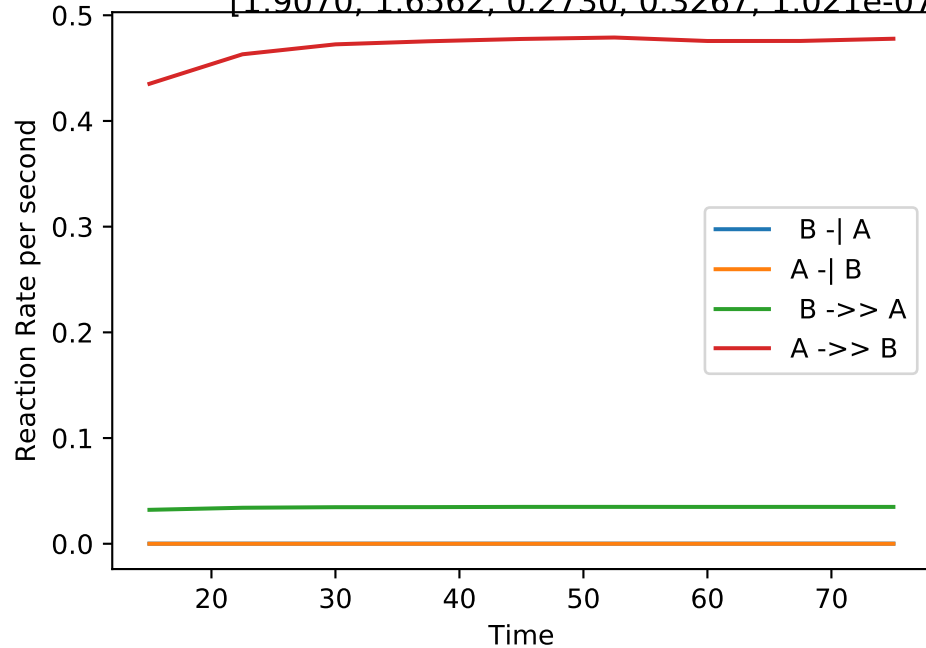
Double_up | MB-LLS Double_up(#384):

[1.4798, 1.6615, 0.2716, 0.5182, 3.139e-10, 6.412e-11, 0.0063, 0.2147, 0.4201, 0.0363]



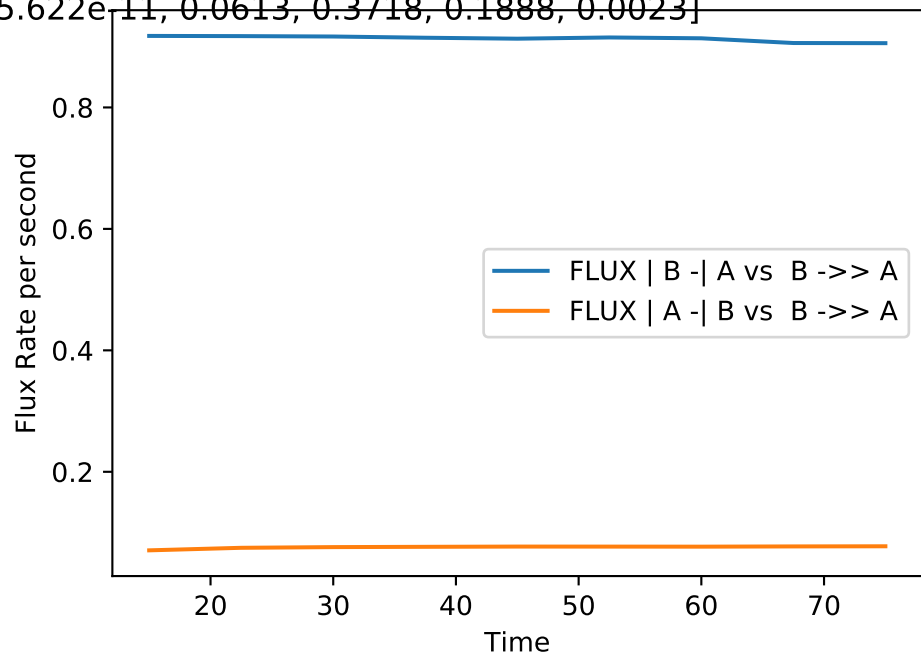
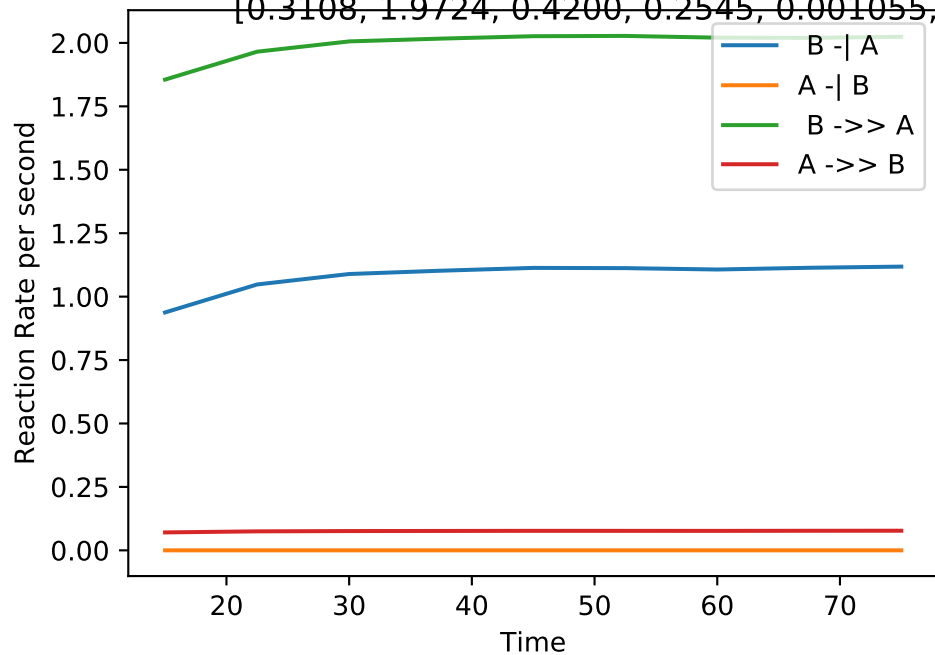
Double_up | MB-LLS Double_up(#385):

[1.9070, 1.6562, 0.2730, 0.3267, 1.021e-07, 5.258e-09, 0.0011, 0.2089, 0.2559, 0.0145]



