

# Hundova pravila

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S pomočjo treh Hundovih pravil obravnavamo delno napolnjeno  $f$  lupino. Hundova pravila so:

1.  $S = \max$ , pri čemer moramo upoštevati Paulijevo načelo,
2. Pri danem  $S$ ,  $L = \max$ ,
3.  $J = |L - S|$ , če  $N_e \leq D/2$  oz.  $J = L + S$ , če  $N_e > D/2$ .

$n$	$l_z = -3$	-2	-1	0	1	2	3	$S$	$L =  \sum l_z $	$J$	simbol
1	↑							1/2	3	5/2	${}^2F_{5/2}$
2	↑	↑						1	5	4	${}^3H_4$
3	↑	↑	↑					3/2	6	9/2	${}^4I_{9/2}$
4	↑	↑	↑	↑				2	6	4	${}^5I_4$
5	↑	↑	↑	↑	↑			5/2	5	5/2	${}^6H_{5/2}$
6	↑	↑	↑	↑	↑	↑		3	3	0	${}^7F_0$
7	↑	↑	↑	↑	↑	↑	↑	7/2	0	7/2	${}^8S_{7/2}$
8	↑↓	↑	↑	↑	↑	↑	↑	3	3	6	${}^7F_6$
9	↑↓	↑↓	↑	↑	↑	↑	↑	5/2	5	15/2	${}^6H_{15/2}$
10	↑↓	↑↓	↑↓	↑	↑	↑	↑	2	6	8	${}^5I_8$
11	↑↓	↑↓	↑↓	↑↓	↑	↑	↑	3/2	6	15/2	${}^4I_{15/2}$
12	↑↓	↑↓	↑↓	↑↓	↑↓	↑	↑	1	5	6	${}^3H_6$
13	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑	1/2	3	7/2	${}^2F_{7/2}$
14	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	↑↓	0	0	0	${}^7F_0$