# Scattering amplitudes and the Feynman rules

based on S-10

We have found Z( J ) for the "phi-cubed" theory and now we can calculate vacuum expectation values of the time ordered products of any number of fields.

### Let's define exact propagator:

$$\frac{1}{i}\Delta(x_1-x_2) \equiv \langle 0|\mathrm{T}\varphi(x_1)\varphi(x_2)|0\rangle$$
 short notation:  $\delta_j \equiv \frac{1}{i}\frac{\delta}{\delta J(x_j)}$  
$$\langle 0|\mathrm{T}\varphi(x_1)\varphi(x_2)|0\rangle = \delta_1\delta_2Z(J)\big|_{J=0}$$
 
$$= \delta_1\delta_2iW(J)\big|_{J=0} - \delta_1iW(J)\big|_{J=0}\delta_2iW(J)\big|_{J=0}$$
 
$$Z(J) = \exp[iW(J)] = \delta_1\delta_2iW(J)\big|_{J=0} .$$
 
$$\delta_jW(J)|_{J=0} = \langle 0|\varphi(x_j)|0\rangle = 0$$
 W contains diagrams with at least two sources  $\bullet$  + ...

thus we find:

$$\frac{1}{i}\Delta(x_1-x_2) = \frac{1}{i}\Delta(x_1-x_2) + O(g^2)$$

## **Scattering Amplitudes And The Feynman Rules**

Johannes M. Henn, Jan C. Plefka

#### **Scattering Amplitudes And The Feynman Rules:**

Scattering Amplitudes in Gauge Theories Johannes M. Henn, Jan C. Plefka, 2014-02-07 At the fundamental level the interactions of elementary particles are described by quantum gauge field theory. The quantitative implications of these interactions are captured by scattering amplitudes traditionally computed using Feynman diagrams. In the past decade tremendous progress has been made in our understanding of and computational abilities with regard to scattering amplitudes in gauge theories going beyond the traditional textbook approach. These advances build upon on shell methods that focus on the analytic structure of the amplitudes as well as on their recently discovered hidden symmetries. In fact when expressed in suitable variables the amplitudes are much simpler than anticipated and hidden patterns emerge. These modern methods are of increasing importance in phenomenological applications arising from the need for high precision predictions for the experiments carried out at the Large Hadron Collider as well as in foundational mathematical physics studies on the S matrix in quantum field theory. Bridging the gap between introductory courses on quantum field theory and state of the art research these concise yet self contained and course tested lecture notes are well suited for a one semester graduate level course or as a self study guide for anyone interested in fundamental aspects of quantum field theory and its applications. The numerous exercises and solutions included will help readers to embrace and apply the material present ed in the main text.

Scattering Amplitudes in Quantum Field Theory Simon Badger, Johannes Henn, Jan Christoph Plefka, Simone Zoia, 2023-12-31 This open access book bridges a gap between introductory Quantum Field Theory QFT courses and state of the art research in scattering amplitudes It covers the path from basic definitions of QFT to amplitudes which are relevant for processes in the Standard Model of particle physics The book begins with a concise yet self contained introduction to QFT including perturbative quantum gravity It then presents modern methods for calculating scattering amplitudes focusing on tree level amplitudes loop level integrands and loop integration techniques. These methods help to reveal intriguing relations between gauge and gravity amplitudes and are of increasing importance for obtaining high precision predictions for collider experiments such as those at the Large Hadron Collider as well as for foundational mathematical physics studies in QFT including recent applications to gravitational wave physics These course tested lecture notes include numerous exercises with solutions Requiring only minimal knowledge of QFT they are well suited for MSc and PhD students as a preparation for research projects in theoretical particle physics They can be used as a one semester graduate level course or as a self study guide for researchers interested in fundamental aspects of quantum field theory Scattering Amplitudes in Gauge Theory and Gravity Henriette Elvang, Yu-tin Huang, 2015-02-05 Providing a comprehensive pedagogical introduction to scattering amplitudes in gauge theory and gravity this book is ideal for graduate students and researchers It offers a smooth transition from basic knowledge of quantum field theory to the frontier of modern research Building on basic quantum field theory the book starts with an introduction to the spinor helicity formalism in the context of Feynman rules for tree level amplitudes The material covered includes on shell recursion relations superamplitudes symmetries of N 4 super Yang Mills theory twistors and momentum twistors Grassmannians and polytopes The presentation also covers amplitudes in perturbative supergravity 3D Chern Simons matter theories and color kinematics duality and its connection to gravity gauge theory x gauge theory Basic knowledge of Feynman rules in scalar field theory and quantum electrodynamics is assumed but all other tools are introduced as needed Worked examples demonstrate the techniques discussed and over 150 exercises help readers absorb Relativistic Quantum Mechanics Armin Wachter, 2010-09-29 Which problems do arise within and master the material relativistic enhancements of the Schr dinger theory especially if one adheres to the usual one particle interpretation To what extent can these problems be overcome What is the physical necessity of quantum field theories In many textbooks only insufficient answers to these fundamental questions are provided by treating the relativistic quantum mechanical one particle concept very superficially and instead introducing field quantization as soon as possible By contrast this book emphasizes particularly this point of view relativistic quantum mechanics in the narrow sense it extensively discusses the relativistic one particle view and reveals its problems and limitations therefore illustrating the necessity of quantized fields in a physically comprehensible way The first two chapters contain a detailed presentation and comparison of the Klein Gordon and Dirac theory always with a view to the non relativistic theory. In the third chapter we consider relativistic scattering processes and develop the Feynman rules from propagator techniques This is where the indispensability of quantum field theory reasoning becomes apparent and basic quantum field theory concepts are introduced This textbook addresses undergraduate and graduate Physics students who are interested in a clearly arranged and structured presentation of relativistic quantum mechanics in the narrow sense and its connection to quantum field theories Each section contains a short summary and exercises with solutions A mathematical appendix rounds out this excellent textbook on relativistic quantum mechanics

Handbook of Quantum Gravity Cosimo Bambi, Leonardo Modesto, Ilya Shapiro, 2024-12-03 The search for a theory of quantum gravity is one of the most important and fascinating problems in modern theoretical physics While we do not have yet a complete theory of quantum gravity significant advancements have been done in the past decades In this handbook every section is dedicated to a specific approach towards a theory of quantum gravity and is edited by the leading experts in the field This book represents both a valuable resource for graduate students and an important reference for researchers in quantum gravity — Quantum Field Theory for Mathematicians Robin Ticciati, 1999-06-13 This should be a useful reference for anybody with an interest in quantum theory — Elementary Particle Physics John Iliopoulos, Theodore N.

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