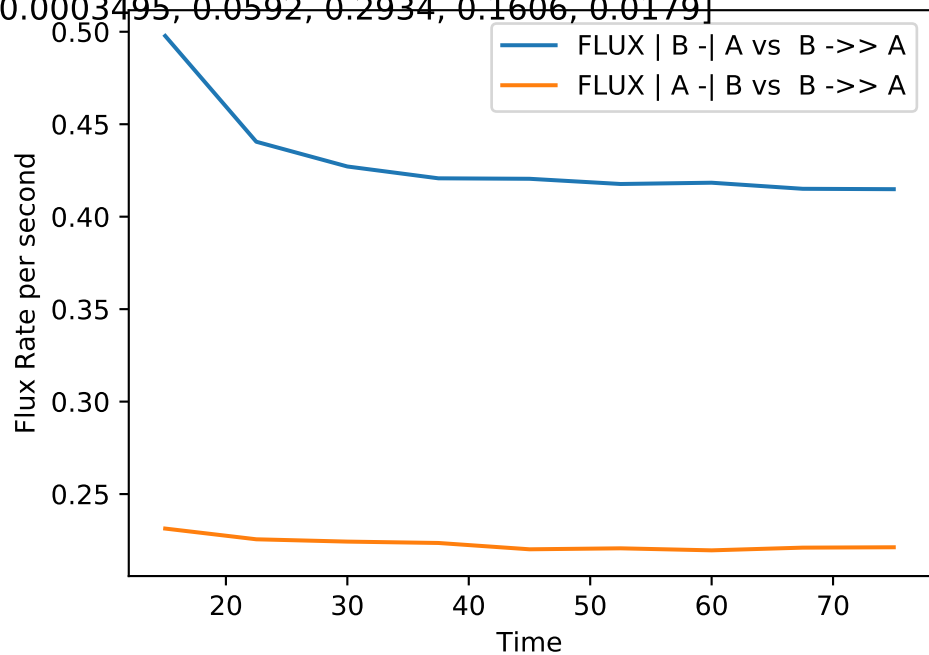
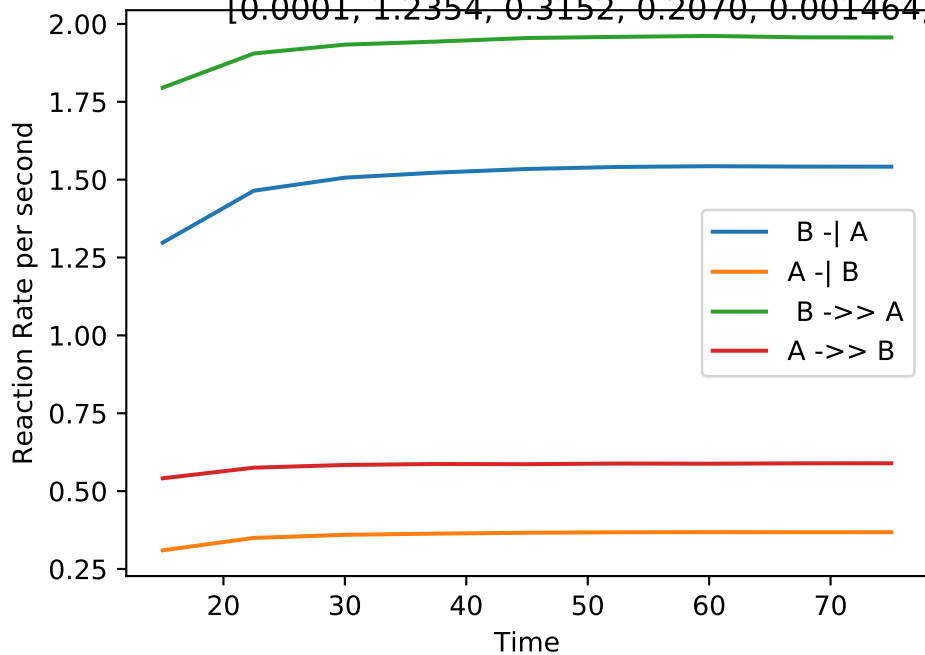
Double_up | MB-LLS Double_up(#386):

[0.3108, 1.9724, 0.4200, 0.2545, 0.001055, 5.622e-11, 0.0613, 0.3718, 0.1888, 0.0023]



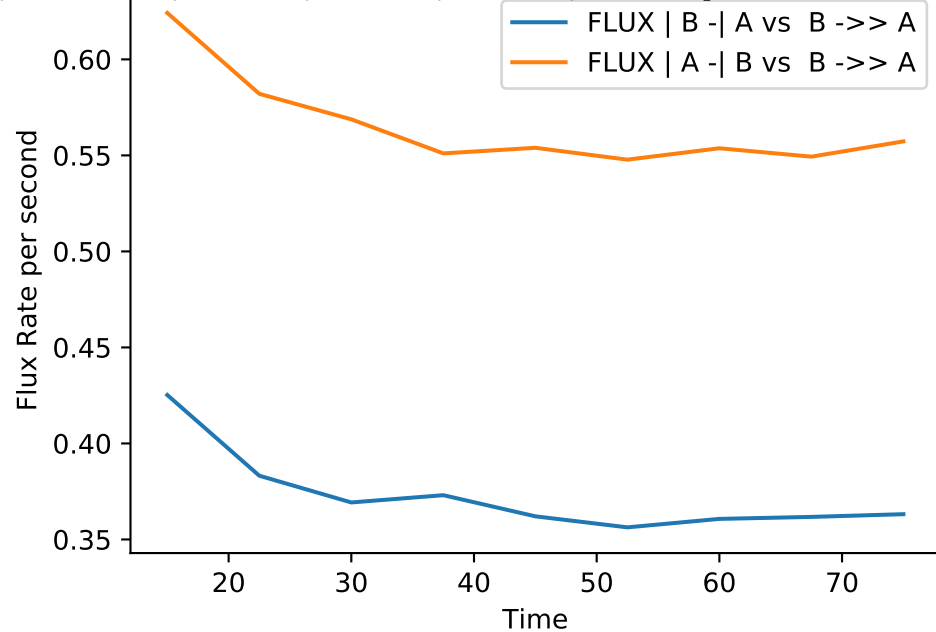
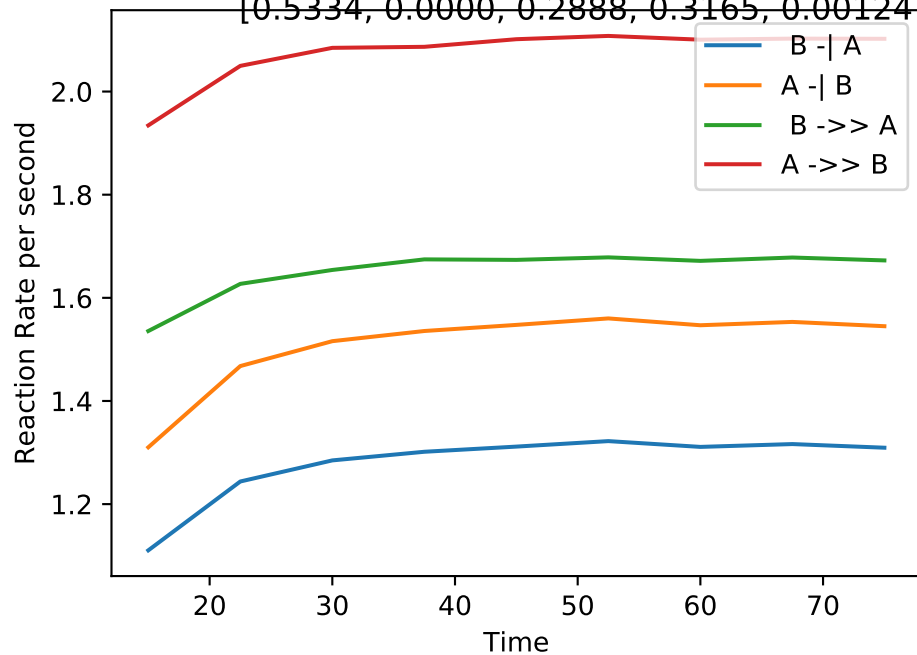
Double_up | MB-LLS Double_up(#387):

