'He Benchmark with AV8'

TABLE I. The expectation values $\langle T \rangle$ and $\langle V \rangle$ of kinetic and potential energies, the binding energies E_b in MeV, and the radius in fm.

Method	$\langle T \rangle$	$\langle V \rangle$	E_b	$\sqrt{\langle r^2 \rangle}$
FY	102.39(5)	−128.33(10)	−25.94(5)	1.485(3)
CRCGV	102.30	−128.20	−25.90	1.482
SVM	102.35	−128.27	−25.92	1.486
HH	102.44	−128.34	−25.90(1)	1.483
GFMC	102.3(1.0)	−128.25(1.0)	−25.93(2)	1.490(5)
NCSM	103.35	−129.45	−25.80(20)	1.485
→ EIHH	100.8(9)	−126.7(9)	−25.944(10)	1.486

FY: H. Kamada, A. Nogga, W. Glöckle
CRCGV: E. Hiyama, M. Kamimura
SVM: K. Varga, Y. Suzuki
HH: M. Viviani, A. Kievsky, S. Rosati
GFMC: J. Carlson, S.C. Pieper, R.B. Wiringa
NCSM: P. Navrátil, B.R. Barrett
EIHH: N. Barnea, W.L., G. Orlandini

TABLE IV. Probabilities of total orbital angular momentum components in %.

Method	S wave	P wave	D wave
FY	85.71	0.38	13.91
CRCGV	85.73	0.37	13.90
SVM	85.72	0.368	13.91
HH	85.72	0.369	13.91
NCSM	86.73	0.29	12.98
EIHH	85.73(2)	0.370(1)	13.89(1)