

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

NPTEL Video Course - Physics - Quantum Field Theory

Subject Co-ordinator - Dr. Prasanta Tripathy

Co-ordinating Institute - IIT - Madras

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

Lecture 1 - Introduction
Lecture 2 - Introduction to Classical Field Theory
Lecture 3 - Quantization of Real Scalar Field - I
Lecture 4 - Quantization of Real Scalar Field - II
Lecture 5 - Quantization of Real Scalar Field - III
Lecture 6 - Quantization of Real Scalar Field - IV
Lecture 7 - Quantization of Complex Scalar Field
Lecture 8 - Interacting Field Theory - I
Lecture 9 - Interacting Field Theory - II
Lecture 10 - Interacting Field Theory - III
Lecture 11 - Interacting Field Theory - IV
Lecture 12 - Interacting Field Theory - V
Lecture 13 - Interacting Field Theory - VI
Lecture 14 - Interacting Field Theory - VII
Lecture 15 - Quantization of Electromagnetic Field - I
Lecture 16 - Quantization of Electromagnetic Field - II
Lecture 17 - Fermion Quantization - I
Lecture 18 - Fermion Quantization - II
Lecture 19 - Fermion Quantization - III
Lecture 20 - Fermion Quantization - IV
Lecture 21 - Fermion Quantization - V
Lecture 22 - Fermion Quantization - VI
Lecture 23 - The S-Matrix Expansion in QED - I
Lecture 24 - The S-Matrix Expansion in QED - II
Lecture 25 - Feynman Rules in QED - I
Lecture 26 - Feynman Rules in QED - II
Lecture 27 - Compton Scattering - I
Lecture 28 - Compton Scattering - II
Lecture 29 - Compton Scattering - III

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- Lecture 30 - Moller Scattering - I
- Lecture 31 - Moller Scattering - II
- Lecture 32 - Vertex Correction - I
- Lecture 33 - Vertex Correction - II
- Lecture 34 - Vertex Correction - III
- Lecture 35 - Vertex Correction - IV
- Lecture 36 - Electron Selfenergy
- Lecture 37 - Photon Selfenergy - I
- Lecture 38 - Photon Selfenergy - II