[0.0001, 1.2354, 0.3152, 0.2070, 0.001464, 0.0003495, 0.0592, 0.2934, 0.1606, 0.0179]



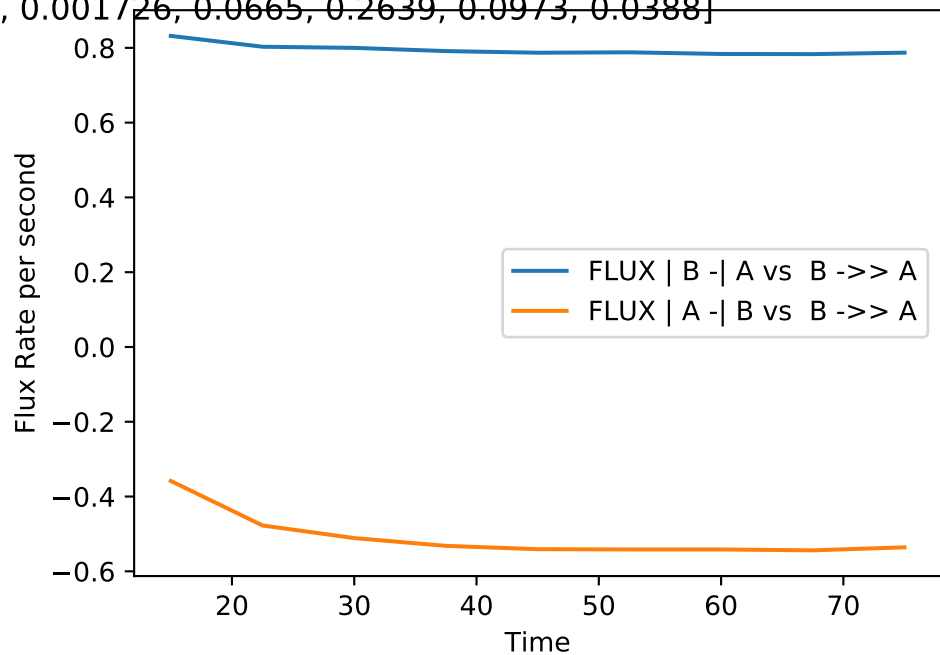
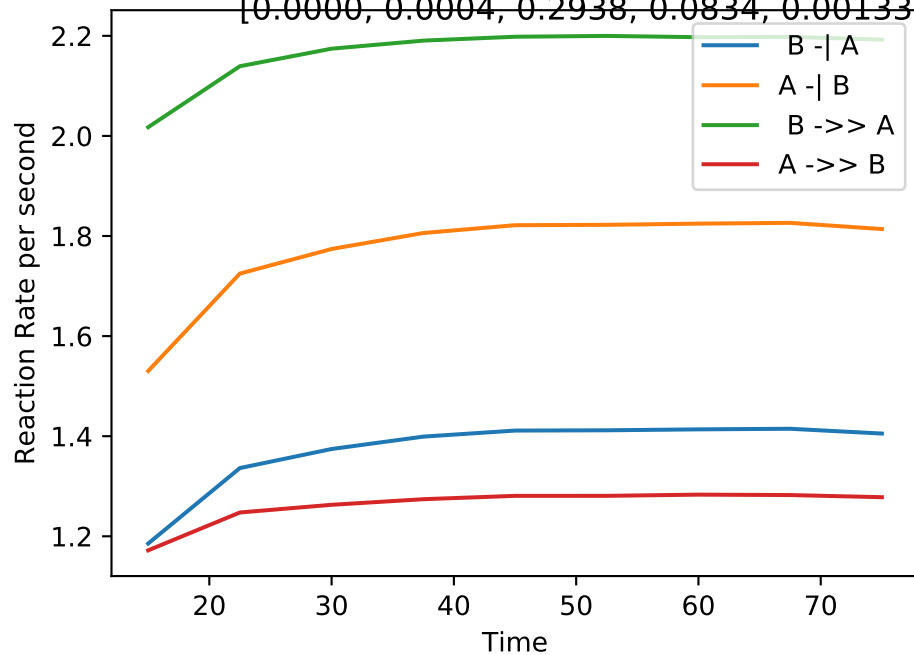
Double_up | MB-LLS Double_up(#388):

[0.5334, 0.0000, 0.2888, 0.3165, 0.001247, 0.001471, 0.0507, 0.2554, 0.2914, 0.0637]



