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Landau theory in physics is a theory  
that Lev Landau introduced in an  
attempt to formulate a general theory  
of continuous (i.e., second-order)

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phase transitions. It can also be adapted to systems under externally-applied fields, and used as a quantitative model for discontinuous (i.e., first-order) transitions.

Landau theory - Wikipedia

Abstract. A phase transition is the

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phenomenon that a many-body system may suddenly change its properties in a rather drastic way due to the change of an externally controllable variable. Familiar examples in everyday life are the transitions from gases to liquids or from liquids to solids, due to for

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example a change in the temperature  
or the pressure.

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Landau theory is an effort to describe  
all phase transitions from various  
fields within physics using a uniform

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approach. This should be independent of which state variable drives the system across a phase boundary, and it should also apply irrespective of what feature of the system is being (dis)ordered (atoms, chemical bonds, magnetic moments...) in the process.

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Landau's theory of phase transitions  
is probably his most general and most  
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Scientific Lecture Notes In Physics)

Paperback – 1 Aug. 1987 by J.C.

Tolédano (Author)

Landau Theory Of Phase Transitions,  
The: Application To ...

Landau theory of second order phase  
transitions. Lev Landau. Normally, to

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calculate thermodynamic properties like the free energy, the entropy, or the specific heat, it is necessary to determine the microscopic states of system by solving the Schrödinger equation. For crystals, the microscopic states are labeled by  $k$  and the solutions of the Schrödinger

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Transitions are typically expressed as a dispersion relation where the energy is given for each  $k$ .

Landau theory of second order phase transitions

Landau theory of phase transitions:  
History. Landau Centenary, APS

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March Meeting, March 18, 2009. 3  
articles published in 1937 in ZhETF  
and Phys. Zs. Sowjet. Theory of phase  
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transitions II Scattering of X-rays in  
crystals near the Curie point. Concept  
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Transitions

LANDAU THEORY OF PHASE

TRANSITIONS from group-theoretical

perspective author: Enej Ilievski

email: enej.ilievski@fmf.uni-lj.si

supervisor: doc. dr. Primož Ziherl

March 11, 2011 Abstract The core idea

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of this seminar is to present the  
Landau phenomenological theory of  
continuous phase transitions from  
the group-theoretical point of view.

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...

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Landau theory is an effective theory of the order parameter. To be precise about it, one first decides what the appropriate order parameter is to describe the phase transition. In one phase, the order parameter is non-vanishing, in another it vanishes. In a ferromagnetic spin system, this very

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naturally is the magnetization  $M$ .

Chapter 7 Landau theory - University  
of Oxford

the Landau theory of phase  
transitions (Tolédano and Tolédano,  
1987). This chapter therefore cannot  
give an ex-haustive description of the

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subject; instead what is intended is a tutorial overview, which gives the flavor of the main ideas, methods, and results, with emphasis on the aspects which are particularly relevant for

4 Statistical Theories of Phase

*Page 26/38*

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## Transitions The Application

Introduction. Based on Landau's previously established theory of second-order phase transitions, Ginzburg and Landau argued that the free energy,  $F$ , of a superconductor near the superconducting transition can be expressed in terms of a

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complex order parameter field,  
which is nonzero below a phase  
transition into a superconducting  
state and is related to the density of  
the superconducting...

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Ginzburg–Landau theory - Wikipedia  
Notes in Physics  
The Landau theory of phase

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transitions is based on the idea that the free energy can be expanded as a power series in the order parameter  $\phi$ . For a second order phase transition, the order parameter grows continuously from zero at the phase transition so the first few terms of the power series will dominate.

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Landau theory of a first order phase  
transition  
Title: Landau Theory of Phase  
Transitions 1 Landau Theory of Phase  
Transitions We find  $M_0$  for TgtTCM  
 $M \neq 0$  for TltTCM Any second order  
transition can be described in the

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same way, replacing  $M$  with an order parameter that goes to zero as  $T$  approaches  $T_C$ .  
Lecture 5.2 The Superconducting Order Parameter  
We have already suggested that superconductivity

PPT – Landau Theory of Phase

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Symmetry and the Landau Theory of  
Phase Transitions: Application to  
Trigonal Spin Interactions in

Magnetolectric  $\text{CuFeO}_2$  and  $\text{HoMnO}_3$

31.

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Phase Transitions ... The Application

Landau ' s theory of phase transitions is based on an expansion of the free energy of a thermodynamic system in terms of an order parameter, which is nonzero in an ordered phase and zero in a disordered phase.

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MATHEMATICA TUTORIAL, Part 1.2:

Landau Theory

Using the concept of the order parameter, the phase transitions are considered as mathematical catastrophes of the Landau potential. The “catastrophic” approach helps us to classify the phase...

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A review is given of the wide variety  
of predictions that results from a  
Landau-type of description of the  
nematic-isotropic phase transition.  
This includes a discussion of the

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nature of the order parameter and of the various types of possible phases, of the influence of external fields, and of the effect of inclusion of spatial variations of the order parameter.

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Landau theory of the nematic-  
isotropic phase transition ...

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