2021 - PHY 981 - Homework set 5 (due Feb 21)

- 1. Discussion session on Fridays 2-3 link to zoom link to lecture notes link to nushellx.zip link to toi.zip
- 2. Read Chapters 13-15.
- 3. Use the liquid drop model to calculate the energy of the T=2 state in ^{20}Ne that is the IAS of the ground state of ^{20}O . Compare to experiment.
- 4. Derive Eq. 13.19 for two-particles (n = 2) wavefunctions.
- 5. Derive Eq. 13.21 for two-particles (n = 2) wavefunctions.
- 6. Derive Eq. 13.29.