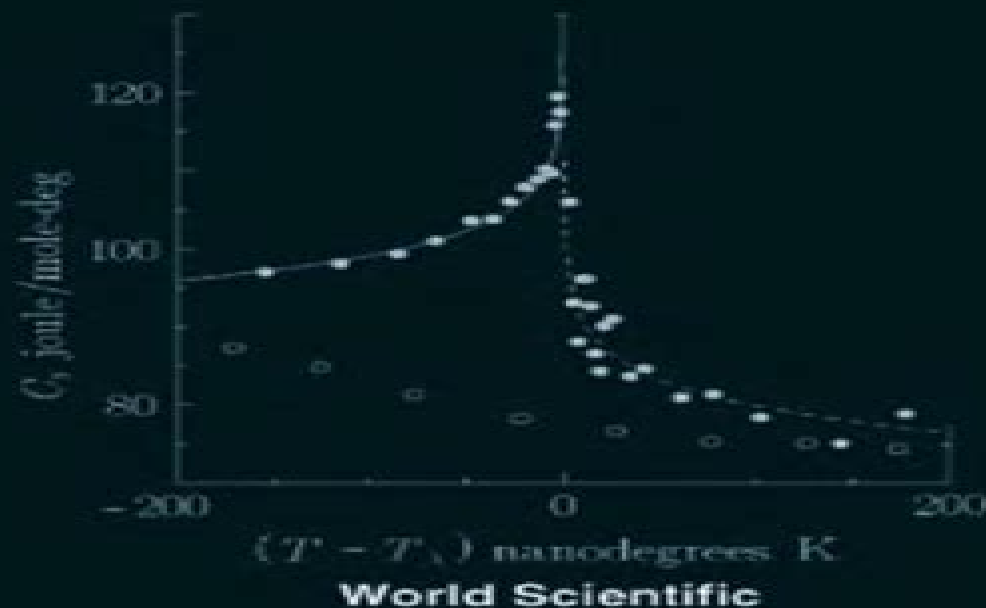


# Critical Properties of $\Phi^4$ - Theories

Hagen Kleinert  
Verena Schulte-Frohlinde



# Critical Properties Of O4 Theories

**Michael Hoelscher**



## **Critical Properties Of $\phi^4$ Theories:**

*Critical Properties Of  $\phi^4$ - Theories* Hagen Kleinert, Verena Schulte-frohlinde, 2001-07-30 This book explains in detail how to perform perturbation expansions in quantum field theory to high orders and how to extract the critical properties of the theory from the resulting divergent power series These properties are calculated for various second order phase transitions of three dimensional systems with high accuracy in particular the critical exponents observable in experiments close to the phase transition Beginning with an introduction to critical phenomena this book develops the functional integral description of quantum field theories their perturbation expansions and a method for finding recursively all Feynman diagrams to any order in the coupling strength Algebraic computer programs are supplied on accompanying World Wide Web pages The diagrams correspond to integrals in momentum space They are evaluated in 4 dimensions where they possess pole terms in  $\epsilon$  The pole terms are collected into renormalization constants The theory of the renormalization group is used to find the critical scaling laws They contain critical exponents which are obtained from the renormalization constants in the form of power series These are divergent due to factorially growing expansion coefficients The evaluation requires resummation procedures which are performed in two ways 1 using traditional methods based on Padé and Borel transformations combined with analytic mappings 2 using modern variational perturbation theory where the results follow from a simple strong coupling formula As a crucial test of the accuracy of the methods the critical exponent governing the divergence of the specific heat of superfluid helium is shown to agree very well with the extremely precise experimental number found in the space shuttle orbiting the earth whose data are displayed on the cover of the book The  $\phi^4$  theories investigated in this book contain any number  $N$  of fields in an  $O(N)$  symmetric interaction or in an interaction in which  $O(N)$  symmetry is broken by a term of a cubic symmetry The crossover behavior between the different symmetries is investigated In addition alternative ways of obtaining critical exponents of  $\phi^4$  theories are sketched such as variational perturbation expansions in three rather than 4 dimensions and improved ratio tests in high temperature expansions of lattice models

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laws They contain critical exponents which are obtained from the renormalization constants in the form of power series These are divergent due to factorially growing expansion coefficients The evaluation requires resummation procedures which are performed in two ways 1 using traditional methods based on Pad and Borel transformations combined with analytic mappings 2 using modern variational perturbation theory where the results follow from a simple strong coupling formula As a crucial test of the accuracy of the methods the critical exponent governing the divergence of the specific heat of superfluid helium is shown to agree very well with the extremely precise experimental number found in the space shuttle orbiting the earth whose data are displayed on the cover of the book The  $\phi^4$  theories investigated in this book contain any number  $N$  of fields in an  $O(N)$  symmetric interaction or in an interaction in which  $O(N)$  symmetry is broken by a term of a cubic symmetry The crossover behavior between the different symmetries is investigated In addition alternative ways of obtaining critical exponents of  $\phi^4$  theories are sketched such as variational perturbation expansions in three rather than 4 dimensions and improved ratio tests in high temperature expansions of lattice models

Uncovering Quantum Field Theory and the Standard Model Wolfgang Bietenholz, Uwe-Jens Wiese, 2025-01-02 Ideal for graduate courses on quantum field theory and the Standard Model and as a reference for experienced researchers

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**A Modern Approach to Critical Phenomena** Igor Herbut, 2007-01-04 Critical phenomena is one of the

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Wadia, 1993 This book contains an edited comprehensive collection of reprints on the subject of the large N limit as applied to a wide spectrum of problems in quantum field theory and statistical mechanics The topics include 1 Spin Systems 2 Large N Limit of Gauge Theories 3 Two Dimensional QCD 4 Exact Results on Planar Perturbation Series and the Nature of the 1 N Series 5 Schwinger Dyson Equations Approach 6 QCD Phenomenological Lagrangians and the Large N Limit 7 Other Approaches to Large N Eguchi Kawai Model Collective Fields and Numerical Methods 8 Matrix Models 9 Two Dimensional Gravity and String Theory

**Introduction to the Theory of Critical Phenomena** Dima I. Uzunov, 2010 This book provides a comprehensive introduction to the theory of phase transitions and critical phenomena The content covers a period of more than 100 years of theoretical research of condensed matter phases and phase transitions providing a clear interrelationship with experimental problems It starts from certain basic University knowledge of thermodynamics statistical physics and quantum mechanics The text is illustrated with classic examples of phase transitions Various types of phase transition and multi critical points are introduced and explained The classic aspects of the theory are naturally related with the modern developments This interrelationship and the field theoretical renormalization group method are presented in details The main applications of the renormalization group methods are presented Special attention is paid to the description of quantum phase transitions This edition contains a more detailed presentation of the renormalization group method and its applications to particular systems

*A Philosophical Approach to Quantum Field Theory* Hans Christian

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