

Featureless Boson States with PEPS

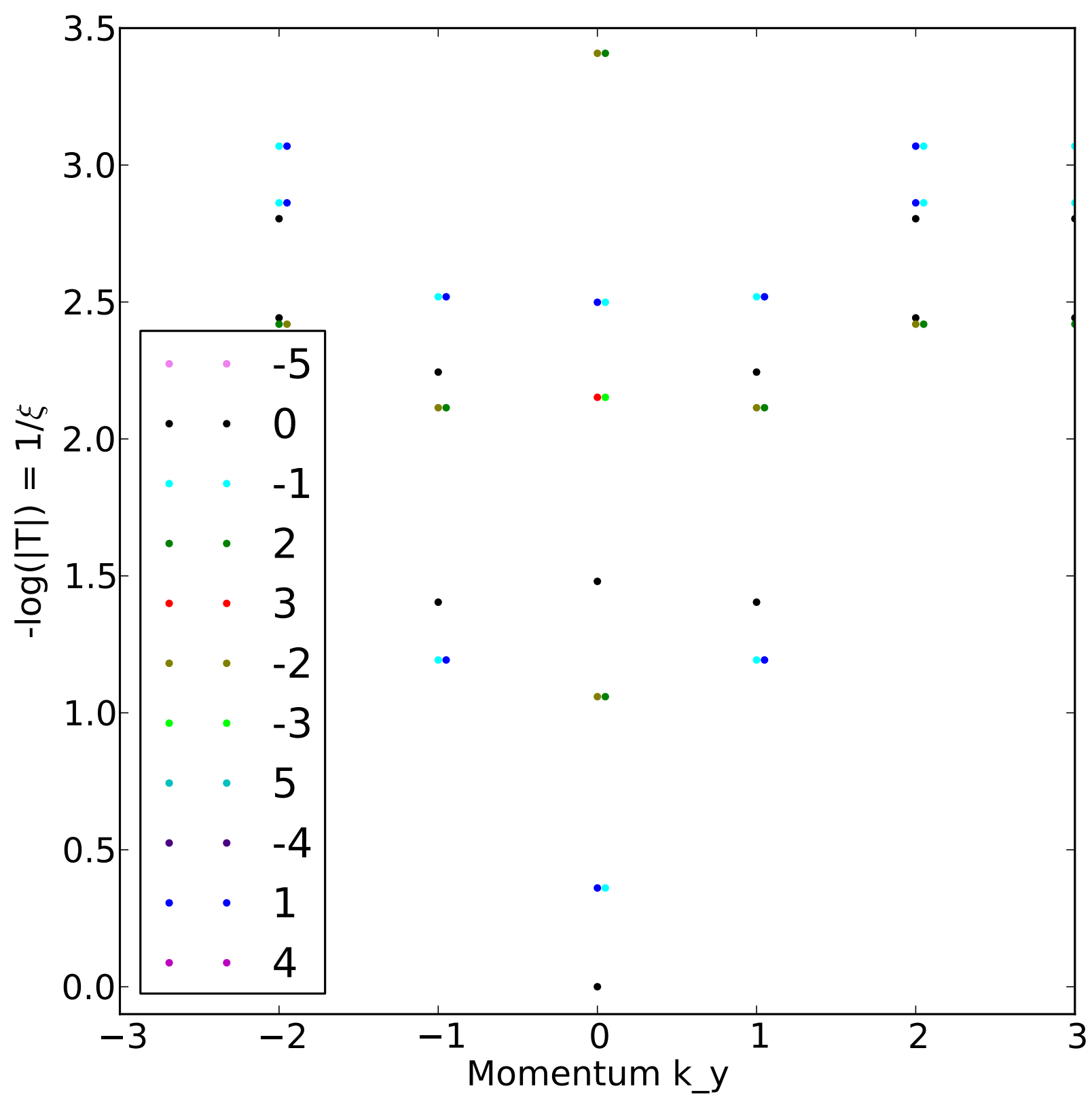
braydenware

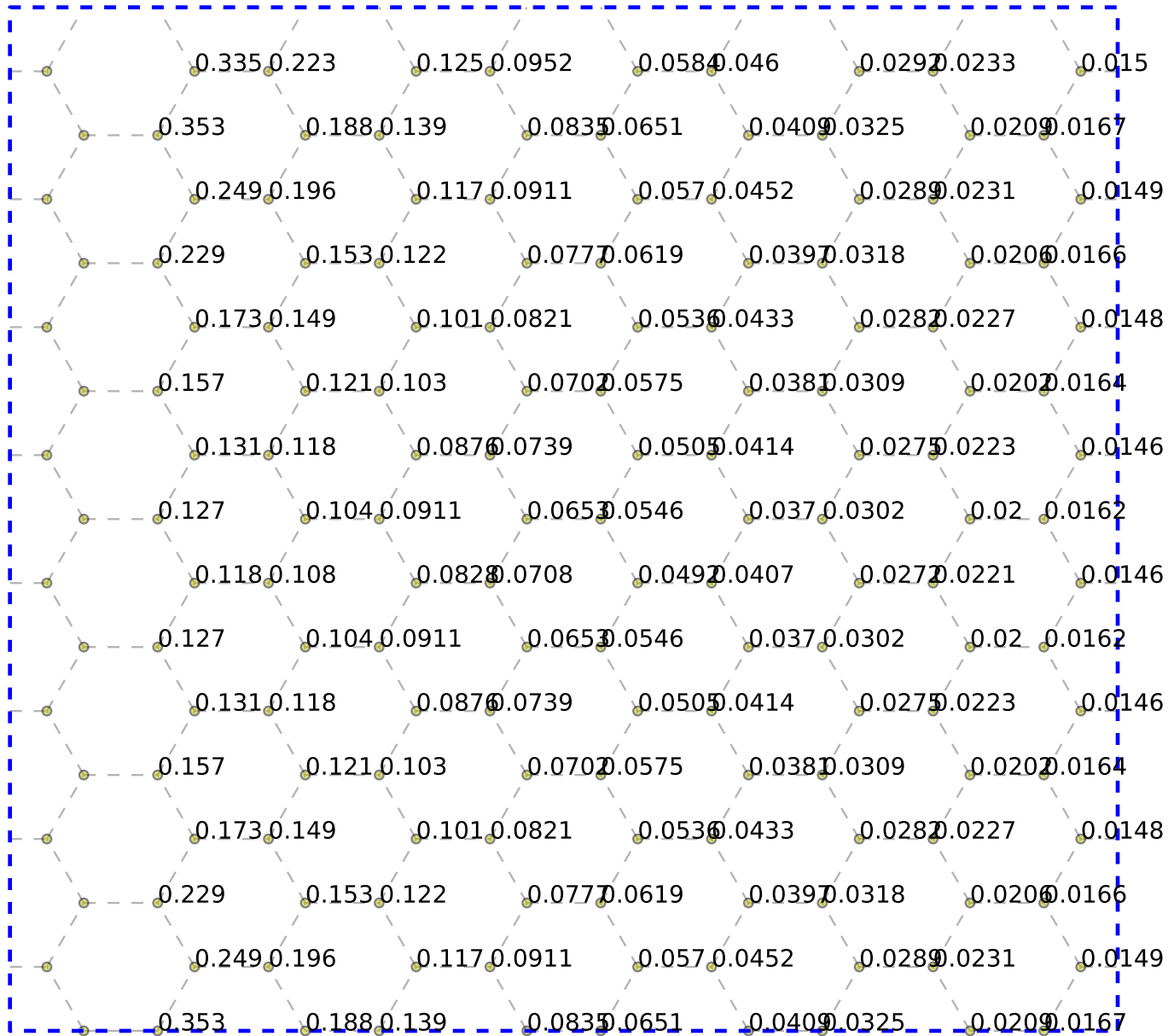
June 2014

