

Questions of Phys. For Math. Students

1. Speed of light, Michelson_Morley experiment, Ether
2. Einstein's Postulations, Lorentz Transformation,
3. Time Dilatation, Length Contraction, Velocity Transformation
4. Relativistic Momentum, Relativistic Energy, Energy in function of Momentum and Mass
5. Black body radiation. Photoelectric effect, de Broglie wave,
6. Time independent Schrödinger eq. 1D and 3D, Probability of finding
7. Harmonic linear oscillator, Energy spectrum, Step potential,
8. H atom
9. Stern-Gerlach experiment, Pauli law, Periodic table
10. Band structure, Conductor, insulator and semiconductor
11. Different applications of semiconductors

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