

Interacting electrons in nanostructures

Springer - vivchar.tom.ru: Interacting Electrons in Nanostructures (9783540422228): Haug, Rolf, Schoeller, Herbert: Books

Question on Van der Waals Interactions

Consulted with Professor Lam and Marfatia, who are more expert.
Indeed, by definition, Van der Waals binding arise from dipole-dipole interactions.

However, they can occur from induced dipoles in neutral atoms or molecules. In particular, a QM dipole fluctuation in one atom can induce a dipole in another atom and then produce a Van der Waals force/potential (also mentioned on p.1407 of the text).

So permanent dipole moments are not required at all. Also note Van der Waals binding is weak.

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Interacting electrons in nanostructures

- Lecture notes in physics -- 579. Interacting electrons in nanostructures

Notes: Includes bibliographical references.

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This book looks in detail at the physics of interacting systems of electron and nuclear spins in semiconductors, with particular emphasis on low-dimensional structures.

Interacting electrons in one

Schliessen Bestellen Bei der Übermittlung Ihrer Eingabe ist ein Fehler aufgetreten.

Quantum billiards with correlated electrons confined in triangular transition metal dichalcogenide monolayer nanostructures

The noninteracting and strongly interacting pictures are at odds with each other.

Interacting Electrons in Nanostructures

Nodal domains of the equilateral triangle billiard.

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Finally, several methods for solving the BTE are also reviewed, including the method of moments, iterative methods, direct matrix inversion, Cellular Automata and Monte Carlo. Electron interaction with other degrees of freedom generally yields two major consequences, quantum dissipation and quantum decoherence. Hence, this book discusses those sub-topics which are required to deal with electronic transport in a single, self-contained course.

Interacting Electrons in Nanostructures

To investigate the dichotomy, we will compare the observed LDOS patterns with theoretical modeling ranging from noninteracting quantum billiard

description to strongly interacting classical gas.

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