

Abstract Submitted
for the MAR15 Meeting of
The American Physical Society

Flat histogram quantum Monte Carlo for analytic continuation to real time EFSTRATIOS MANOUSAKIS, Department of Physics, Florida State University and University of Athens, NIKOLAOS DIAMANTIS, Department of Physics, University of Athens — We study a recently developed technique based on the application of flat histogram ideas to quantum Monte Carlo. We use this technique to make the histogram of the single-particle Green's function flat as a function of the imaginary time, and the stochastic analytical inference technique to obtain the spectral functions for the $t - J$ model. We find that this application of the flat histogram idea to the quantum Monte Carlo method dramatically improves the quality of the results of the analytic continuation.

Efstratios Manousakis
Department of Physics, Florida State University and University of Athens

Date submitted: 14 Nov 2014

Electronic form version 1.4