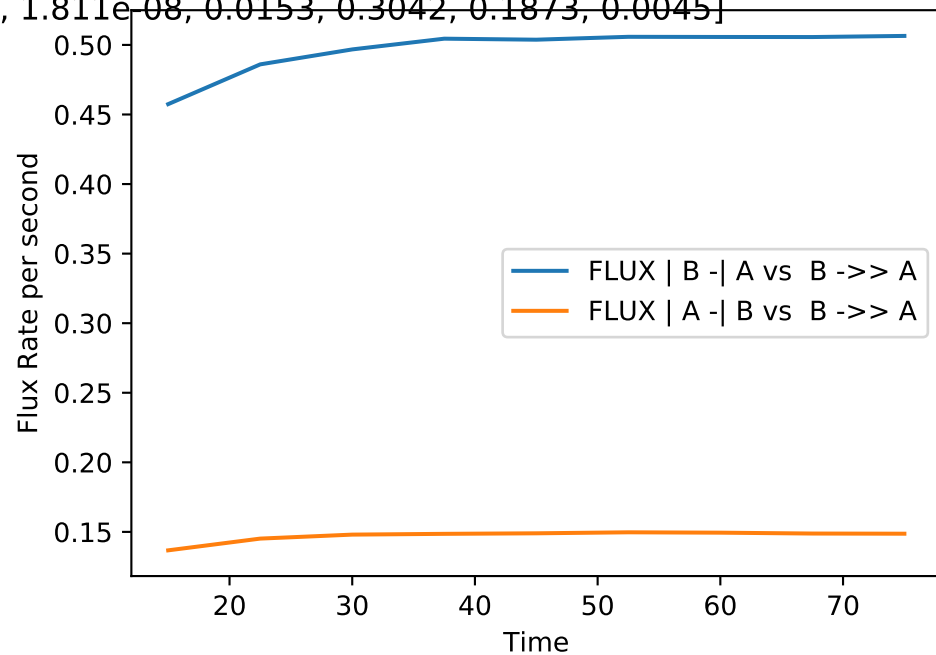
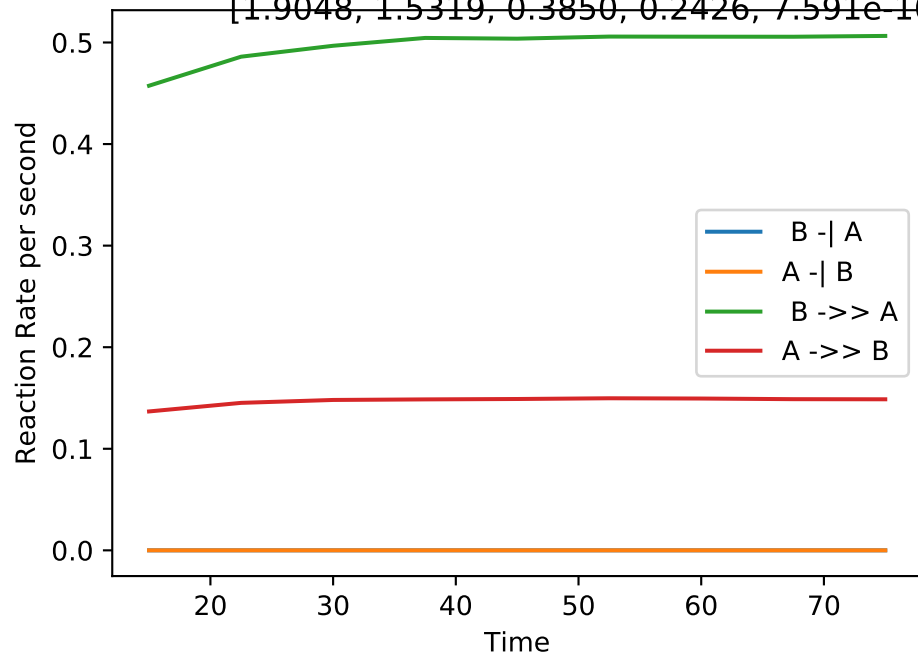
Double_up | MB-LLS Double_up(#389):

[0.0000, 0.0004, 0.2938, 0.0834, 0.001337, 0.001726, 0.0665, 0.2639, 0.0973, 0.0388]



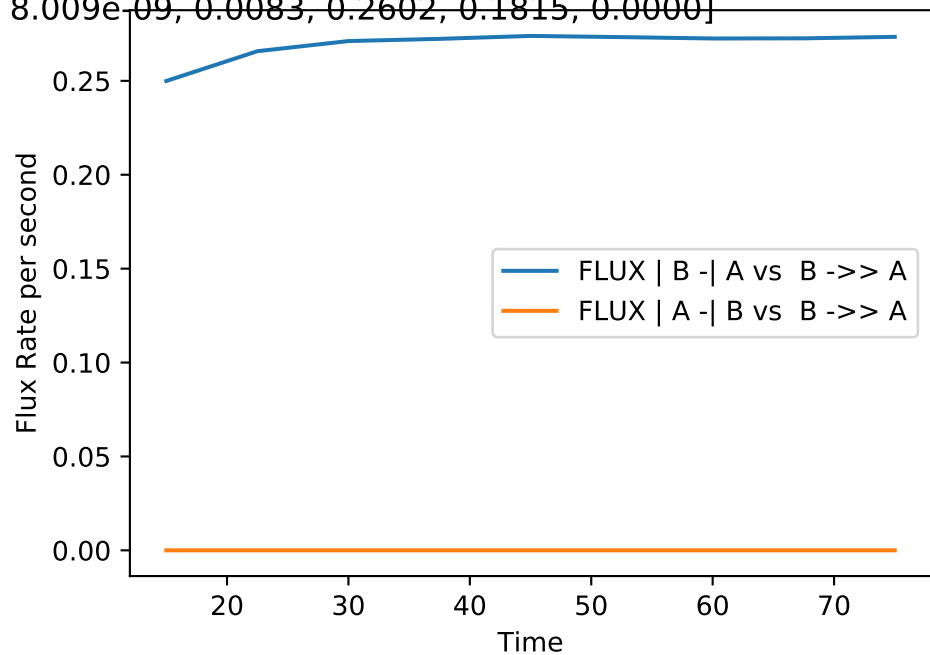
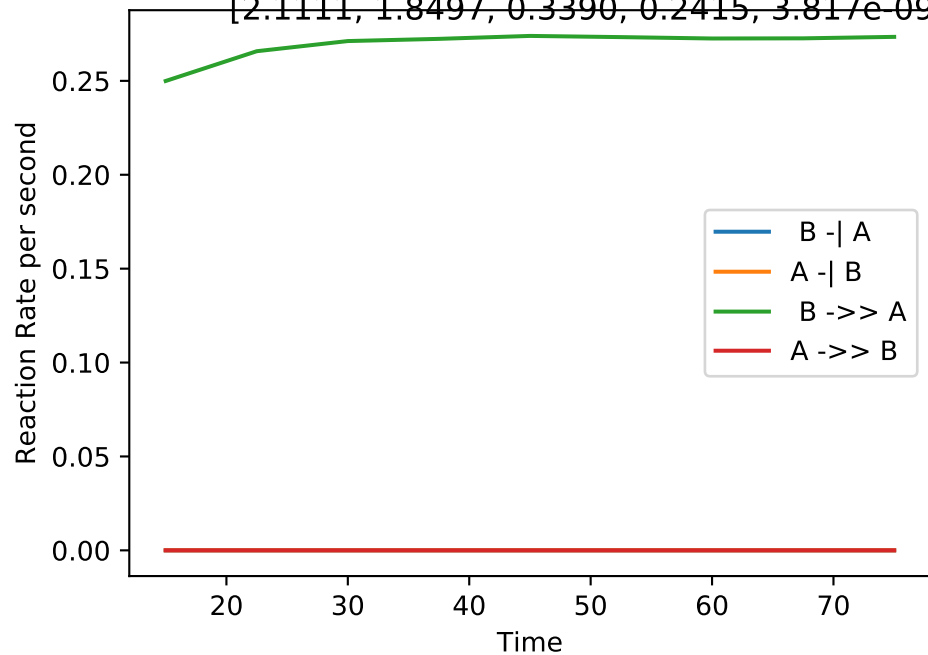
Double_up | MB-LLS Double_up(#390):

