TABLE 4.8: Clebsch-Gordan coefficients. (A square root sign is understood for every entry; the minus sign, if present, goes *outside* the radical.)

1/2 × 1/2

	1	0
$+1/2\ +1/2$	1	
$+1/2\ -1/2$	$1/2$	$1/2$
$-1/2\ +1/2$	$1/2$	$-1/2$
$-1/2\ -1/2$	1	

1 × 1/2

	$3/2$	$1/2$
$+1\ +1/2$	1	
$+1\ -1/2$	$1/3$	$2/3$
$0\ +1/2$	$2/3$	$-1/3$
$0\ -1/2$	$2/3$	$1/3$
$-1\ +1/2$	$1/3$	$-2/3$
$-1\ -1/2$	1	

2 × 1/2

	$5/2$	$3/2$
$+2\ 1/2$	1	
$+2\ -1/2$	$1/5$	$4/5$
$+1\ +1/2$	$4/5$	$-1/5$
$+1\ -1/2$	$2/5$	$3/5$
$0\ +1/2$	$3/5$	$-2/5$
$0\ -1/2$	$3/5$	$2/5$
$-1\ +1/2$	$2/5$	$-3/5$
$-1\ -1/2$	$4/5$	$1/5$
$-2\ +1/2$	$1/5$	$-4/5$
$-2\ -1/2$	1	

3/2 × 1/2

	2	1
$+3/2\ +1/2$	1	
$+3/2\ -1/2$	$1/4$	$3/4$
$+1/2\ +1/2$	$3/4$	$-1/4$
$+1/2\ -1/2$	$1/2$	$1/2$
$-1/2\ +1/2$	$1/2$	$-1/2$
$-1/2\ -1/2$	$3/4$	$1/4$
$-3/2\ +1/2$	$1/4$	$-3/4$
$-3/2\ -1/2$	1	

1 × 1

	2	1	0
$+1\ +1$	1		
$+1\ 0$	$1/2$	$1/2$	
$0\ +1$	$1/2$	$-1/2$	
$+1\ -1$	$1/6$	$1/2$	$1/3$
$0\ 0$	$2/3$	0	$-1/3$
$-1\ +1$	$1/6$	$-1/2$	$1/3$
$0\ -1$	$1/2$	$1/2$	
$-1\ 0$	$1/2$	$-1/2$	
$-1\ -1$	1		

2 × 1

	3	2	1
$+2\ +1$	1		
$+2\ 0$	$1/3$	$2/3$	
$+1\ +1$	$2/3$	$-1/3$	
$+2\ -1$	$1/15$	$1/3$	$3/5$
$+1\ 0$	$8/15$	$1/6$	$-3/10$
$0\ +1$	$6/15$	$-1/2$	$1/10$
$+1\ -1$	$1/5$	$1/2$	$3/10$
$0\ 0$	$3/5$	0	$-2/5$
$-1\ +1$	$1/5$	$-1/2$	$3/10$
$0\ -1$	$6/15$	$1/2$	$1/10$
$-1\ 0$	$8/15$	$-1/6$	$-3/10$
$-2\ +1$	$1/15$	$-1/3$	$3/5$
$-1\ -1$	$2/3$	$1/3$	
$-2\ 0$	$1/3$	$-2/3$	
$-2\ -1$	1		

3/2 × 1

	2	1	0
$+3/2\ +1$	1		
$+3/2\ 0$	$2/5$	$3/5$	
$+1/2\ +1$	$3/5$	$-2/5$	
$+3/2\ -1$	$1/10$	$2/5$	$1/2$
$+1/2\ 0$	$3/5$	$1/15$	$-1/3$
$-1/2\ +1$	$3/10$	$-8/15$	$1/6$
$+1/2\ -1$	$3/10$	$8/15$	$1/6$
$-1/2\ 0$	$3/5$	$-1/15$	$-1/3$
$-3/2\ +1$	$1/10$	$-2/5$	$1/2$
$-1/2\ -1$	$3/5$	$2/5$	
$-3/2\ 0$	$2/5$	$-3/5$	
$-3/2\ -1$	1		