

DNA Denaturation as a Quantum Coulomb Problem. A SSH model for DNA?

Dr. Juan D. García Muñoz
CINVESTAV-IPN (Mexico)

Abstract: In this talk, we review the phenomenon of DNA denaturation. The Fokker-Planck equation describing DNA denaturation is transformed into a Schrödinger-like equation of imaginary-time with a Coulomb potential, which allows us to obtain the corresponding probability density functions. We discuss about the behavior of these density functions at short- and large-times. Finally, we suggest the possibility of describe DNA denaturation phenomenon by means of the SSH model as a work for the near future.



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