[1.9048, 1.5319, 0.3850, 0.2426, 7.591e-10, 1.811e-08, 0.0153, 0.3042, 0.1873, 0.0045]



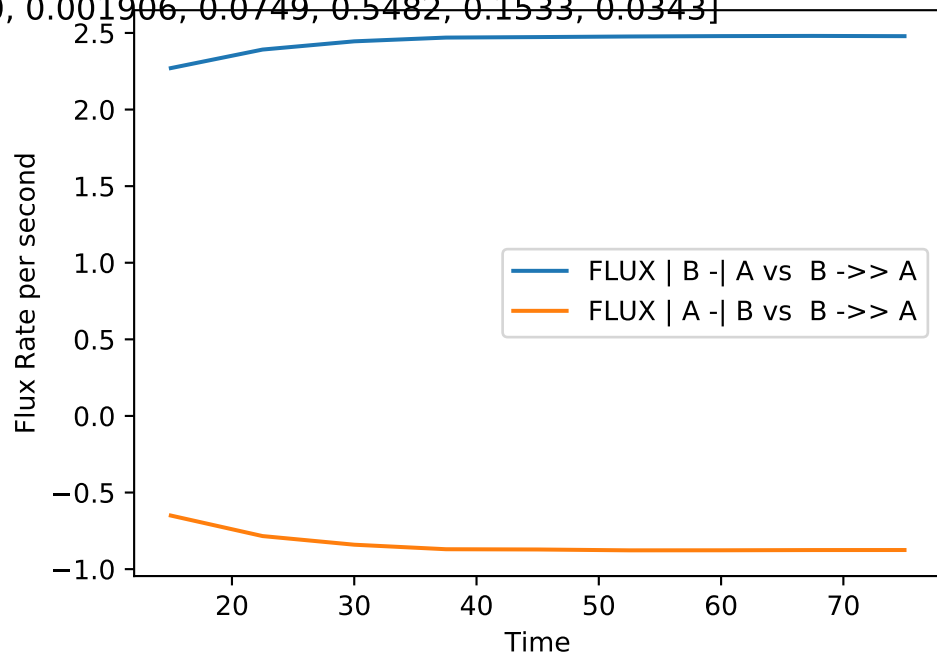
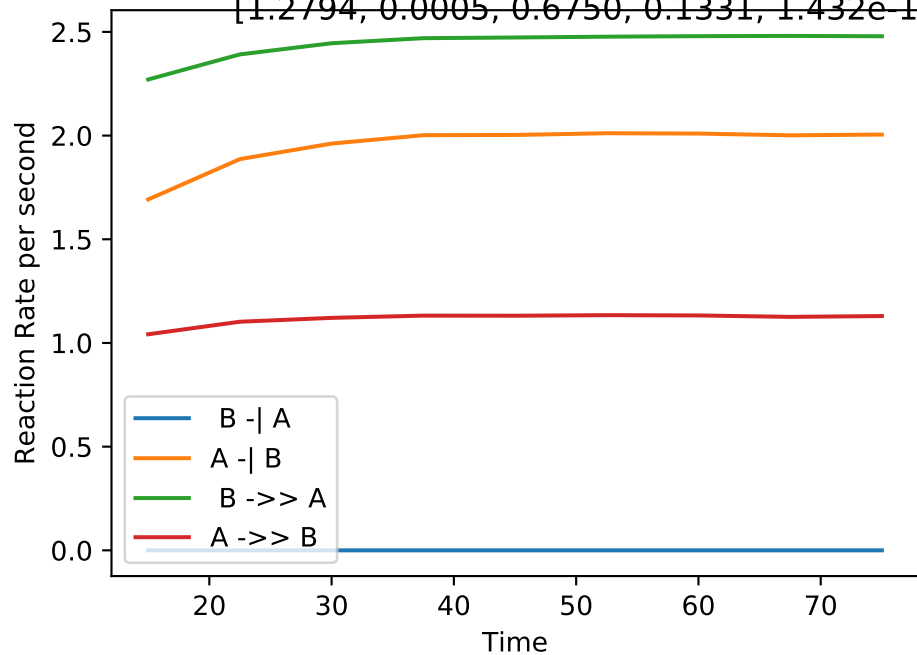
Double_up | MB-LLS Double_up(#391):

[2.1111, 1.8497, 0.3390, 0.2415, 3.817e-09, 8.009e-09, 0.0083, 0.2602, 0.1815, 0.0000]



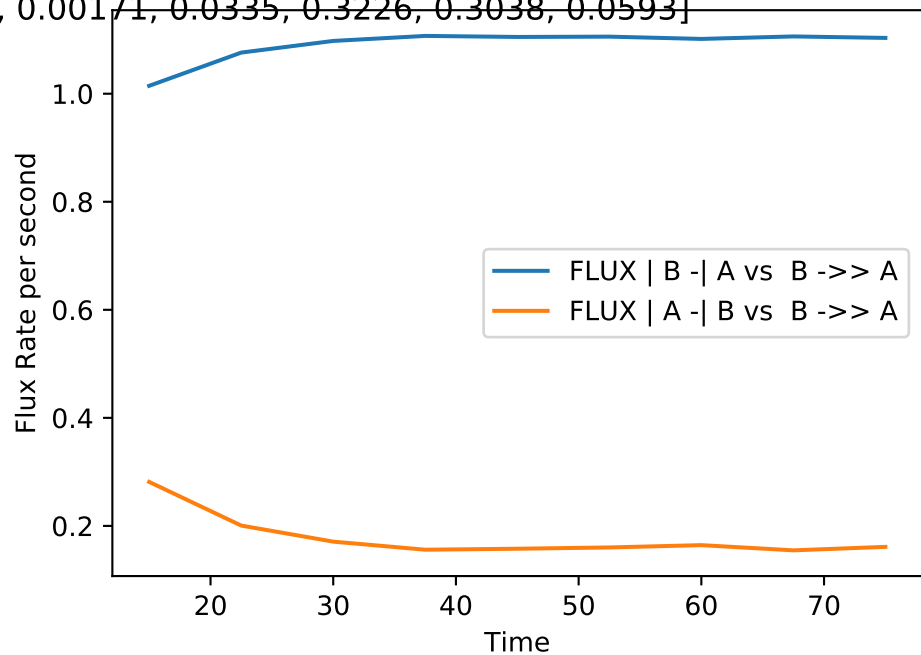
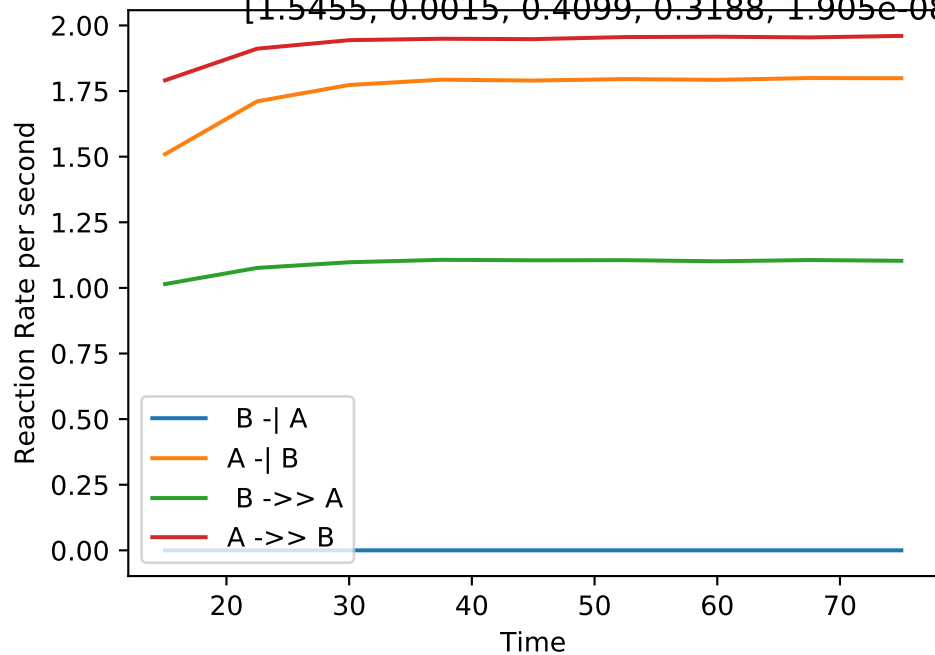
Double_up | MB-LLS Double_up(#392):

