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Introduction To Superfluidity Field Theoretical

Superfluidity – and closely related to it, superconductivity – are very general phenomena that can occur on vastly different energy scales. Their underlying theoretical mechanism of spontaneous symmetry breaking is even more general and applies to a multitude of physical systems. In these

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lecture notes, a pedagogical introduction to the field-theory approach to superfluidity is presented.

Introduction to Superfluidity - Field-theoretical Approach ...

Superfluidity – and closely related to it, superconductivity – are very general phenomena that can occur on vastly different energy scales.

Introduction to Superfluidity: Field-theoretical Approach ...

In this pedagogical introduction, I discuss theoretical aspects of superfluidity and superconductivity, mostly using a field-theoretical formalism. While the emphasis is on general concepts and mechanisms behind superfluidity, I also discuss various applications in low-energy and high-energy physics. Besides some introductory and standard topics such as superfluid helium and superfluidity in a simple scalar field theory, the lecture notes also include more advanced chapters, for instance ...

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Introduction to Superfluidity : Field-theoretical Approach and Applications. [Andreas Schmitt] -- Superfluidity - and closely related to it, superconductivity - are very general phenomena that can occur on vastly different energy scales.

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This can be done since superfluidity can also be described in the field theoretical framework, where BEC is generally characterized by breaking of $U(1)$ global symmetry [18, 19]. In this ...

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Introduction. Superfluidity – and closely related to it, superconductivity – are very general phenomena that can occur on vastly different energy scales. Their underlying theoretical

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Introduction to superfluidity. Field-theoretical approach and applications. Schematic phase diagram of ^4He in the plane of pressure P and temperature T . Andreas Schmitt. In this pedagogical introduction, I discuss theoretical aspects of superfluidity and superconductivity, mostly using a field-theoretical formalism.

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The course starts with an introduction to the physics of superfluid helium, chapter 2. This is done on a macroscopic level, i.e., we do not discuss a microscopic theory on the level of the helium atoms. The goal of this chapter is to become familiar with the phenomenology of a superfluid, and to introduce the basic concepts of superfluid

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The theoretical treatment of superfluid helium used in the previous section was phenomenological in the sense that the microscopic degrees of freedom, the helium atoms, never appeared in our... Superfluidity in Quantum Field Theory | SpringerLink

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Schematic Bose–Einstein condensation versus temperature of the energy diagram. In condensed matter physics, a Bose–Einstein condensate (BEC) is a state of matter (also called the fifth state of matter) which is typically formed when a gas of bosons at low densities is cooled to temperatures very close to absolute zero ($-273.15\text{ }^{\circ}\text{C}$). Under such conditions, a large fraction of bosons occupy ...

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