

quantum phase transitions in pdf

Abstract. Understanding magnetic phases in quantum mechanical systems is one of the essential goals in condensed matter physics, and the advent of prototype quantum simulation hardware has provided new tools for experimentally probing such systems.

Phase transitions in a programmable quantum spin glass

Quantum cascade lasers (QCLs) are semiconductor lasers that emit in the mid- to far-infrared portion of the electromagnetic spectrum and were first demonstrated by Jerome Faist, Federico Capasso, Deborah Sivco, Carlo Sirtori, Albert Hutchinson, and Alfred Cho at Bell Laboratories in 1994.. Unlike typical interband semiconductor lasers that emit electromagnetic radiation through the ...

Quantum cascade laser - Wikipedia

A state of matter is also characterized by phase transitions. A phase transition indicates a change in structure and can be recognized by an abrupt change in properties.

State of matter - Wikipedia

The Nobel Prize in Physics 2016 was divided, one half awarded to David J. Thouless, the other half jointly to F. Duncan M. Haldane and J. Michael Kosterlitz "for theoretical discoveries of topological phase transitions and topological phases of matter".

The 2016 Nobel Prize in Physics - Press release

The Discreteness of Space is the Cause of the Quantization of the Wavelength. Authors: Miheev Sergey Vladimirovich Comments: 2 Pages. The requirement of invariance with respect to phase change imposed on free oscillations in discrete space limits the wavelength of free oscillations to discrete values that are multiples of the minimum wavelength.

viXra.org e-Print archive, Quantum Gravity and String Theory

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