

NPTEL Video Lecture Topic List - Created by LinuXpert Systems, Chennai

NPTEL Video Course - Physics - NOC:Foundations of Quantum Theory: Relativistic Approach

Subject Co-ordinator - Prof. Kinjalk Lochan

Co-ordinating Institute - IISER Mohali

Sub-Titles - Available / Unavailable | MP3 Audio Lectures - Available / Unavailable

Lecture 1 - Perturbation theory 1.1
Lecture 2 - Perturbation theory 1.2
Lecture 3 - Perturbation theory 1.3
Lecture 4 - Perturbation theory 1.4
Lecture 5 - Time dependent perturbation theory 1.1
Lecture 6 - Time dependent perturbation theory 1.2
Lecture 7 - Time dependent perturbation theory 1.3
Lecture 8 - Special Relativity 1.1
Lecture 9 - Special Relativity 1.2
Lecture 10 - Special Relativity 1.3
Lecture 11 - Relativistic Quantum Mechanics 1.1
Lecture 12 - Relativistic Quantum Mechanics 1.2
Lecture 13 - Relativistic Quantum Mechanics 1.3
Lecture 14 - Relativistic Quantum Mechanics 1.4
Lecture 15 - Quantum Field Theory 1.1
Lecture 16 - Quantum Field Theory 1.2
Lecture 17 - Quantum Field Theory 1.3
Lecture 18 - Quantum Field Theory 1.4
Lecture 19 - Quantum Field Theory 2.1
Lecture 20 - Quantum Field Theory 2.2
Lecture 21 - Quantum Field Theory 2.3
Lecture 22 - Spinor Field quantization 1.1
Lecture 23 - Spinor Field quantization 1.2
Lecture 24 - Spinor Field quantization 1.3
Lecture 25 - Spinor Field quantization 1.4
Lecture 26 - Electromagnetic Field Quantization 1.1
Lecture 27 - Electromagnetic Field Quantization 1.2
Lecture 28 - Electromagnetic Field Quantization 1.3
Lecture 29 - Quantum Fields expectation

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- Lecture 30 - Quantum Field Coherent State
- Lecture 31 - Thermal Fields 1.1
- Lecture 32 - Thermal Fields 1.2
- Lecture 33 - Matter-Field interaction 1.1
- Lecture 34 - Matter-Field interaction 1.2
- Lecture 35 - Matter-Field interaction 1.3
- Lecture 36 - Atom-Field Coupling
- Lecture 37 - Excitation of atom through field interaction
- Lecture 38 - Spontaneous and Stimulated emission
- Lecture 39 - Lindblad Master Equation
- Lecture 40 - Relativistic corrections in transitions
- Lecture 41 - Change in atomic characteristics via field interaction
- Lecture 42 - Shift in eigen energies via field interaction