

$$\Psi_{1/2,+}^{1/2,+} = \sum_{\substack{i=1,3 \\ \alpha m}} \mu_m^\alpha(\rho) \mathcal{Y}_\alpha^m(\rho)$$

$$= \sum_{\alpha m} \mu_m^\alpha(\rho) \mathcal{B}_{\alpha m}^{1/2,+}(\rho)$$

$$K = l_1 + l_2 + 1/2 m$$

α	l_2	l_1	L	S_{ij}	T_{ij}	S	K_m	K_M
1	0	0	0	1	0	1/2	0	180
2	0	0	0	0	1	1/2	4	180
3	2	0	2	1	0	3/2	2	180
4	0	2	2	1	0	3/2	4	90
$\vdots$	$\vdots$	$\vdots$	$\vdots$	$\vdots$	$\vdots$	$\vdots$	$\vdots$	$\vdots$

channels are included with $l_1 + l_2 = 0, 2, 4, 6, \dots$

AV18 potential

N_c	B	$\langle T \rangle$	R	P_D	P_P
8	7.59267	46.56668	1.7722	8.472	0.0574
14	7.61227	46.67176	1.7701	8.506	0.0655
18	7.61786	46.70604	1.7695	8.511	0.0658
22	7.61809	46.70656	1.7695	8.511	0.0658
26	7.61812	46.70665	1.7695	8.511	0.0658