

01_VAR_N_NC, SR = 0, C = 1, N_samples = 200, lambda = 2.5, CHAIN STRENGTH = 3:

N	NC	# occur.	n_ph.	max len.	solution
3	3	171	46	3	[100010001]100010001100010001
3	4	179	97	5	[100010001]100010001100010001100010001
3	5	47	169	6	[100010001]100010001100010001100010001100010001
3	5	170	185	8	[100010001]100010001100010001100010001100010001
3	6	136	299	9	[100010001]100010001100010001100010001100010001100010001
3	7	102	435	11	[100010001]1000100011000100011000100011000100011000100011000100010001
3	8	95	572	12	[100010001]1000100011000100011000100011000100011000100011000100010001100010001
4	3	56	145	6	[1000010000100001]10000100001000011000010000100001
4	4	47	304	8	[1000010000100001]1000010000100001100001000010000110000100001000010000100001
4	5	14	637	14	[1000010000100001]100001000010000110000100001000011000010000100001000010000100001
4	6	1	929	17	[1000010000100001]10000100001000111000010000100001100001101000001100001000010000110000100001
4	6	10 / 1000	875	15	[1000010000100001]100001000010000110000100001000011000010000100001000010000100001
4	7	1 / 1000	1456	21	[1000010000100001]1000010000100001100001000010000110000100001000010000100001000010000100001
5	3	1	345	9	[1000001000001000001000001]1000001000001000001000001100000100000100000010000001
5	4	1	792	15	[1000001000001000001000001]10010000000010001000000011000001000001000000100000010000001
5	5	1	1472	21	[1000001000001000001000001]100000000100100000100100010000100001000

					<div>000100000100100010000000010010100010110001000000001001000000 001000</div> <div>or</div> <div>[1000001000001000001000001]01000 1000000100000100000110000010 000010000010000110100000000001001001000001000000100010100000 1000001</div>
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02_VAR_SR, $N = 4$, $NC = 4$, $C = 1$, $N_samples = 200$, $\lambda = 2.5$, CHAIN STRENGTH = 3:

SR	# occur.	n_ph.	max len.	solution
0	47	304	8	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1
0.025	21	291	8	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1
0.05	91	321	9	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1
0.1	36	328	10	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1
0.15	2	323	9	[1 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1] 1 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 1 1 0 0 0 0 0 1 0 0 0 0 0
0.15	3	332	9	[1 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1] 1 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0
0.2	2	343	10	[1 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1] 0 0 1 0 1 0 0 0 0 0 0 0 1 0 1 0 0 1 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1
0.25	1	313	9	[1 0 0 0 0 1 0 0 0 0 0 1 0 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1

02_VAR_SR, N = 4, NC = 4, C = 1, N_samples = **1000**, lambda = 2.5, CHAIN STRENGTH = 3:

SR	# occur.	n_ph.	max len.	solution
0	528	319	9	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1
0.025	156	333	10	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1
0.05	324	302	8	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1
0.1	133	340	10	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1
0.15	1	347	11	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 1 0 0 1 0 0 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 1 1 0 0 0 0 0 1 0 0 1 0 0
0.15	5	317	9	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 0 1 0 0 0 0 0 1 0 1 0 0 1 0 0 0 0 0 0 1 0 0 0 0 0 1 0 1 0 0 1 0 0 0 0 0 0 1 0 0 1 0 0 0 0 0 0 1 0 0
0.2	6	304	8	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 0 0 0 1 0 0 1 0 1 0 0 0 0 1 0 0 1 0 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1 0 0 1
0.25	39	316	9	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1