[1.2794, 0.0005, 0.6750, 0.1331, 1.432e-10, 0.001906, 0.0749, 0.5482, 0.1533, 0.0343]



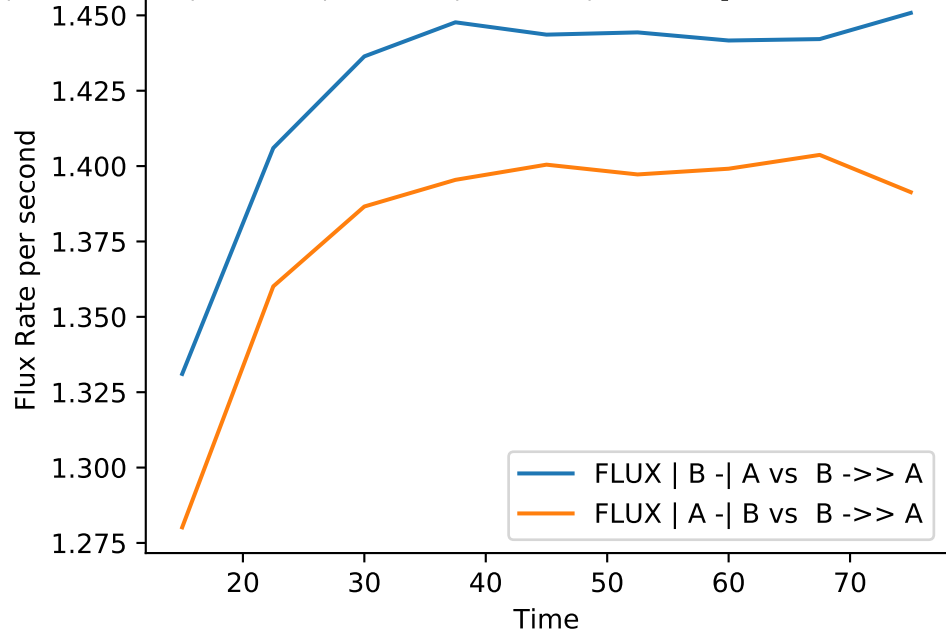
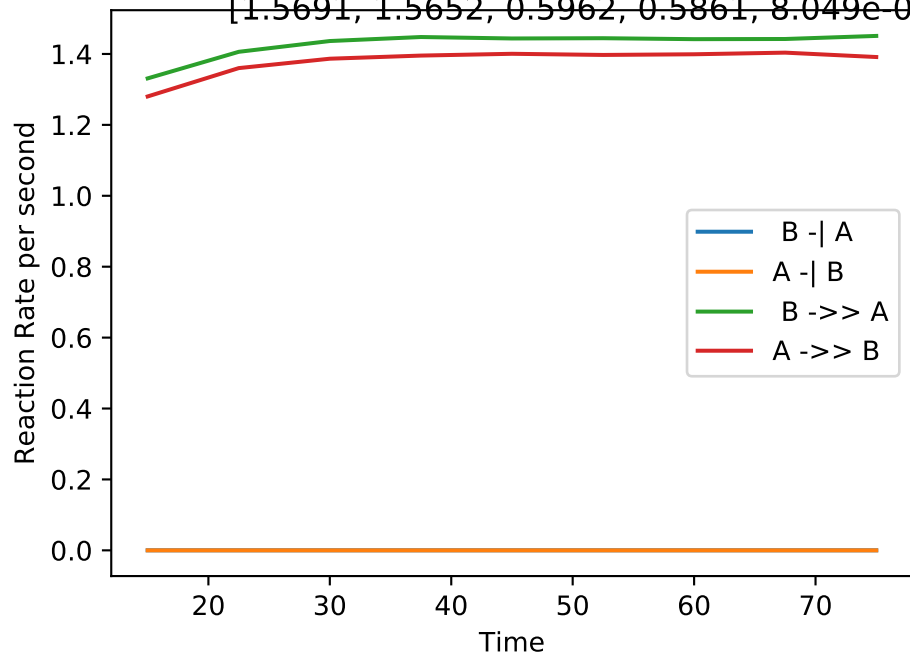
Double_up | MB-LLS Double_up(#393):

[1.5455, 0.0015, 0.4099, 0.3188, 1.905e-08, 0.00171, 0.0335, 0.3226, 0.3038, 0.0593]



