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Momentum.) Jun 2th, 2024

#### 6. Quantum Electrodynamics

6. Quantum Electrodynamics In This Section We finally Get To Quantum Electrodynamics (QED), The Theory Of Light Interacting With Charged Matter. Our Path To Quantization Will Be As Before: We Start With The Free Theory Of The Electromagnetic field And See How The Quantum Th Jun 1th, 2024

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Diagrams, And Generalizes To The Other QFT's Such As Quantum Chromo-dynamics (QCD) And Electroweak Theory. The Basics The Amplitude, M For A Process Can Be Written Down Using The Feynman Rules. The Cross-section, is The Probability Of An Event Happening. The Di Erential Cross-sect Apr 2th, 2024

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And Applied Physics, Yale University, New Haven, Connecticut 06520, USA 2Department Of Phy Jan 1th, 2024

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Quantum Electrodynamics Quantum Theory (QED) Of Electromagnetic Interactions Classical Electromagnetism Forces Arise From Potentials V(r) Act Instantaneously At A Distance QED Picture Forces Described By Exchange Of Virtual Field Quanta - Photons Matrix Element Full Derivation In 2nd Order Perturbation Theory Gives Propagator Term 1/(q2-m2) Mar 1th, 2024

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However,werestrictourselvesinthis Thesis To The Small Phase ('"1) Limit. In That Limit, We Have An Inductance That Is Approximately L J  $\dot{}$  2 0 2  $\dot{}$  I 0 1 + ' 2 + O( $\dot{}$  4) : (1.38) May 1th, 2024

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