

Condensed matter physics - dynamic correlations

Benjamin/Cummings - The Joynt Group

[Group Introductions]
Our group, led by prof. Jong Seok Lee, focus on the studies of strong correlated electron system. Recent interests include: electronic properties of multiferroic materials, magnetic transition, early ferromagnetic, ferroelectricity, magnetoelectricity and so on, and such are arising from strong interaction among fundamental degrees of freedom in the solid, i.e., charge, spin, orbital, and lattice. Their proper understanding is important to design our knowledge of the nature and applications for the technical usage of such systems. We are also interested in the development of novel functional devices based on the physical phenomena involving the light-matter interaction, and aim at revealing the working principles and designing new functional devices.

[Research Interests]

- Correlated electron system - Mettronics
- Electromagnetism
- Ferrotoroidic state

(a) Optical characterization of the ferrotoroidic state
The ferrotoroidic state is a state where the magnetic moment in the ferromagnetic state is the so-called toroidal moment. Depending on the spin-orbit toroidal moment can order in an antiferromagnetic or ferromagnetic, and the latter state can host optical magnetoelectric effect as nonlinear Kerr rotation and the dielectric dichroism. By using such phenomena, we search for new magnetoelectric materials and functional devices. In the figure on the right shows a cluster superposition of generic which hosts such a magnetoelectric function even above room temperature.

(b) Real-space imaging of domain and the active control
In the ferrielectric states, corresponding electric, magnetic, ferroelectric moments due to electric polarization, especially the domain charges of domains and their boundaries. Therefore, the proper understanding of the formation of such multi-domain structures in the ferrielectric state is of great importance to fully exploit ferrielectric systems.

Description: -

Materials management.

Machine design.

Marine turbines.

Balancing of machinery.

Statistical physics.

Condensed matter. Condensed matter physics - dynamic correlations

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Notes: Includes bibliographies and index.

This edition was published in 1986



Filesize: 15.13 MB

Tags: #Dynamic #structure #factor

Condensed concepts: Static versus dynamic correlations in quantum chemistry

The corrections to this are dynamical correlations. Finite-size effects can be estimated by comparing data for various clusters shown in Appendix. Information about registration may be found.

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In condensed matter theory, some recent projects have included discrete scale invariance in topological materials and optical properties of unconventional superconductors. It appears that heat flow is not diffusive but instead super-diffusive which means that the thermal conductivity of low-dimensional materials is infinite. The only alternative tool is resonant inelastic x-ray scattering RIXS , however, this approach does not offer sufficient energy resolution to compare observations with theory.

Dynamic structure factor

Such measurements typically rely on a technique called inelastic neutron scattering, however, iridium compounds such as Na₂IrO₃ absorb neutrons instead of scattering them. If I am reviewing a copy of a book and I have received a complimentary copy from the publisher I will state that in the review.

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We appreciate your continued effort and commitment to helping advance science, and allowing us to publish the best physics journals in the world. The theoretical spectra are broadened by the experimental resolution function of the high-resolution setup.

Condensed concepts: Static versus dynamic correlations in quantum chemistry

At high temperature, short-range dynamics, possibly connected to a proximate QSL, emerges.

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Experimentally, it can be accessed most directly by or.

Condensed concepts: Static versus dynamic correlations in quantum chemistry

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