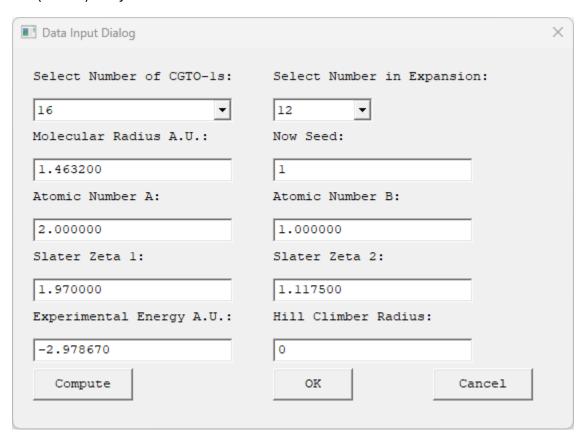
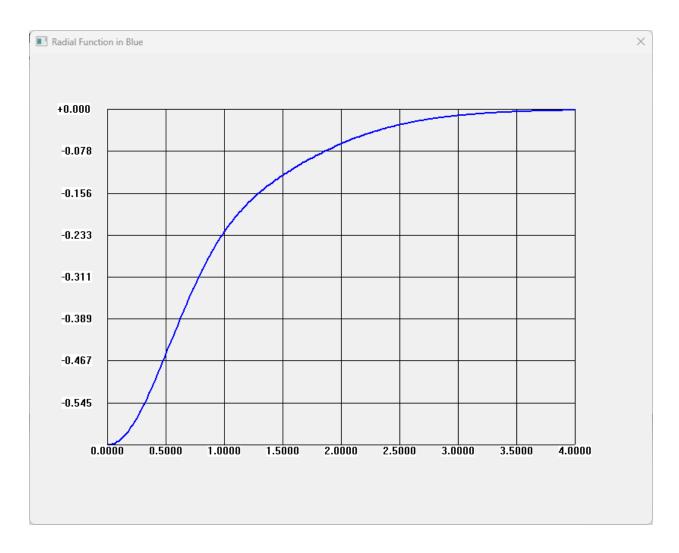
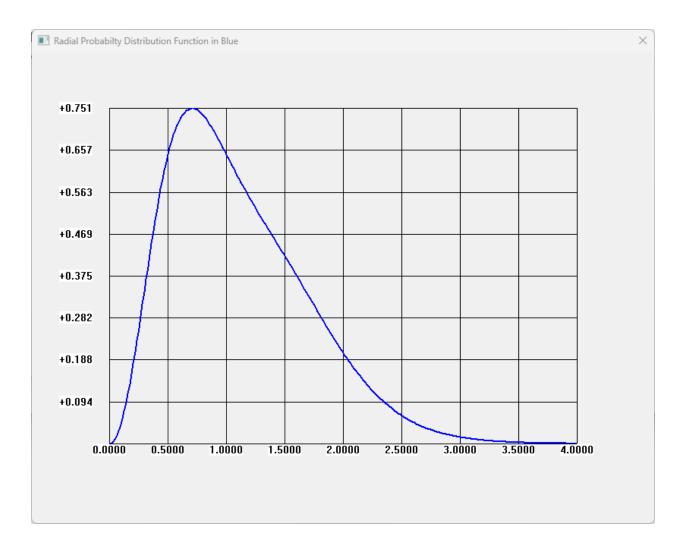
Blog Entry © Sunday, August 24, 2025, by James Pate Williams, Jr. Corrections to New Quantum Chemical Total Molecular Ground-State Energies for the Helium Hydride Cation (a Hetero Nuclear molecule) and the Hydrogen Molecule (a Homo Nuclear Molecule)

The first four pages are for helium hydride also known as the helium-hydrogen molecular ion (cation) or hydro-helium:







```
Tabular Data
                                                                                                            ×
Coefficient Exponent
-0.2973313847 1.5732503608
-0.0886162593 0.4012384272
-0.7498583117 0.7506017658
-0.2195240891 1.7800956781
+0.0323230688 1.5838029656
-0.3720876739 0.2608863793
-0.2670720158 0.4362224893
 -0.2670720158 0.4362224893
-0.4287687746 1.6663274257
+0.0112803175 1.2929422434
       Slater Zeta 1 = 1.9700000000
       Slater Zeta 2 = 1.1175000000
 Electronic Energy = -4.3422295086
      Total Energy = -2.9753623681
         Exp Energy = -2.9786700000
       Percent Error = 0.1110439178
     Runtime Millis = 234
```

The next four pages are for the hydrogen molecule:

