

Table: Winding number w_C of the third pulse C in the 3-pulse 3QMAS sequence applied to a spin $I = 3/2$ system. The winding number w_A of the first pulse A is zero. The desired antiecho coherence transfer pathway is $0Q \rightarrow 3Q \rightarrow 1Q \rightarrow -1Q$. The column p_{AB} is the coherence order between the pulses A and B . The column p_{BC} is the coherence order between the pulses B and C . Grey cell means no value for w_C . T means the 22 values from 1 to 22 for w_C are allowed.

		winding number w_B of the second pulse B																						
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
-3	-3	11	22	10	21	9	20	8	19	7	18	6	17	5	16	4	15	3	14	2	13	1	12	
	-2	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
	-1	21	19	17	15	13	11	9	7	5	3	1	22	20	18	16	14	12	10	8	6	4	2	
	0	18	13	8	3	21	16	11	6	1	19	14	9	4	22	17	12	7	2	20	15	10	5	
	1																							
	2	7	14	21	5	12	19	3	10	17	1	8	15	22	6	13	20	4	11	18	2	9	16	
-2	3	4	8	12	16	20	1	5	9	13	17	21	2	6	10	14	18	22	3	7	11	15	19	
	-3	17	11	5	22	16	10	4	21	15	9	3	20	14	8	2	19	13	7	1	18	12	6	
	-2	7	14	21	5	12	19	3	10	17	1	8	15	22	6	13	20	4	11	18	2	9	16	
	-1	10	20	7	17	4	14	1	11	21	8	18	5	15	2	12	22	9	19	6	16	3	13	
	0	19	15	11	7	3	22	18	14	10	6	2	21	17	13	9	5	1	20	16	12	8	4	
	1																							
-1	2	6	12	18	1	7	13	19	2	8	14	20	3	9	15	21	4	10	16	22	5	11	17	
	3	15	7	22	14	6	21	13	5	20	12	4	19	11	3	18	10	2	17	9	1	16	8	
	-3	15	7	22	14	6	21	13	5	20	12	4	19	11	3	18	10	2	17	9	1	16	8	
	-2	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
	-1	20	17	14	11	8	5	2	22	19	16	13	10	7	4	1	21	18	15	12	9	6	3	
	1																							
0	2	5	10	15	20	2	7	12	17	22	4	9	14	19	1	6	11	16	21	3	8	13	18	
	3	3	6	9	12	15	18	21	1	4	7	10	13	16	19	22	2	5	8	11	14	17	20	
	-3	6	12	18	1	7	13	19	2	8	14	20	3	9	15	21	4	10	16	22	5	11	17	
	-2																							
	-1	11	22	10	21	9	20	8	19	7	18	6	17	5	16	4	15	3	14	2	13	1	12	
	0	21	19	17	15	13	11	9	7	5	3	1	22	20	18	16	14	12	10	8	6	4	2	
1	1																							
	2	4	8	12	16	20	1	5	9	13	17	21	2	6	10	14	18	22	3	7	11	15	19	
	3	14	5	19	10	1	15	6	20	11	2	16	7	21	12	3	17	8	22	13	4	18	9	
	-3	12	1	13	2	14	3	15	4	16	5	17	6	18	7	19	8	20	9	21	10	22	11	
	-2	8	16	1	9	17	2	10	18	3	11	19	4	12	20	5	13	21	6	14	22	7	15	
	-1																							
2	0	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
	1																							
	2	3	6	9	12	15	18	21	1	4	7	10	13	16	19	22	2	5	8	11	14	17	20	
	3	2	4	6	8	10	12	14	16	18	20	22	1	3	5	7	9	11	13	15	17	19	21	
	-3	18	13	8	3	21	16	11	6	1	19	14	9	4	22	17	12	7	2	20	15	10	5	
	-2	16	9	2	18	11	4	20	13	6	22	15	8	1	17	10	3	19	12	5	21	14	7	
3	-1	12	1	13	2	14	3	15	4	16	5	17	6	18	7	19	8	20	9	21	10	22	11	
	0																							
	1	2	4	6	8	10	12	14	16	18	20	22	1	3	5	7	9	11	13	15	17	19	21	
	2	13	3	16	6	19	9	22	12	2	15	5	18	8	21	11	1	14	4	17	7	20	10	
	-3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
	-2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
3	-1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
	1	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	T	
	2	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	
	3	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	