

Physics 4610, Quantum Mechanics
Prof. Schroeder
Spring 2018

Review for Test 2

Explain each of the following in as much detail as you can.

1. Momentum-space wavefunction
2. Wavepacket
3. Uncertainty principle
4. Centered-difference method for solving the TDSE

5. Reflection and transmission probabilities

6. Tunneling

7. Principle 1 (states of a system)

8. Principle 2 (observables)

9. Principle 3 (probabilities)

10. Principle 4 (collapse)

11. Principle 5 (time evolution)

12. Plane wave

13. Degeneracy

14. Separable wavefunction

15. Configuration space

16. Entangled state

17. Bosons and fermions

18. Spinor