

## *Collective Excitations In Unconventional Superconductors And Superfluids*







**Collective Excitations In Unconventional Superconductors**

BCS theory or Bardeen-Cooper-Schrieffer theory (named after John Bardeen, Leon Cooper, and John Robert Schrieffer) is the first microscopic theory of superconductivity since Heike Kamerlingh Onnes's 1911 discovery. The theory describes superconductivity as a microscopic effect caused by a condensation of Cooper pairs into a boson-like state. The theory is also used in nuclear physics to ...

**BCS theory - Wikipedia**

During the symposium, we hope to cover various topics in condensed matter physics such as quantum magnetism, unconventional superconductivity, heavy fermion, quantum phase transition, low-D electronic materials, topological materials, superconductivity under extreme conditions, oxide semiconductors, 2D electrons, etc.

**APCTP - APCTP-KIAS Quantum Materials Symposium 2019**

2015 \*\*\* back to Top † "Interface between Heavy Fermions and Normal Electrons Investigated by Spatially Resolved Nuclear Magnetic Resonance" T. Yamanaka, M ...

**Publication - Quantum Condensed Matter Group - 量子物**

We perform a numerical study of a spin-1/2 model with  $\mathbb{Z}_2 \times \mathbb{Z}_2$  symmetry in one dimension which demonstrates an interesting similarity to the physics of two-dimensional deconfined quantum critical points (DQCP).

**Condensed Matter authors/titles "new" - arXiv**

Atomically thin flakes of van der Waals materials such as graphene and hexagonal boron nitride (hBN) can be mixed and matched into heterostructures with fundamentally new optoelectronic properties.

**van der Waals heterostructures combining graphene and ...**

量子物 / Recent publications 2019 "Flemish Strings of Magnetic Solitons and a Nonthermal Fixed Point in a One-Dimensional Antiferromagnetic Spin-1 Bose Gas"

**Publication - 量子物 量子物**

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The exchange coupling is a core ingredient of many quantum computing architectures based on highly coherent donor qubits in silicon. However valley interference and dopant placement precision are lasting concerns to determine whether a required level of exchange uniformity can be achieved at large scale.

**Quantum Computing | Centre for Quantum Computation and ...**

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