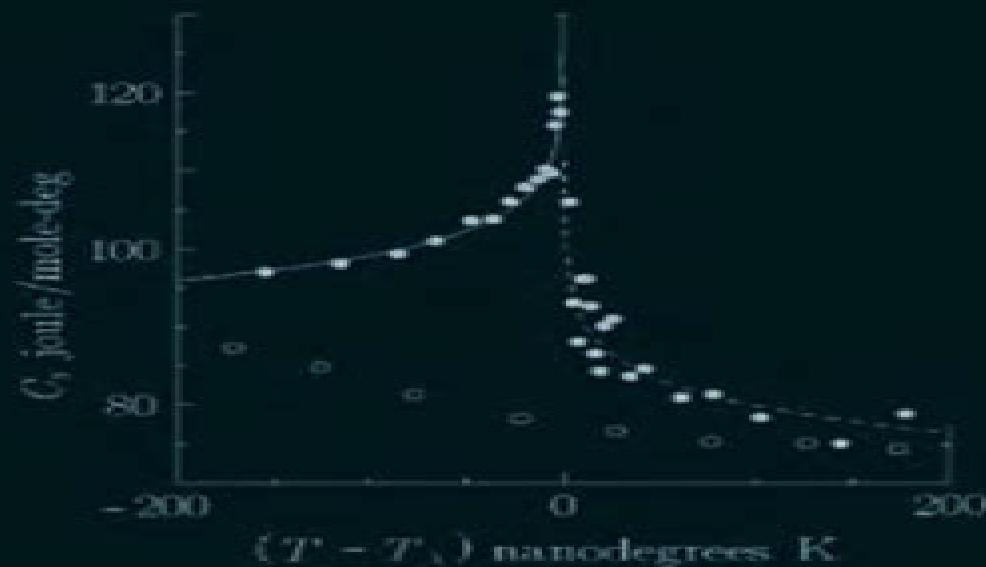


Critical Properties of Φ^4 - Theories

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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 ϕ^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 ϕ^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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The Large N Expansion in Quantum Field Theory and Statistical Physics E. Brzin, Spenta R. 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

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