NPTEL Video Course - Physics - NOC:Quantum Technology and Quantum Phenomena in Macroscopic Systems

Subject Co-ordinator - Prof. Amarendra Kumar Sarma

Co-ordinating Institute - IIT - Guwahati

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Lecture 30 - Introduction to Cavity Optomechanics;Fabry-Perot Cavity
Lecture 31 - Cavity Optomechanics: Basic Physics - I
Lecture 32 - Problem Solving Session - 7
Lecture 33 - Cavity Optomechanics: Basic Physics - II
Lecture 34 - Classical Regime - I
Lecture 35 - Classical Regime - II; Classical Langevin Equation
Lecture 36 - Problem Solving Session - 8
Lecture 37 - Langevin Equation
Lecture 38 - Quantum Langevin Noise
Lecture 39 - Problem Solving Session - 9
Lecture 40 - Input-Output Relation
Lecture 41 - Cavity Quantum Optomechanics
Lecture 42 - Linearized Cavity Optomechanics; Ground state cooling
Lecture 43 - Normal-Mode Splitting
Lecture 44 - Quantum Optomechanics: Squeezed States

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