

PHYSICS 828

Home Work Assignment # 5

2/16/2011

Due: Fri., Feb. 25, 2011.

Completed assignments should be placed in the grader N. Ramalingam's mail box in PRB by 5:00 PM.

Hydrogen Atom

1. Virial Theorem: Shankar Ex. 13.1.5 (p. 359).
2. Shankar Ex. 13.4.1 (p. 371).
3. Shankar Ex. 13.4.2 (p. 371).
4. Shankar Ex. 16.1.5 (p. 435)

Spin

5. Shankar Ex. 12.5.1 (p. 325).
6. Shankar Ex. 14.3.2 (p. 384). [You already did this last quarter!]
7. Shankar Ex. 14.3.4 (p. 384).
8. Shankar Ex. 14.3.8 (p. 385).
9. Shankar Ex. 14.4.3 (p. 396).

Please Note: I may assign one more problem before Feb. 19