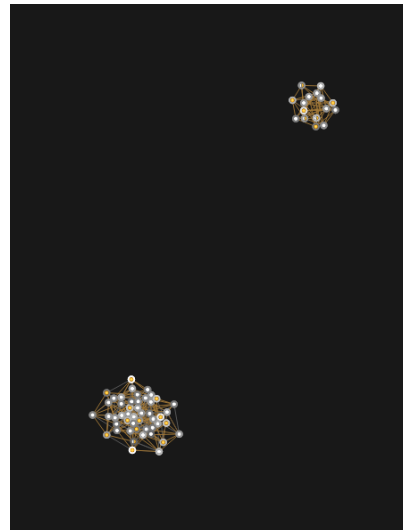
03_VAR_C, N = 4, NC = 4, SR = 0, N_samples = 200, lambda = 2.5, CHAIN STRENGTH = 3:

C	# occur.	n_ph.	max len.	solution
0.5	1	336	10	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 1 1 0 0 0 0 0 1 0 0 1 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1
0.6	6	291	8	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1
0.75	9	341	10	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1
0.9	37	314	9	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1
1	47	304	8	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1

03_VAR_C, N = 4, NC = 5, SR = 0, N_samples = 200, lambda = 2.5, CHAIN STRENGTH = 3:

C	# occur.	n_ph.	max len.	solution
0.5	1	564	12	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 0 0 0 1 1 0 0 0 0 0 1 0 0 1 0 0
0.6	1	546	13	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 1 0 0 1 0 0 1 0 0 1 0 0 0 0 0 0 1
0.75	2	599	13	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1
0.9	33	529	14	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1
1	14	637	14	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1
1	1	570	12	[1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1] 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1 1 0 0 0 0 1 0 0 0 0 1 0 0 0 0 1

Logical force-directed qubit graph for C = 0.5:



04_VAR_C_SR, N=4, NC=4, N_samples = 200, lambda = 2.5, CHAIN STRENGTH = 3:

SR	C	# occur.	n_ph.	max len.	solution
0.05	0.5	1	307	9	[1000010000100001]10000100001000011000010000100001100001 0000100001
0.05	0.6	4	318	9	[1000010000100001]10000100001000011000010000100001100001 0000100001
0.05	0.75	13	328	9	[1000010000100001]10000100001000011000010000100001100001 0000100001
0.05	0.9	35	341	11	[1000010000100001]10000100001000011000010000100001100001 0000100001
0.05	1.0	91	321	9	[1000010000100001]10000100001000011000010000100001100001 0000100001
0.1	0.5	1	329	9	[1000010000100001]10000100001000011000010000100001000101 0000101000
0.1	0.5	9 / 1000	310	9	[1000010000100001]10000100001000011000010000100001100001 0000100001
0.1	0.6	55	295	8	[1000010000100001]10000100001000011000010000100001100001 0000100001
0.1	0.75	46	309	9	[1000010000100001]10000100001000011000010000100001100001 0000100001
0.1	0.9	17	331	9	[1000010000100001]10000100001000011000010000100001100001 0000100001
0.1	1.0	36	328	10	[1000010000100001]10000100001000011000010000100001100001 0000100001
0.15	0.5	3	329	9	[1000010000100001]01001000001000010100100000100001000101 0000101000
0.15	0.5	21/1000	316	9	[1000010000100001]00011000001001000100100000100001010010

					0000100001
0.15	0.6	8	331	9	[1000010000100001]01001000001000011000010000100001100001 0000100001
0.15	0.6	1/1000	336	10	[1000010000100001]01001000001000011000010000100001100001 0000100001
0.15	0.75	2	338	10	[1000010000100001]10000100001000011000001001000001010010 0000100001
0.15	0.75	14 / 1000	336	10	[1000010000100001]00010100001010000001100000100100000110 0000100100
0.15	0.9	9	290	9	[1000010000100001]00010100001010000001100000100100100000 0100100100
0.15	0.9	1 / 1000	327	10	[1000010000100001]00010100001010000001100000100100100000 0100100100
0.15	1.0	1	361	11	[1000010000100001]10000001001001000100100000100001000110 0000100100
0.15	1.0	23 / 1000	316	9	[1000010000100001]10000001001001000100100000100001000110 0000100100