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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 lecture notes, a pedagogical introduction to the field-

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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.

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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

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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...

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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Introduction to Superfluidity : Field-theoretical Approach ...

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 to Superfluidity -

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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-

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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.

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The goal of this chapter is to become familiar with the phenomenology of a superfluid, and to introduce the basic concepts of superfluid

Introduction to superfluidity **arXiv:1404.1284v2 [hep-ph] 31 ...**

The theoretical treatment of superfluid helium used in the previous section was

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phenomenological in the sense that the microscopic degrees of freedom, the helium atoms, never appeared in our...

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Superfluidity - and closely related to it,

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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.

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by **Andreas Schmitt ...**

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

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absolute zero (-273.15 °C). Under such conditions, a large fraction of bosons occupy ...

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