Density Functional Theory for strongly-correlated ultracold atom gases

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Density functional theory (DFT), extremely successful in electronic structure calculations [1,2], has received relatively little attention for the study of ultracold atomic systems. We show that a recently proposed DFT methodology [3,4], aimed at the study of strongly-correlated electronic systems, can be generalized for its application to their ultracold-gases counterparts.

References

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