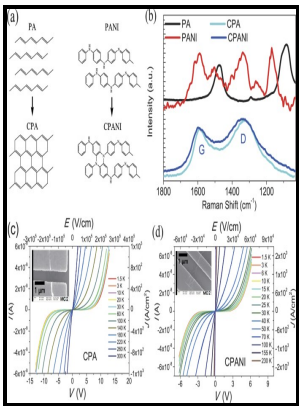
Spin-charge separation in the one dimensional Hubbard model with longer range hopping

University of Birmingham - Spectral properties of a partially spin



Description: -
-Spin-charge separation in the one dimensional Hubbard model with longer range hopping
-Spin-charge separation in the one dimensional Hubbard model with longer range hopping
Notes: Thesis (Ph.D) - University of Birmingham, School of Physics, Faculty of Science.
This edition was published in 1995

Filesize: 37.97 MB

Tags: #Phase #diagram #of #the #two

EPR pairing dynamics in Hubbard model with resonant U

The experimental spectra reveal significant discrepancies to band theory.

Phys. Rev. Lett. 88, 096402 (2002)

The collision processes are illustrated schematically in. Equivalent Heisenberg coupling Now we try to express the two-fermion collision in a more compact form. The dashed green line is a crossover boundary, across which the short-range correlations of s-wave pairing vanish smoothly from bottom to top.

ShieldSquare

We note that although the incident single fermion keep the original momentum, it entangles with the N-fermion train after the collision, leading to a deterioration of its purity. Coherent shift of localized bound pairs in the Bose-Hubbard model. We discuss the distinct influences of charge-spin separation and of the anomalous dimensions of the fermion operators and their evolution with correlation strength.

Phys. Rev. X 8, 011049 (2018)

In recent years, the controlled setting of ultracold fermionic atoms in optical lattices is regarded as a promising route to enabled quantitative experimental tests of theories of strongly interacting fermions , , ,.

Related Books

- My life
- The landscape of qualitative research - theories and issues
- MOBRAL, nascimento, vida, paixão e morte
- El espacio de la muerte - recreado a partir del occidente prehispánico
- Africa at war