

Group theoretical techniques in quantum chemistry

Academic Press - Quantum Molecular Dynamics, Topological, Group Theoretical and Graph Theoretical Studies of Protein



Description: -

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Lawrence of Arabia (Motion picture)
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Theoretical chemistry, a series of monographs -- v. 5
Group theoretical techniques in quantum chemistry
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The Berkelbach Group at Columbia University and the Flatiron Institute

Particular materials of interest include conjugated polymers, organic molecular crystals, and quasi-two-dimensional inorganic semiconductors.

Ananth Group

Cold Molecular Ions: The reaction dynamics of molecules at millikelvin temperatures exhibit interesting quantum mechanical effects that are typically hidden by thermal averaging.

Profile

In the few-body regime, our group examines the behavior of neutral atoms under the influence of radio frequency light or synthetic gauge fields, in addition to conventional electron or photon collision phenomena from low energies up to the X-ray regime. Quantum Simulations of Molecules and Materials: Many materials exhibit magnetic frustration and have low temperature phase diagrams that are often dominated by quantum effects.

Ananth Group

Much of our research effort goes into developing and testing such approximations. Can Dark Matter interact with us? I'm a member of the ALPHA collaboration which was the first group to trap the antimatter version of the Hydrogen atom and the first group to quantitatively measure some of its properties. The large spatial superposition states can be used to study objective collapse theories of quantum mechanics.

The Berkelbach Group at Columbia University and the Flatiron Institute

The Institute focuses on discovering and studying new materials and basic physical quantum systems that will be best suited for integration into tomorrow's technology. I am a member of the??? These laws were developed between 1925 and 1928, as a reaction to discrepancies between experiments and the laws of classical mechanics.

Profile

The Brown Group is developing a technique that uses atomic ions to cool and measure molecular ions.

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