Density Functional Theory for Excited States

ANTONIOS GONIS, LLNL, DON M. NICHOLSON, X.-G. ZHANG, G. MALCOLM STOCKS, ORNL, SIMONE CHIESA, UC Davis — Using the concept of entangled states it is shown that density functional theory in its initial ground-state formulation\textsuperscript{1,2,3} is inherently capable of treating the excited states of interacting many-particle systems.\textsuperscript{4}

\textsuperscript{1}P. Hohenberg and W. Kohn, Phys. Rev. 136, B864, (1964).
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