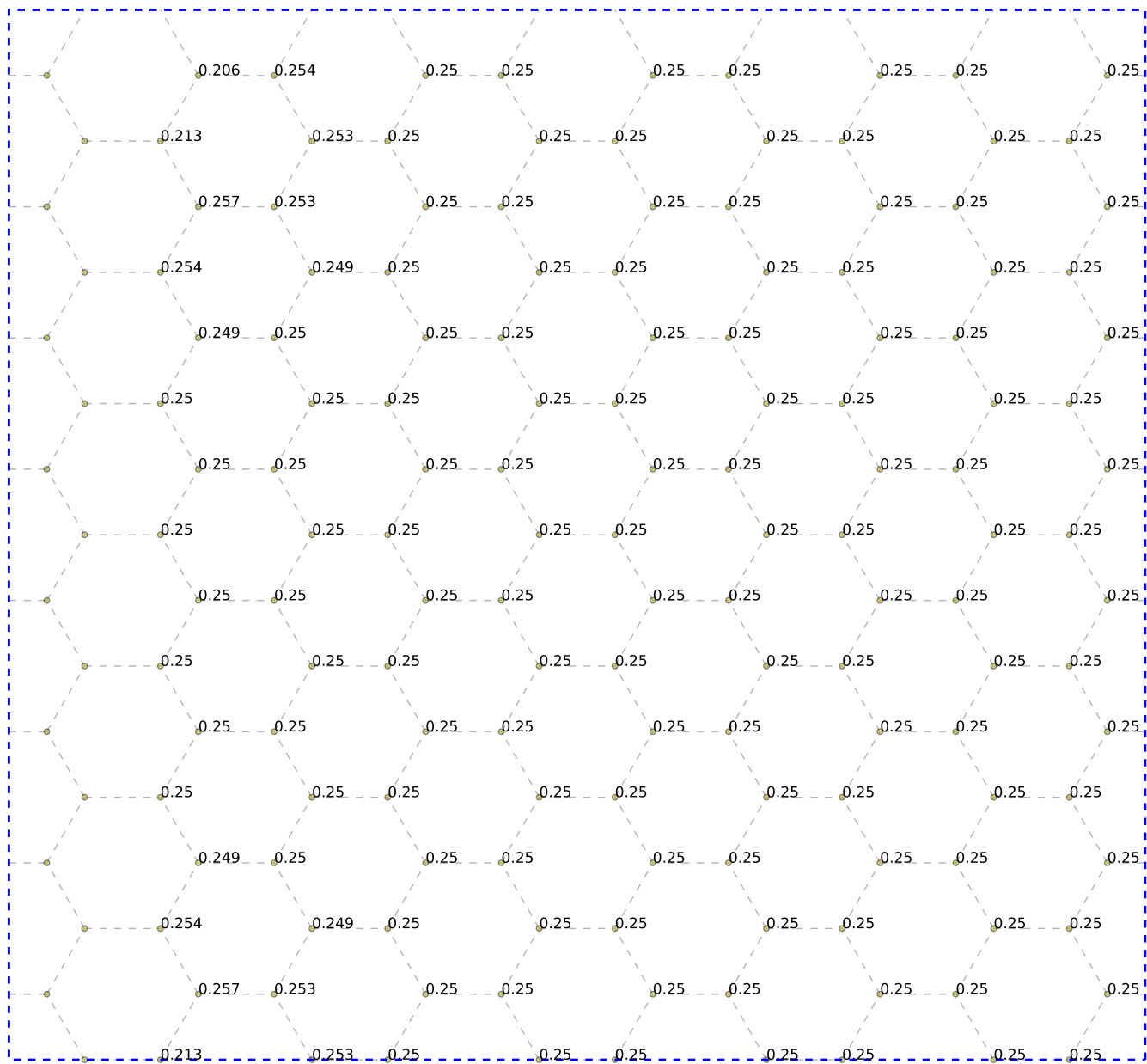
1 Introduction

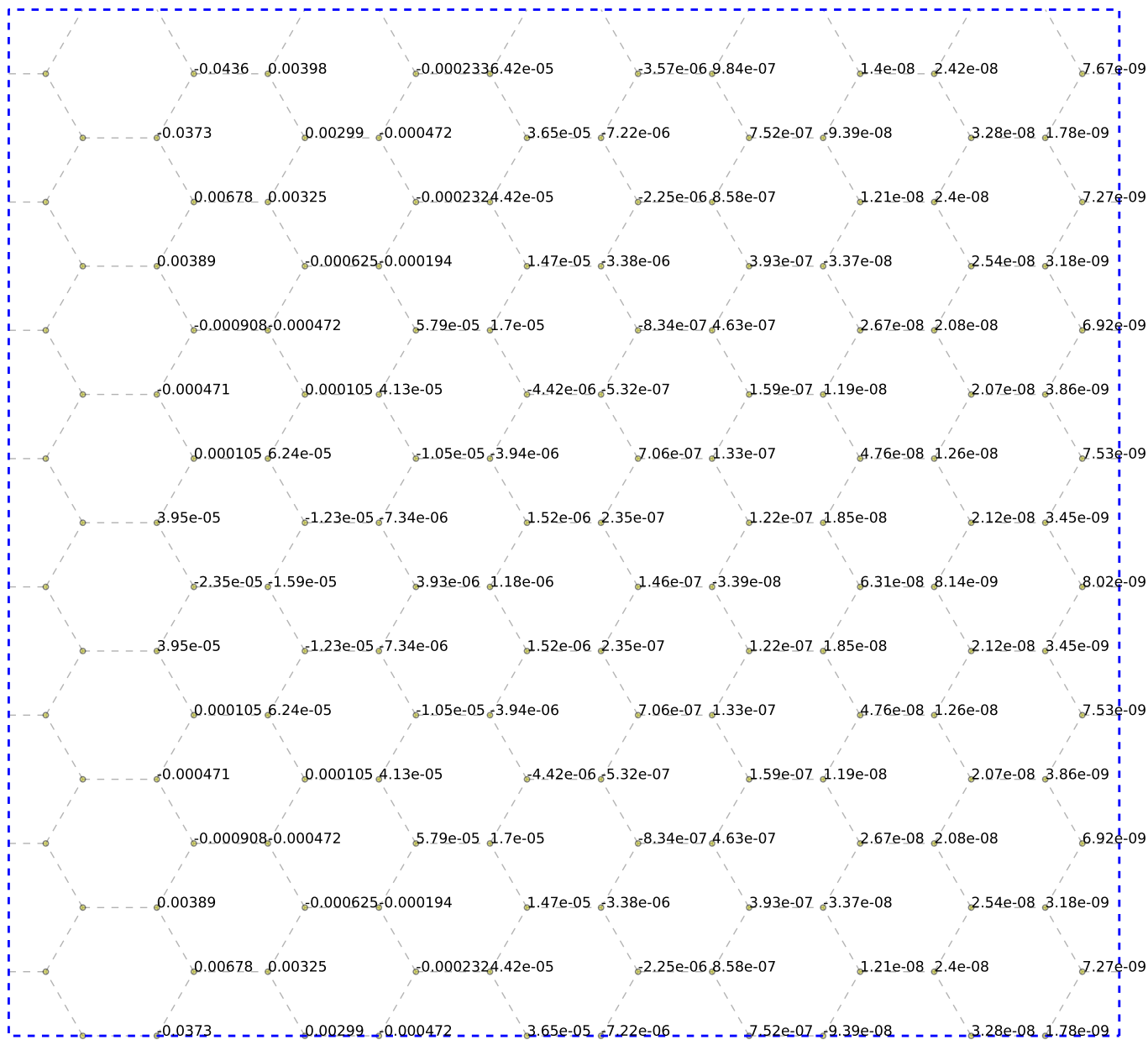
2 Appendix

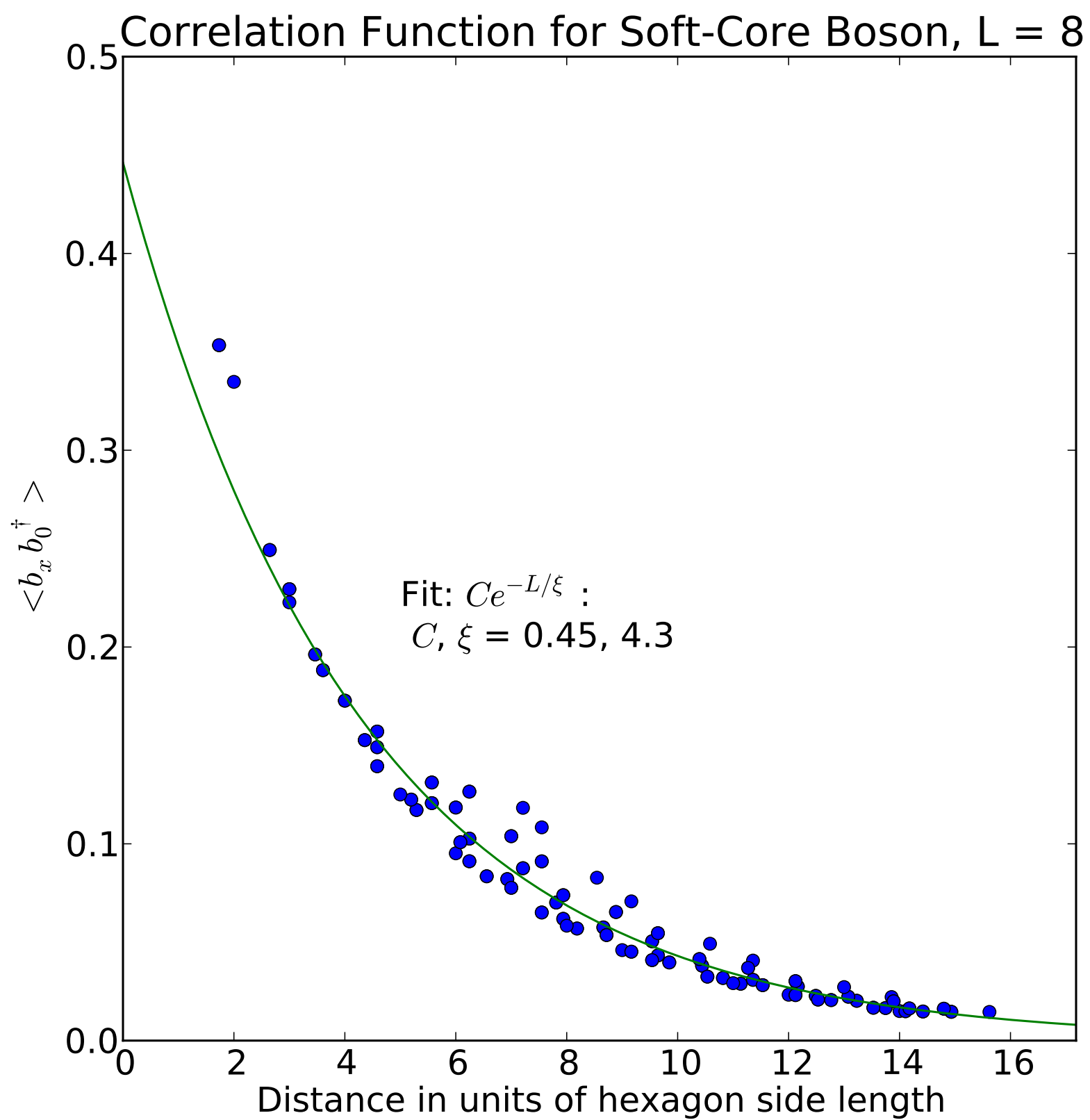
2.1 Soft Core Boson Plots



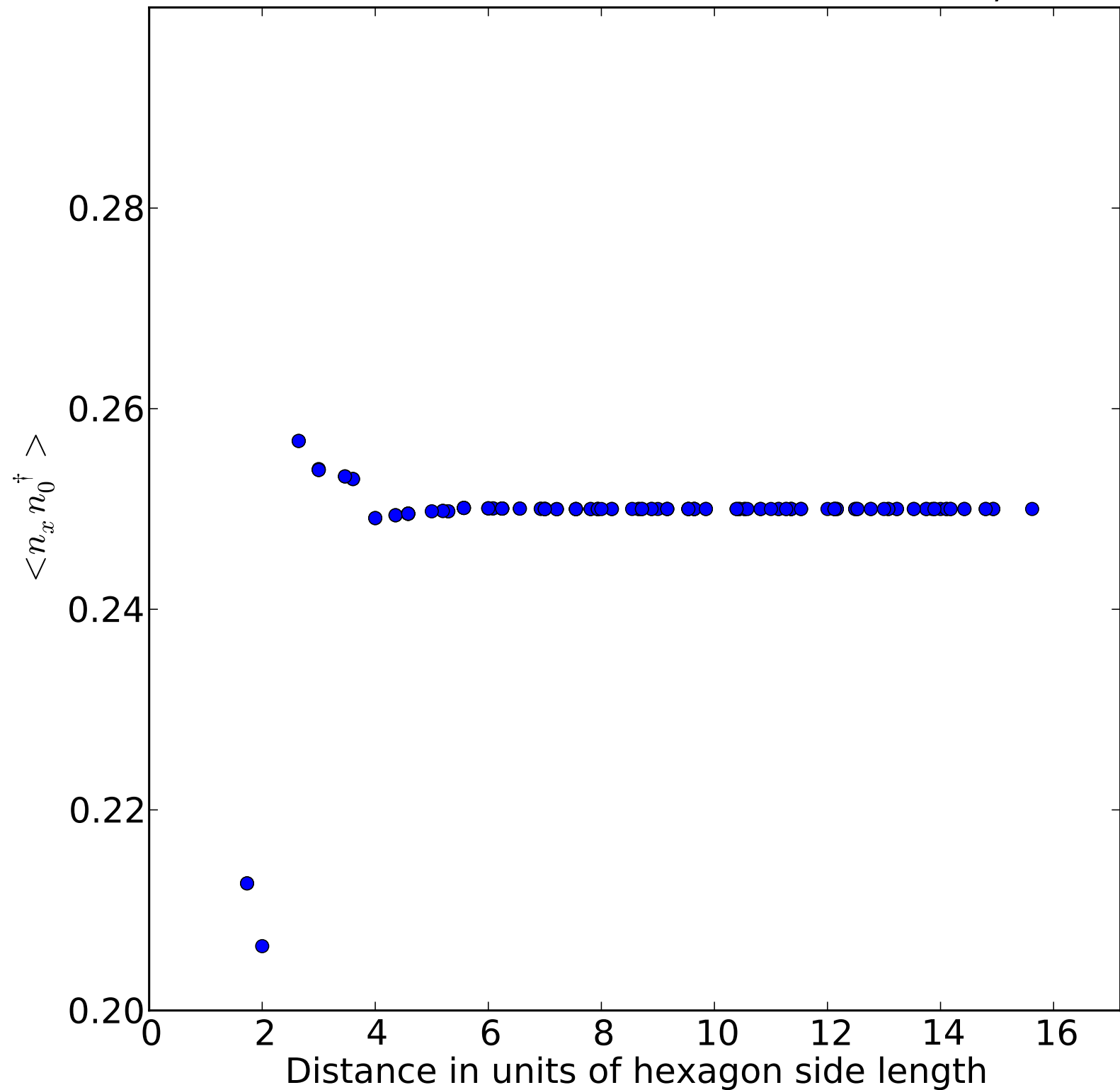




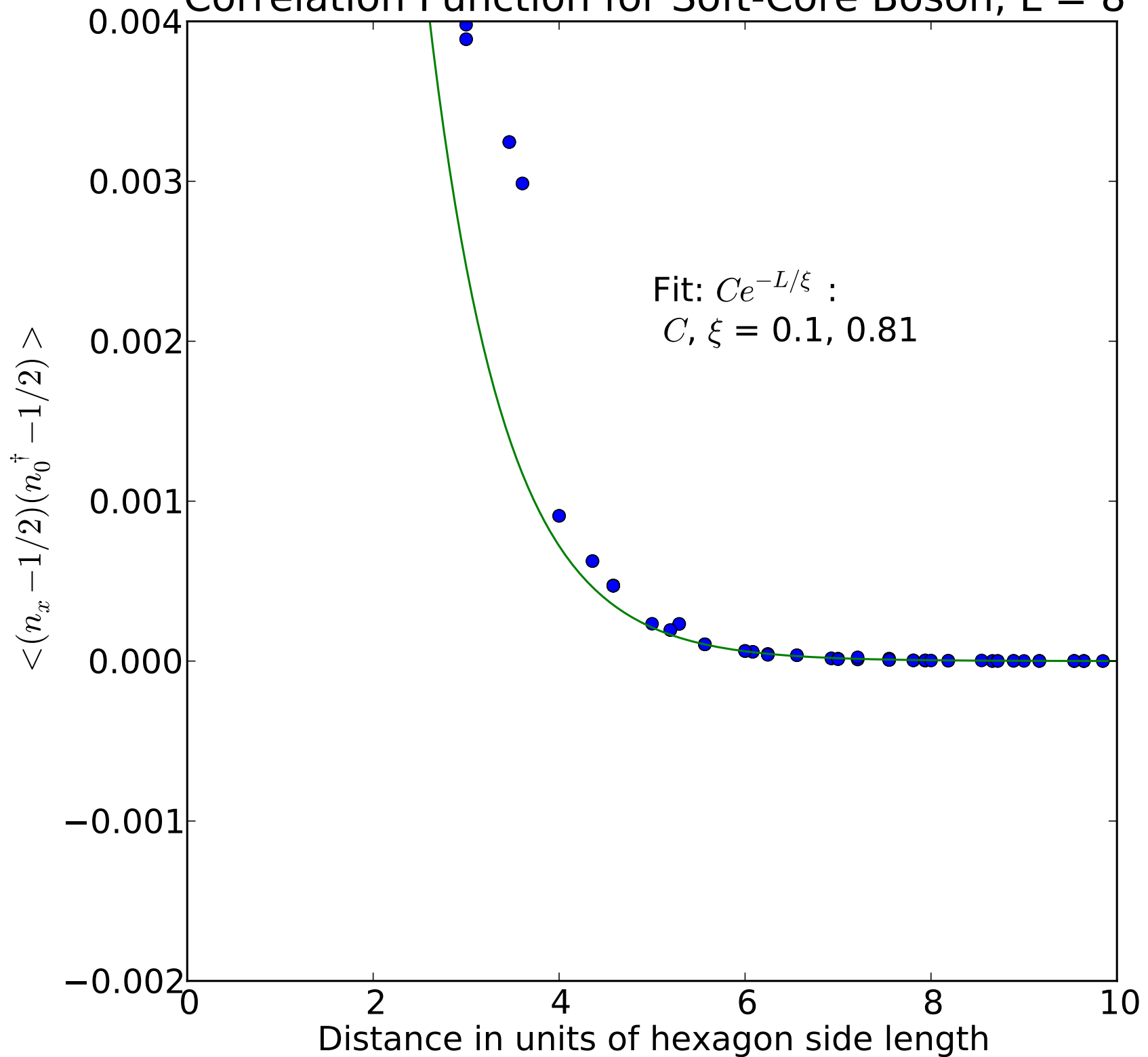




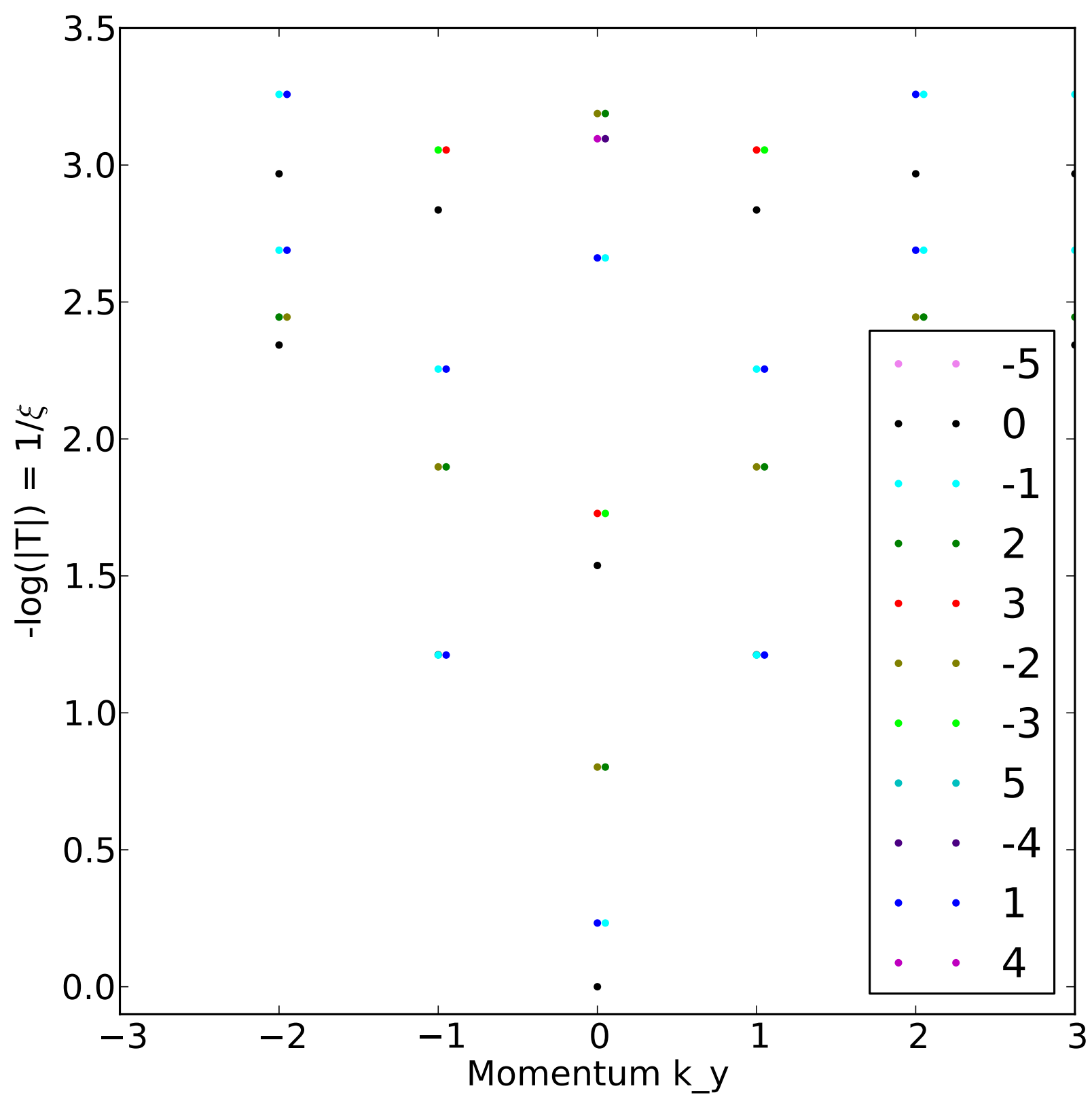
Correlation Function for Soft-Core Boson, L = 8



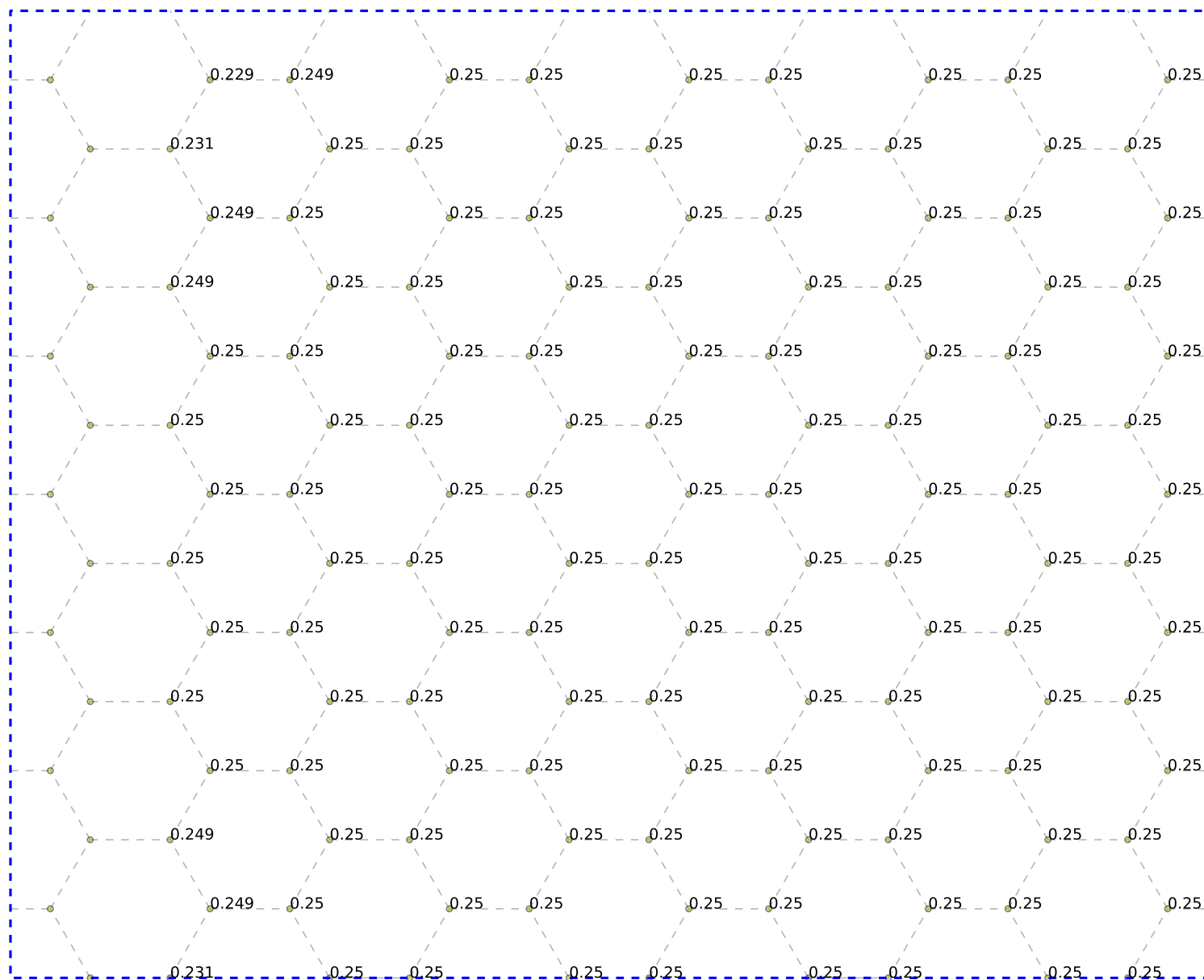
Correlation Function for Soft-Core Boson, L = 8



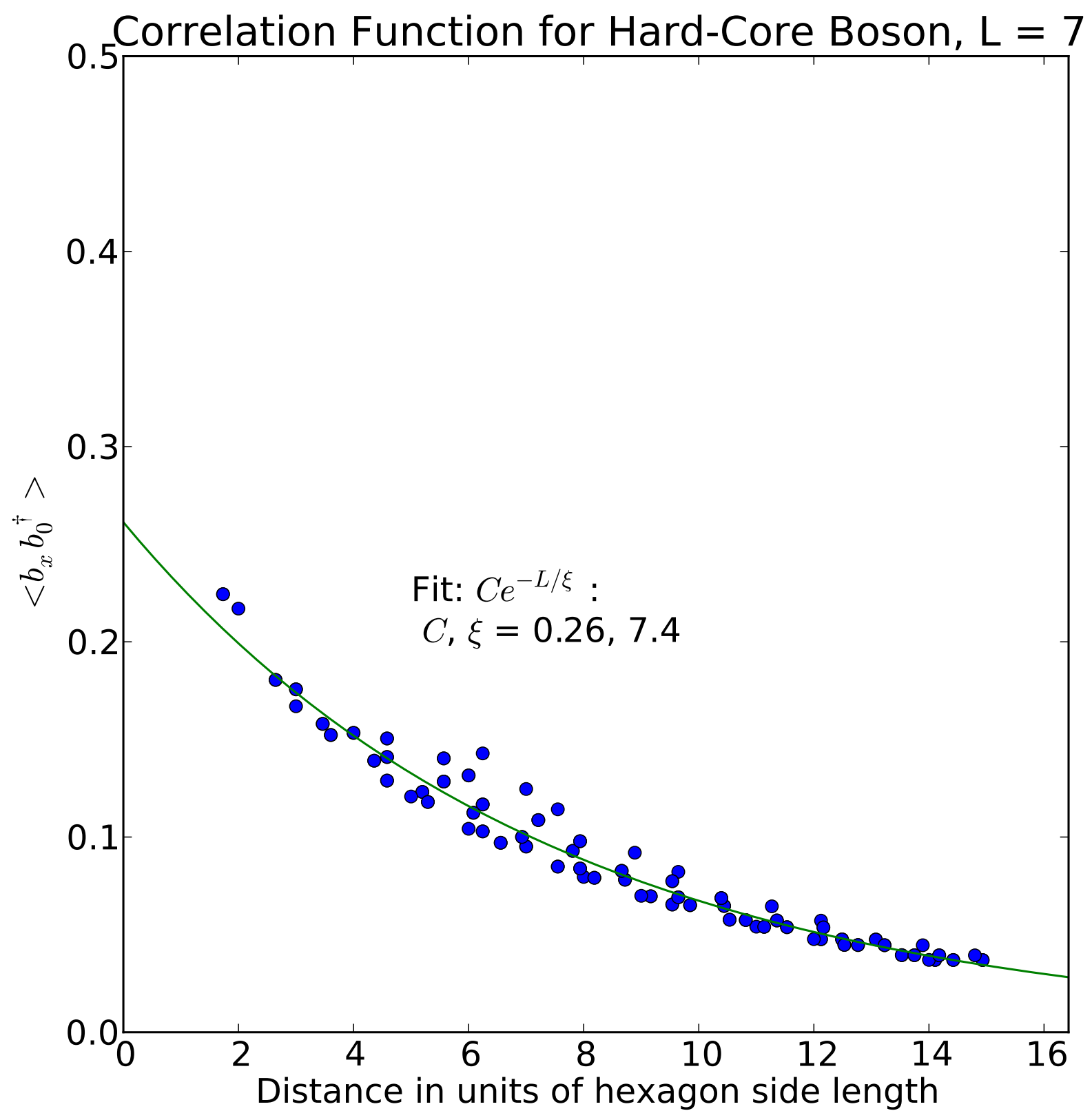
2.2 Hard Core Boson Plots



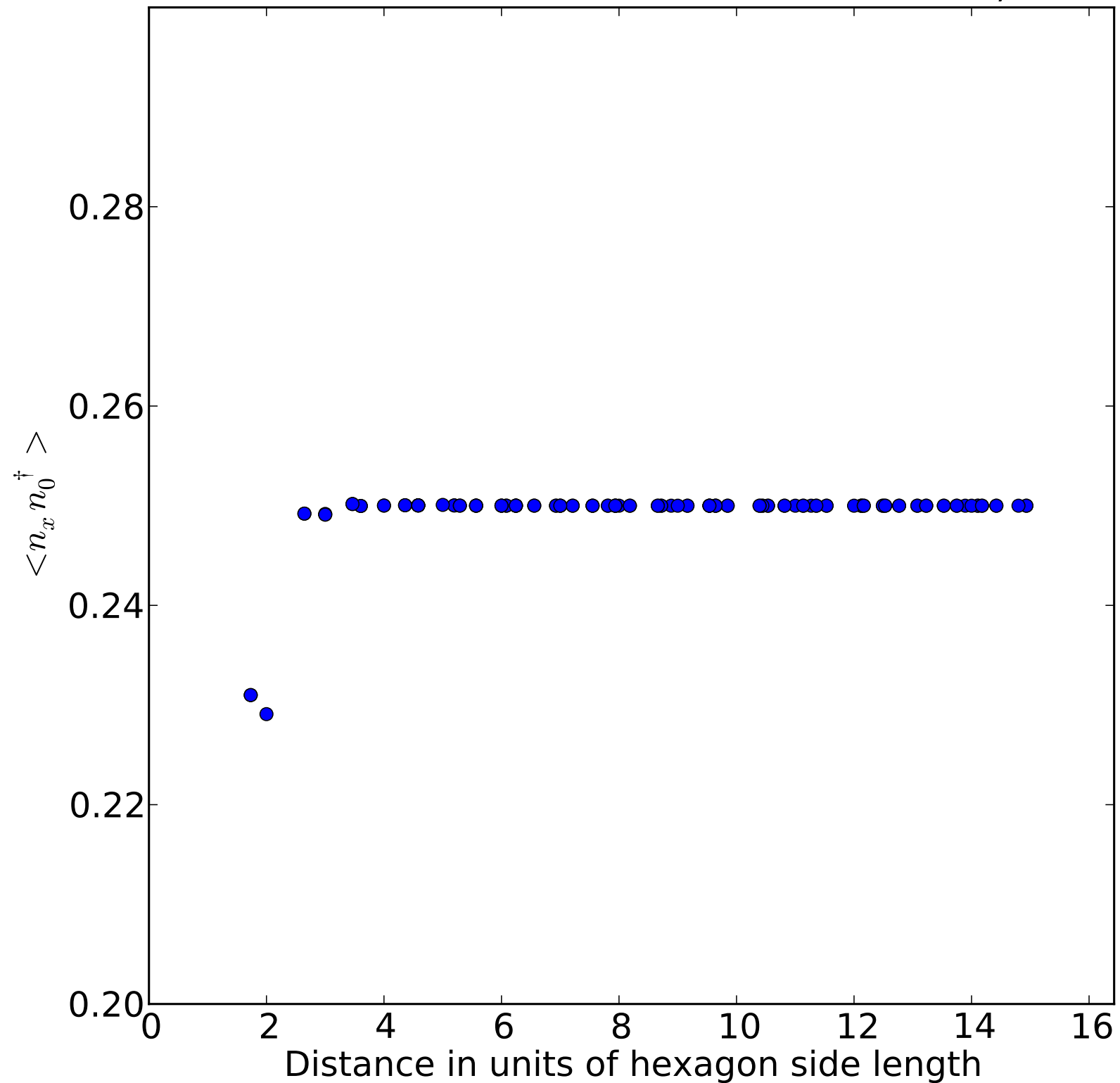






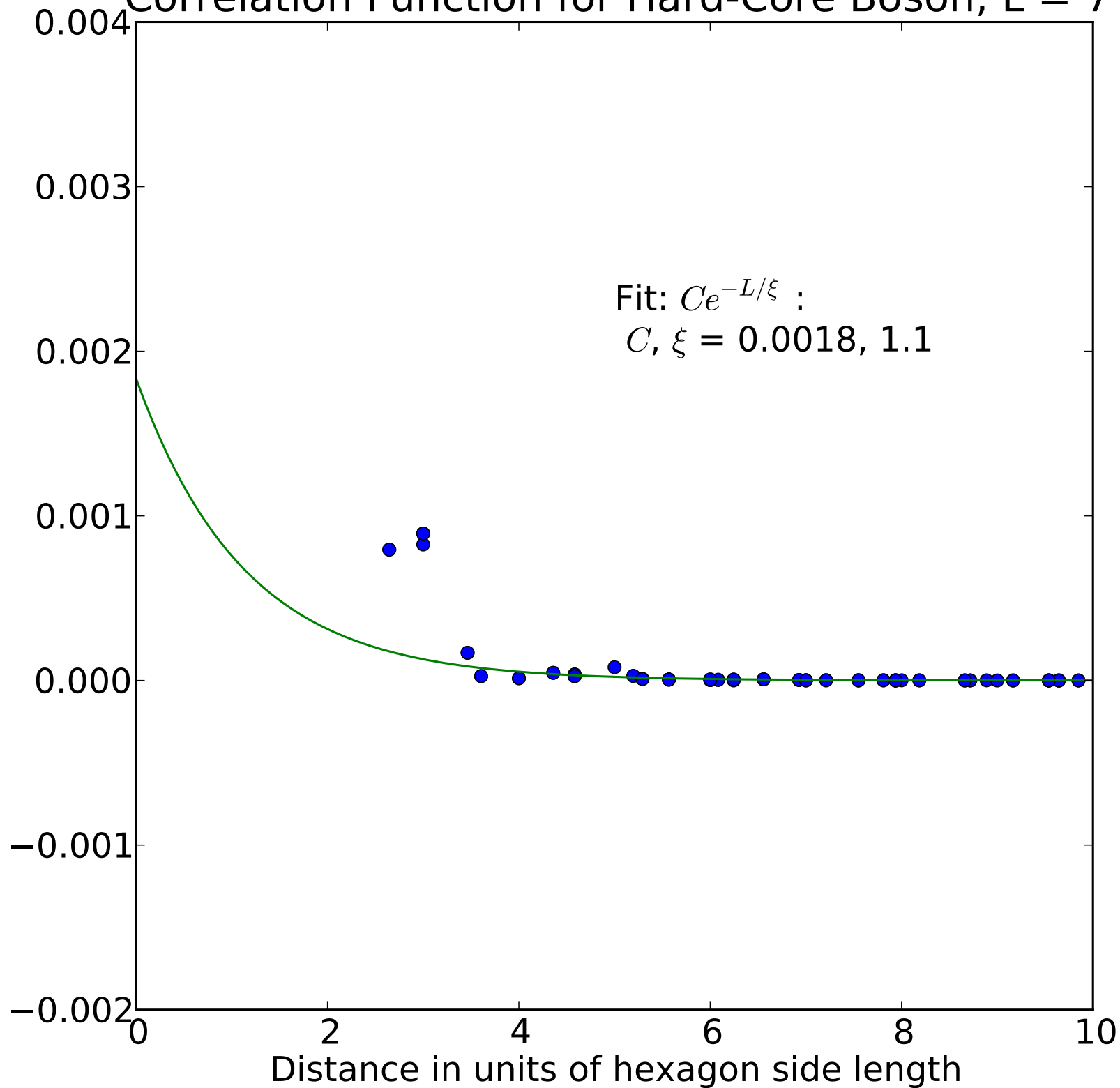


