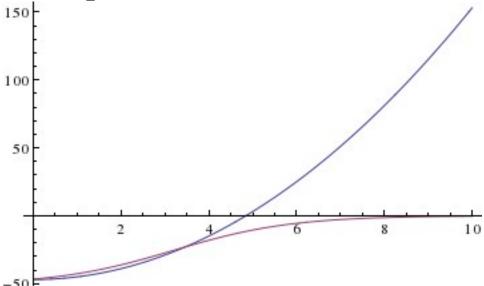
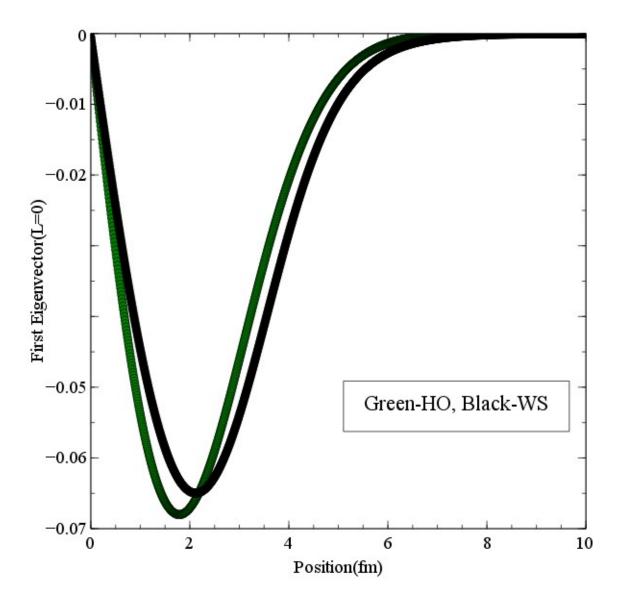
Potentials: HO is in blue: $V_HO = 2 \text{ r}^2-47$

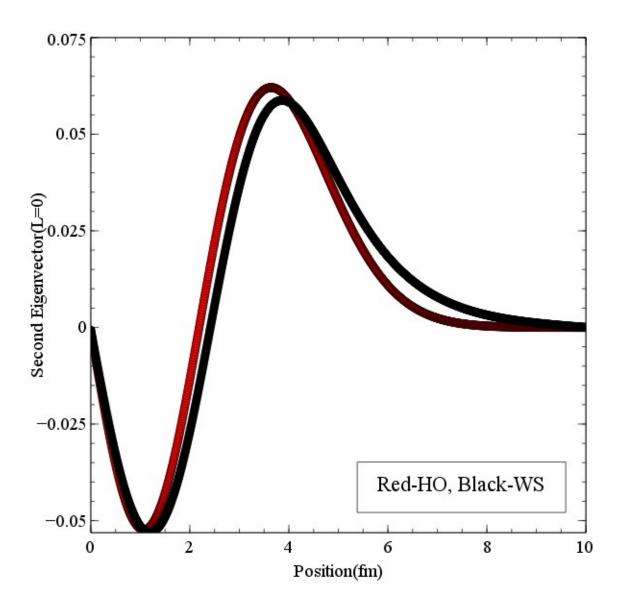


DIAGONALIZATION

For A=16,

L=0, we get two bound states at energies=-31.11 and -4.02 MeV





For L=1, we get one bound state at -16.92 MeV