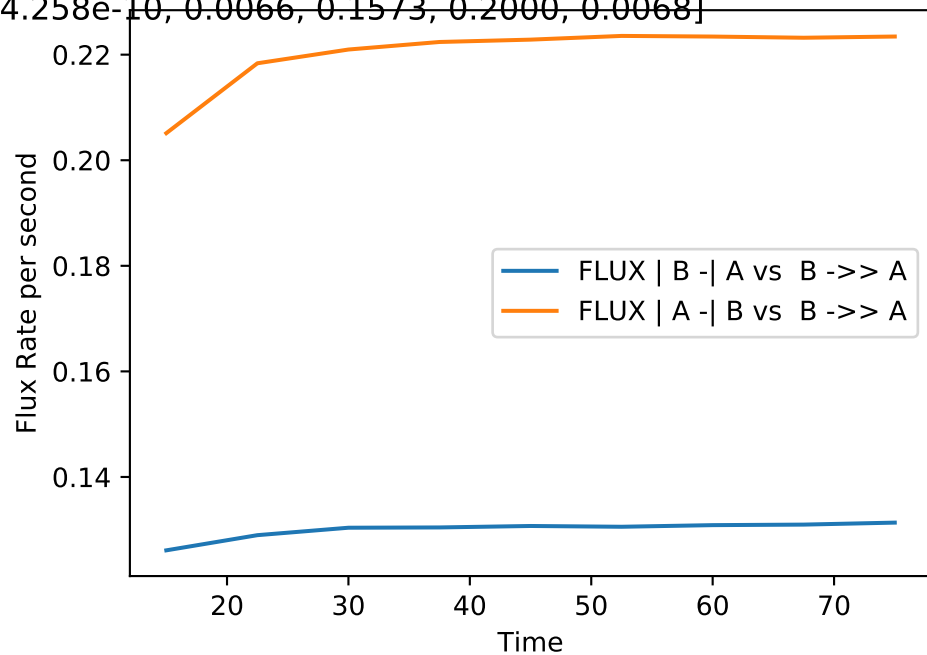
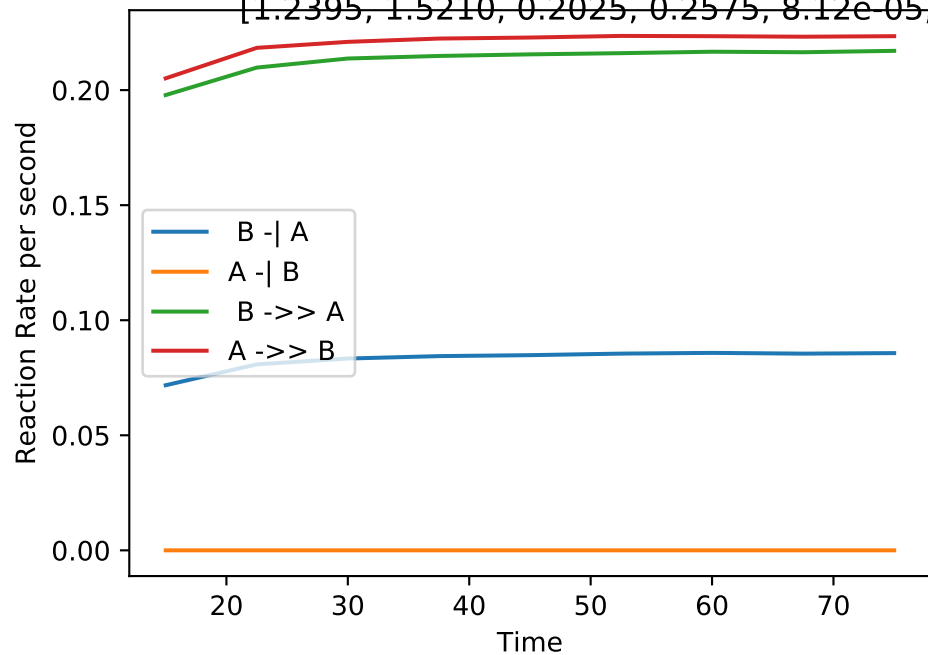
Double_up | MB-LLS Double_up(#394):

[1.5691, 1.5652, 0.5962, 0.5861, 8.049e-08, 8.405e-09, 0.0439, 0.4901, 0.4822, 0.0423]



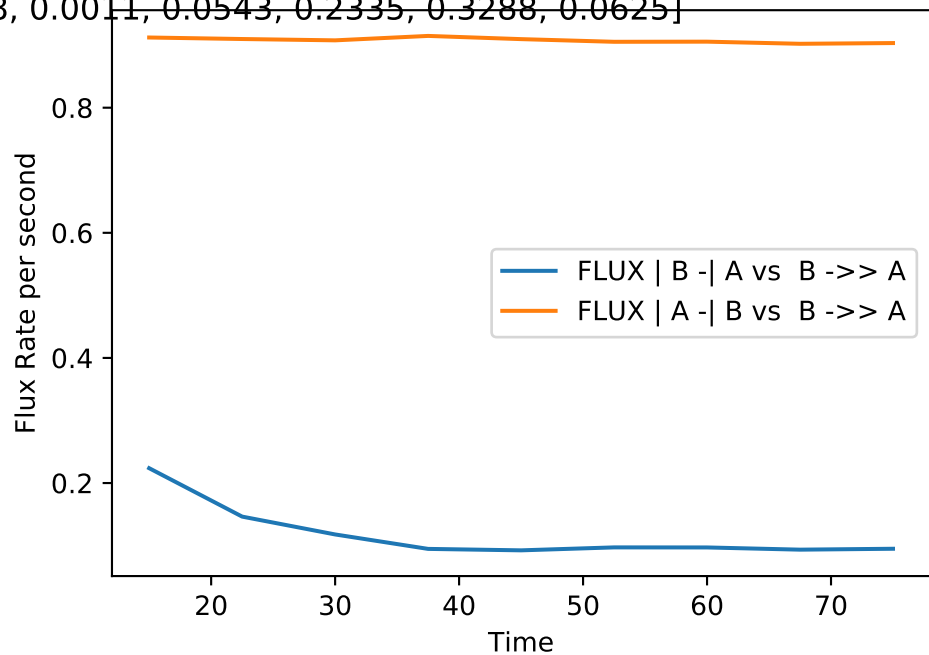
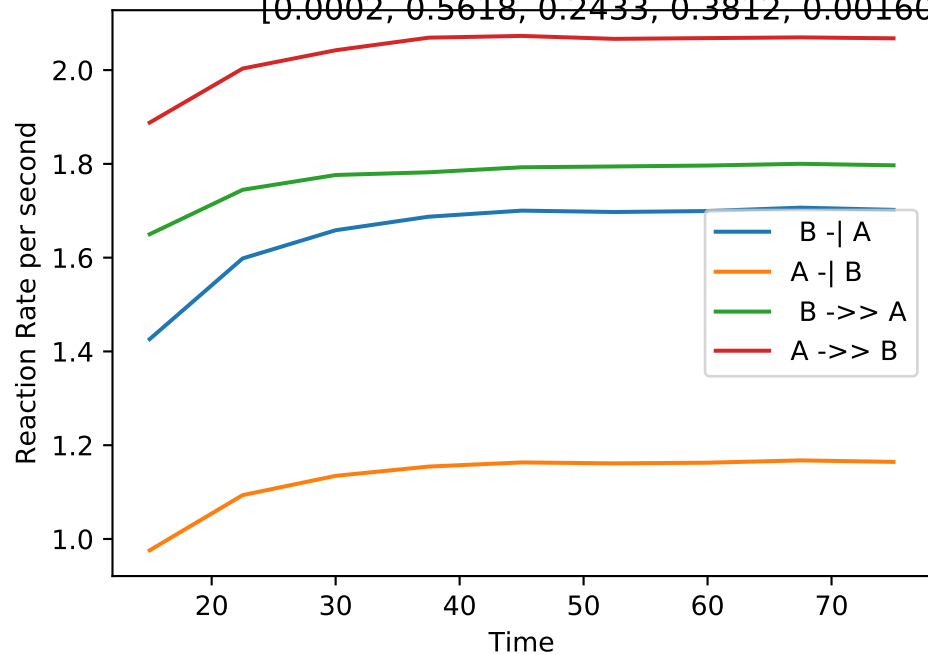
Double_up | MB-LLS Double_up(#395):

[1.2395, 1.5210, 0.2025, 0.2575, 8.12e-05, 4.258e-10, 0.0066, 0.1573, 0.2000, 0.0068]



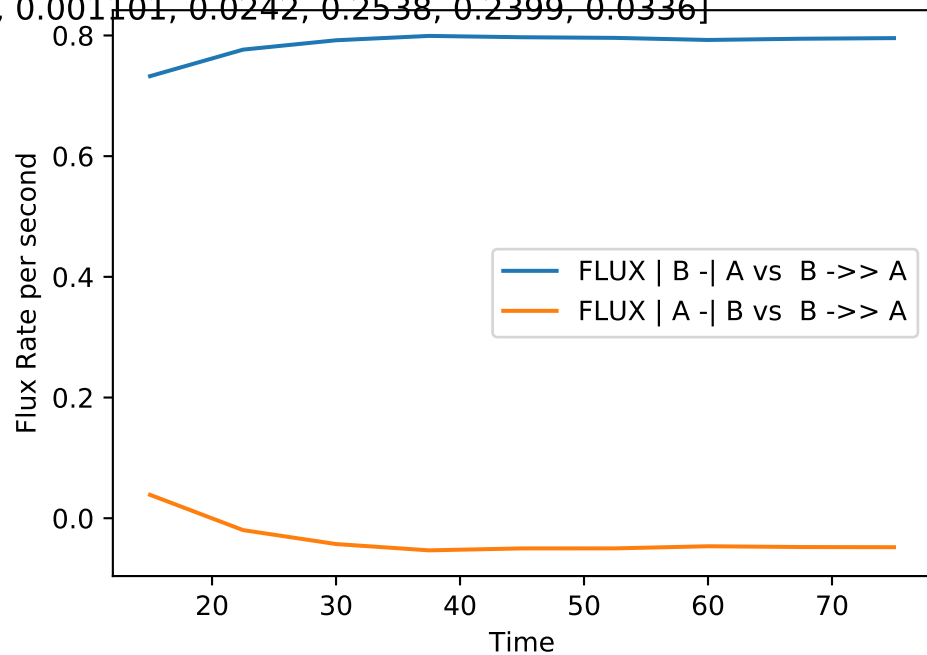
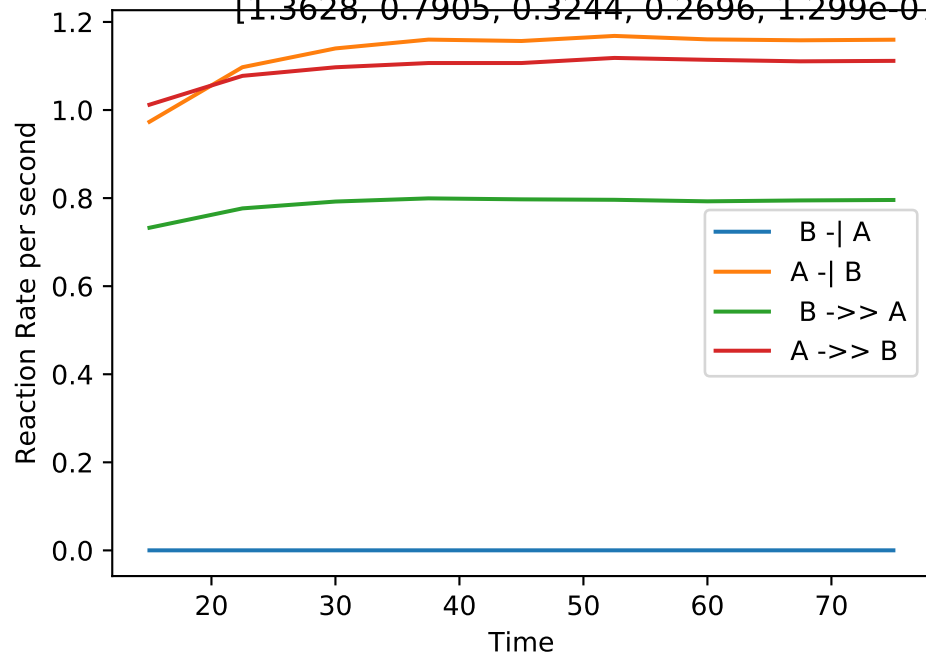
Double_up | MB-LLS Double_up(#396):

[0.0002, 0.5618, 0.2433, 0.3812, 0.001608, 0.0011, 0.0543, 0.2335, 0.3288, 0.0625]



Double_up | MB-LLS Double_up(#397):

[1.3628, 0.7905, 0.3244, 0.2696, 1.299e-07, 0.001101, 0.0242, 0.2538, 0.2399, 0.0336]



Double_up | MB-LLS Double_up(#398):

[0.0000, 1.4515, 0.7930, 0.2011, 0.0009912, 0.0005088, 0.1129, 0.6912, 0.1628, 0.0066]

Reaction Rate per second

3.5
3.0
2.5
2.0
1.5
1.0
0.5

20

30

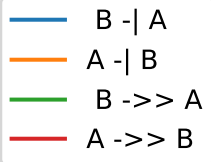
40

50

60

70

Time



Flux Rate per second

2.5
2.0
1.5
1.0
0.5
0.0

20

30

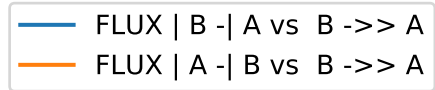
40

50

60

70

Time



Double_up | MB-LLS Double_up(#399):

[1.3633, 1.6157, 0.4612, 0.2317, 4.56e-09, 6.308e-08, 0.0345, 0.3753, 0.1782, 0.0000]