Correlation Function for Hard-Core Boson, L = 7

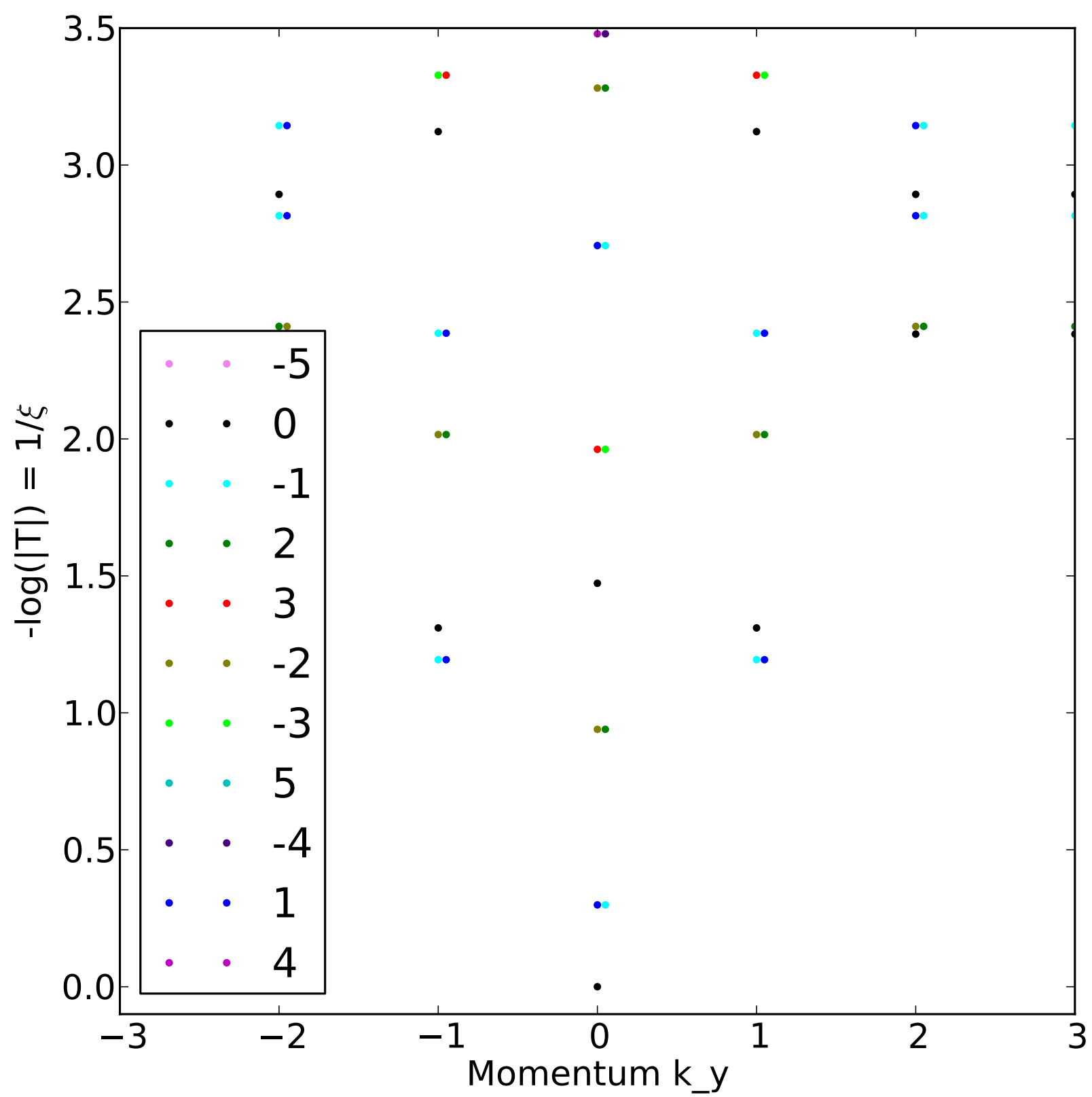


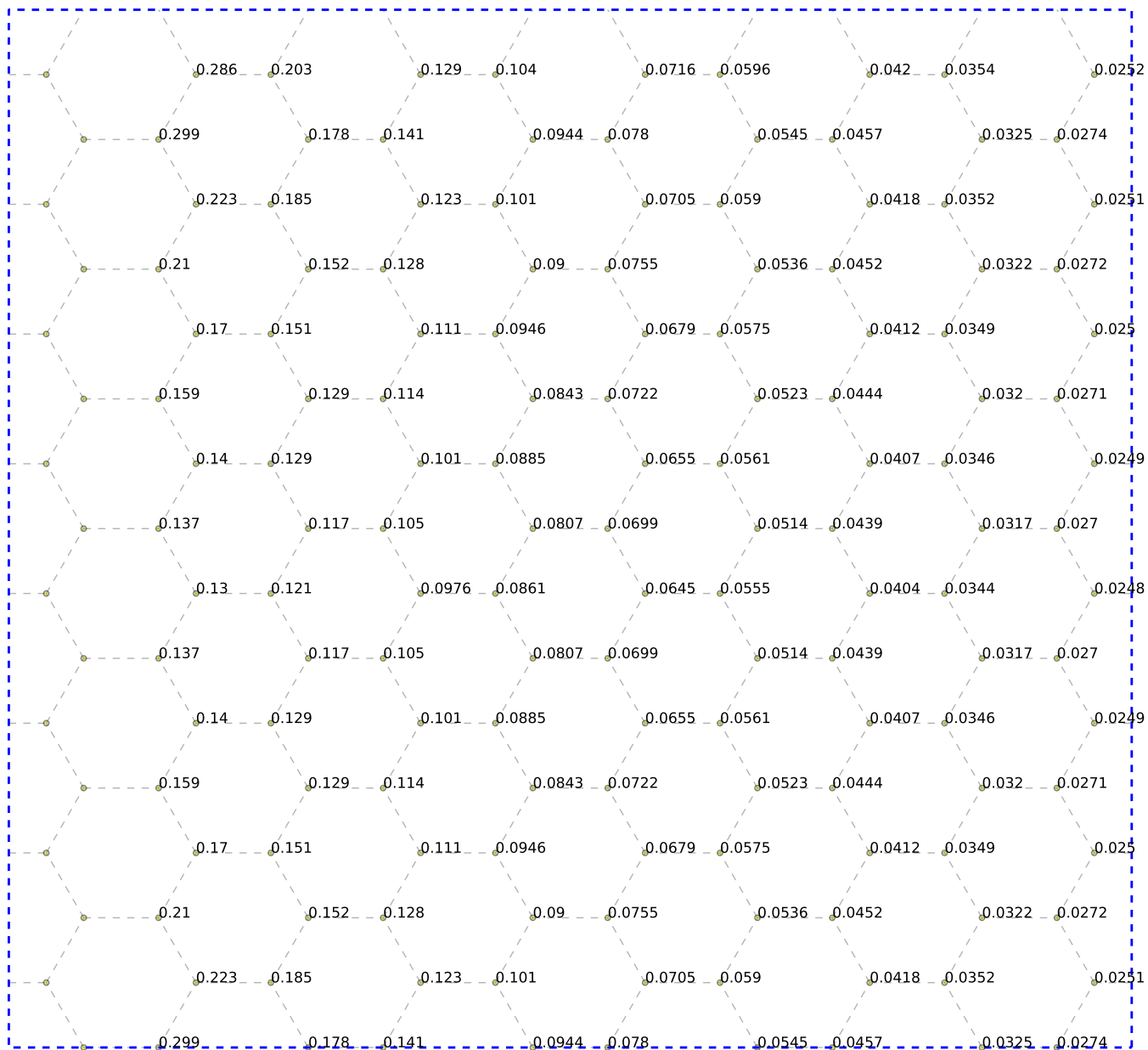
