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Erratum

Triply excited three-electron systems—semiclassical model

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A systematic error has been detected in Tables 2, 4 and 6. Except for the first row in Table 2 all entries in columns 2 and 7 refer to single electron energies, instead of the system ones and should be multiplied by factor 3. The corrected tables are given below.

Table 2. Rovibronic spectrum for H^{2-} dianion. All quantities are in atomic units. $L_{\max}$ is the system maximum angular momentum quantum number, E_0 is the zero-order system energy, ω and m are the vibrational angular frequencies and quantum numbers, respectively, and $E_{\rm tot}$ is the system total energy. Number in parenthesis after a number denotes the power of 10 by which the number is to be multiplied.

$L_{\max}$	$-E_0$	ω_ϕ	ω_θ	m_ϕ	m_θ	$-E_{\rm tot}$
1	1.072	2.359	2.198	-	-	1.072
2	3.858(−1)	5.095(−1)	4.748(−1)	-	-	3.858(−1)
3	1.969(−1)	1.857(−1)	1.73(−1)	-	-	1.969(−1)
4	1.191(−1)	8.735(−2)	8.141(−2)	-	-	1.191(−1)
5	7.971(−2)	4.784(−2)	4.459(−2)	-	-	7.971(−2)
6	5.709(−2)	2.899(−2)	2.701(−2)	-	-	5.709(−2)
50	9.456(−4)	6.181(−5)	5.761(−5)	0	0	7.665(−4)
150	1.065(−4)	2.254(−6)	2.176(−6)	0	0	9.981(−5)
150	1.065(−4)	2.254(−6)	2.176(−6)	1	0	9.306(−5)
150	1.065(−4)	2.254(−6)	2.176(−6)	0	1	9.327(−5)
150	1.065(−4)	2.254(−6)	2.176(−6)	1	1	8.652(−5)
250	3.843(−5)	4.889(−7)	4.720(−7)	0	0	3.699(−5)
250	3.843(−5)	4.889(−7)	4.720(−7)	1	0	3.552(−5)
250	3.843(−5)	4.889(−7)	4.720(−7)	0	1	3.558(−5)
250	3.843(−5)	4.889(−7)	4.720(−7)	1	1	3.441(−5)
250	3.843(−5)	4.889(−7)	4.720(−7)	2	1	3.264(−5)
250	3.843(−5)	4.889(−7)	4.720(−7)	1	2	3.270(−5)
250	3.843(−5)	4.889(−7)	4.720(−7)	2	2	3.123(−5)

Table 4. The same as in Table 2 for the rovibronic spectrum for He^- anion.

L_{max}	$-E_0$	ω_ϕ	ω_θ	m_ϕ	m_θ	$-E_{tot}$
1	12.144	-	-	-	-	12.144
2	4.371	-	-	-	-	4.371
3	2.230	-	-	-	-	2.230
4	1.349	-	-	-	-	1.349
5	9.033(−1)	-	-	-	-	9.033(−1)
150	1.206(−3)	1.627(−5)	1.901(−5)	0	0	1.153(−3)
400	1.703(−4)	1.045(−6)	1.009(−6)	0	0	1.672(−4)
400	1.703(−4)	1.045(−6)	1.009(−6)	1	0	1.641(−4)
400	1.703(−4)	1.045(−6)	1.009(−6)	0	1	1.642(−4)
400	1.703(−4)	1.045(−6)	1.009(−6)	1	1	1.611(−4)

Table 6. The same as in Table 2 for the rovibronic spectrum for Li atom.

L_{max}	$-E_0$	ω_θ	ω_ϕ	m_θ	m_ϕ	$-E_{tot}$
1	3.522(+1)	-	-	-	-	3.522(+1)
2	1.267(+1)	-	-	-	-	1.267(+1)
3	6.468	-	-	-	-	6.468
4	3.912	-	-	-	-	3.912
5	2.620	-	-	-	-	2.620
100	7.845(−3)	1.737(−4)	1.779(−4)	0	0	7.317(−3)
250	1.263(−3)	1.122(−5)	1.149(−5)	0	0	1.228(−3)
250	1.263(−3)	1.122(−5)	1.149(−5)	1	0	1.195(−3)
250	1.263(−3)	1.122(−5)	1.149(−5)	0	1	1.194(−3)
250	1.263(−3)	1.122(−5)	1.149(−5)	1	1	1.160(−3)
500	3.162(−4)	1.407(−6)	1.440(−6)	0	0	3.120(−4)
500	3.162(−4)	1.407(−6)	1.440(−6)	1	0	3.075(−4)
500	3.162(−4)	1.407(−6)	1.440(−6)	0	1	3.078(−4)
500	3.162(−4)	1.407(−6)	1.440(−6)	1	1	3.033(−4)
500	3.162(−4)	1.407(−6)	1.440(−6)	2	2	2.948(−4)