Correlation Function for Hard-Core Boson, L = 7

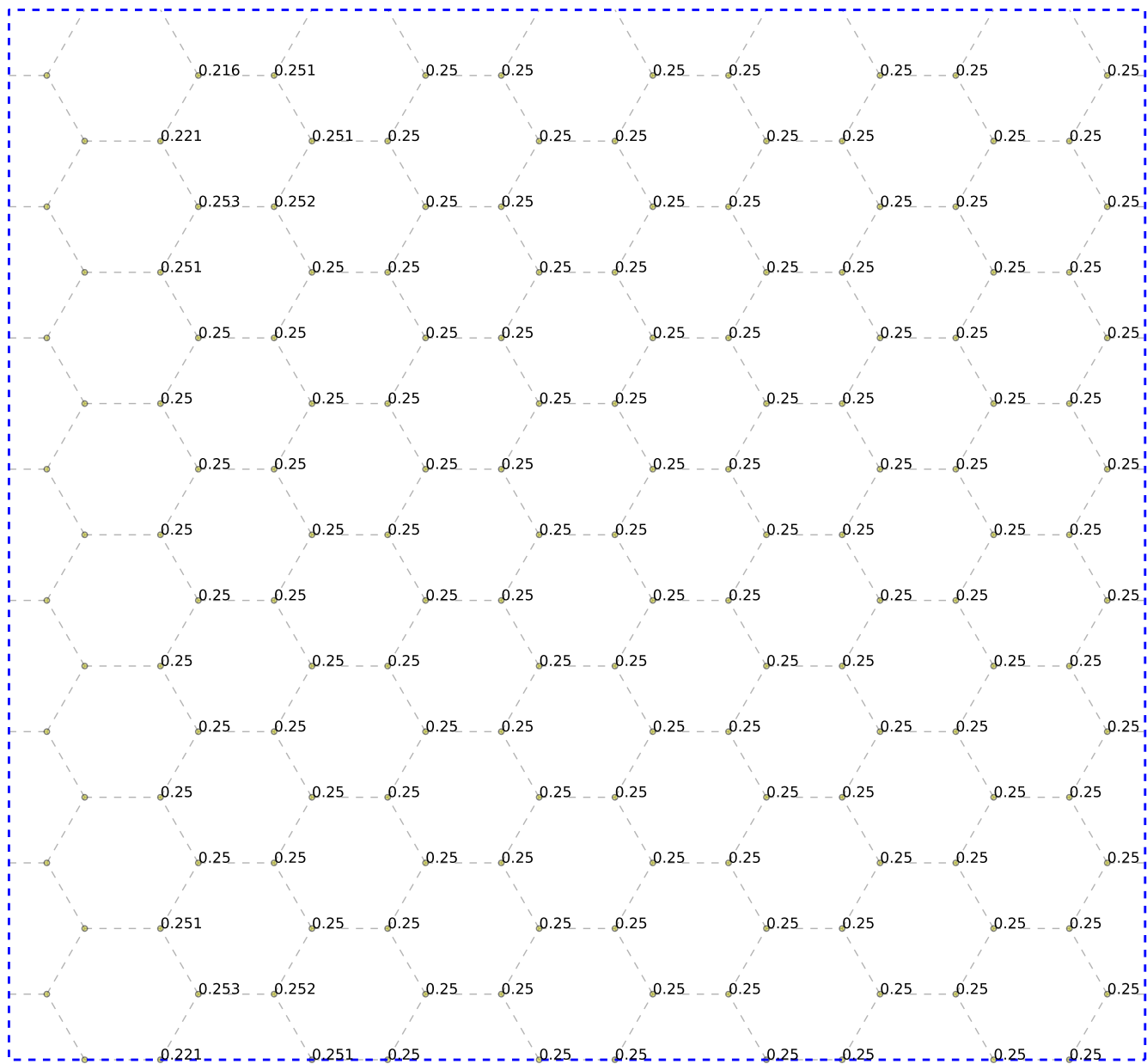
$$\langle (n_x - 1/2)(n_0^\dagger - 1/2) \rangle$$

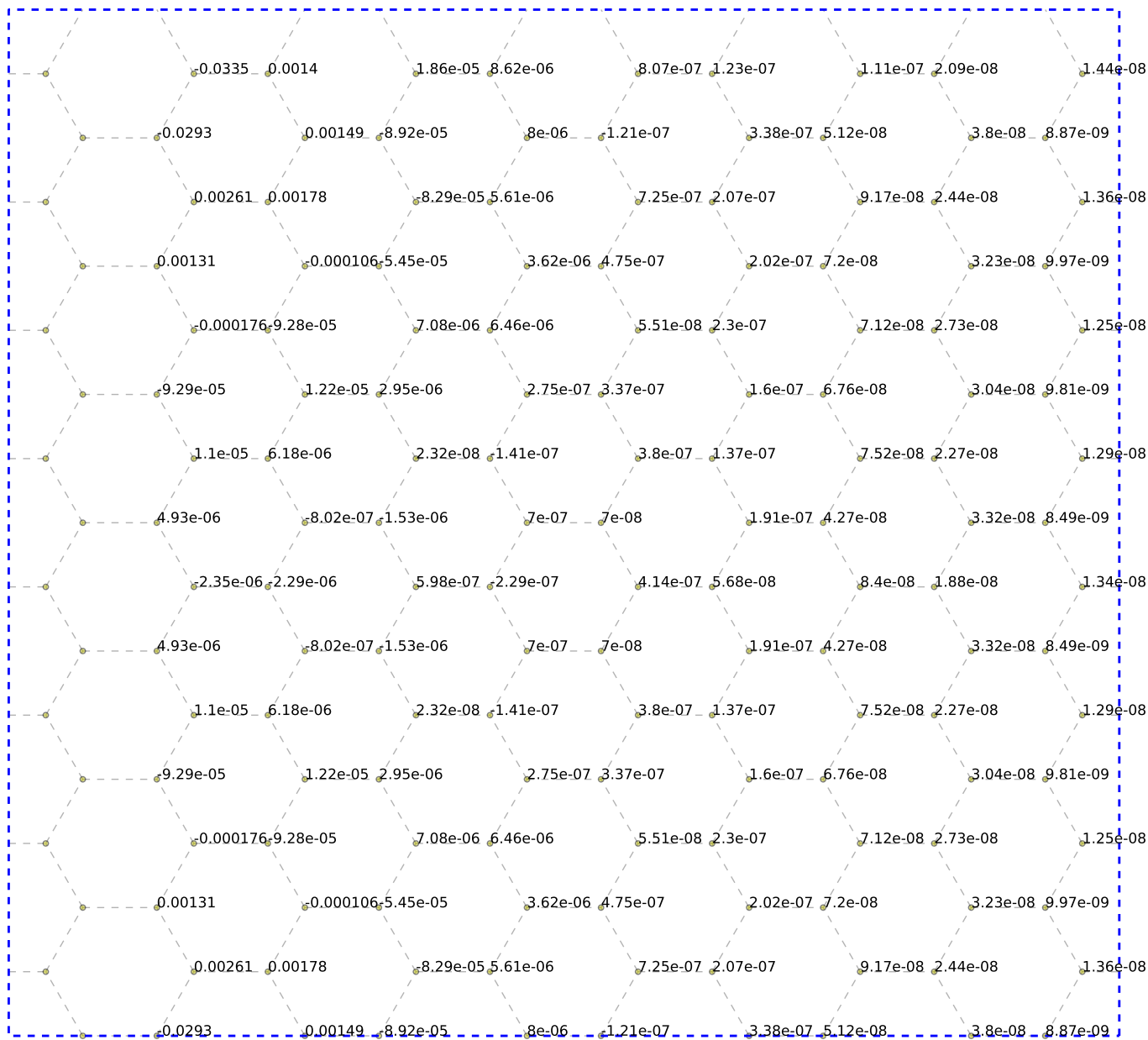


2.3 Large N Boson Plots

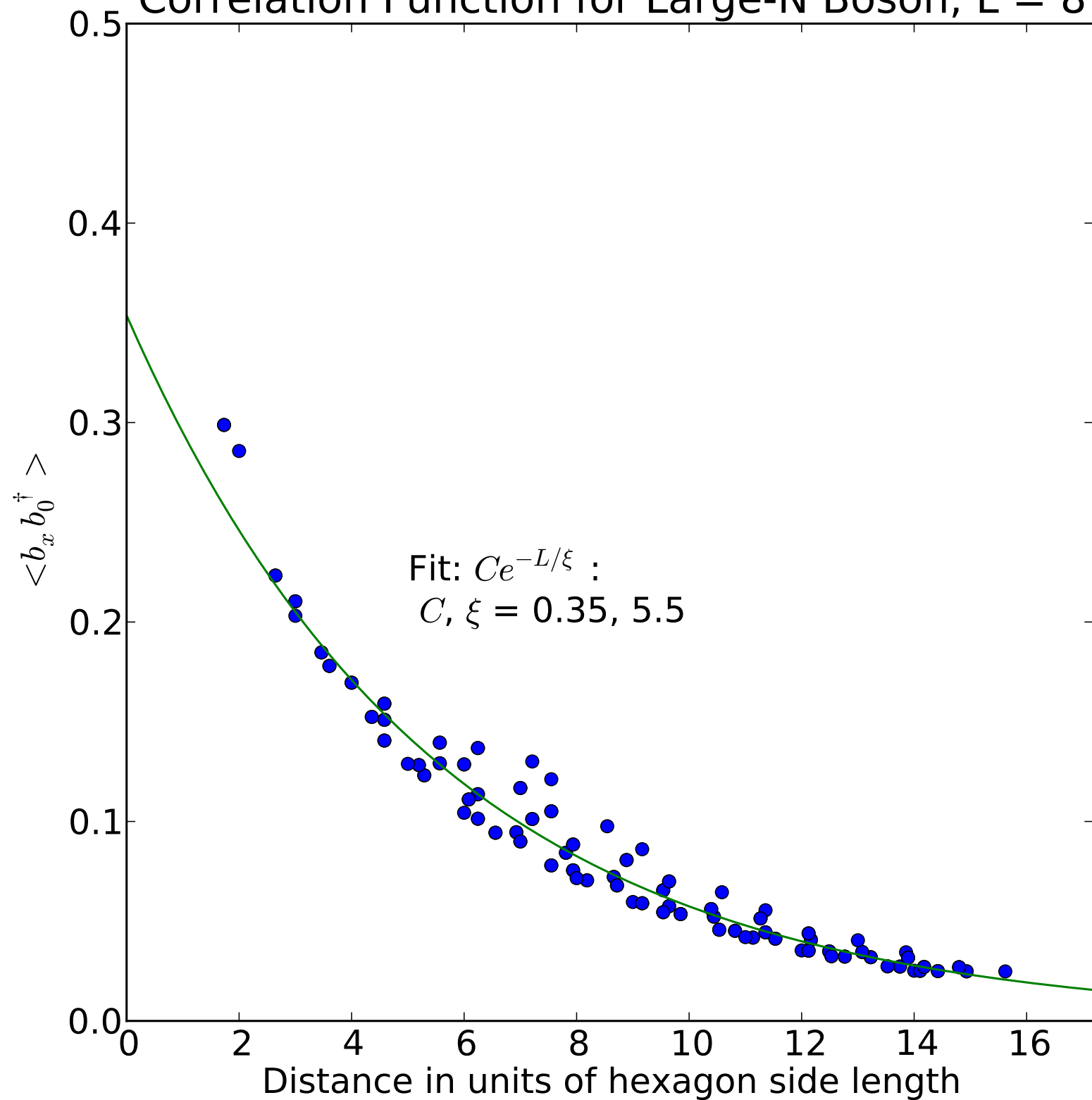




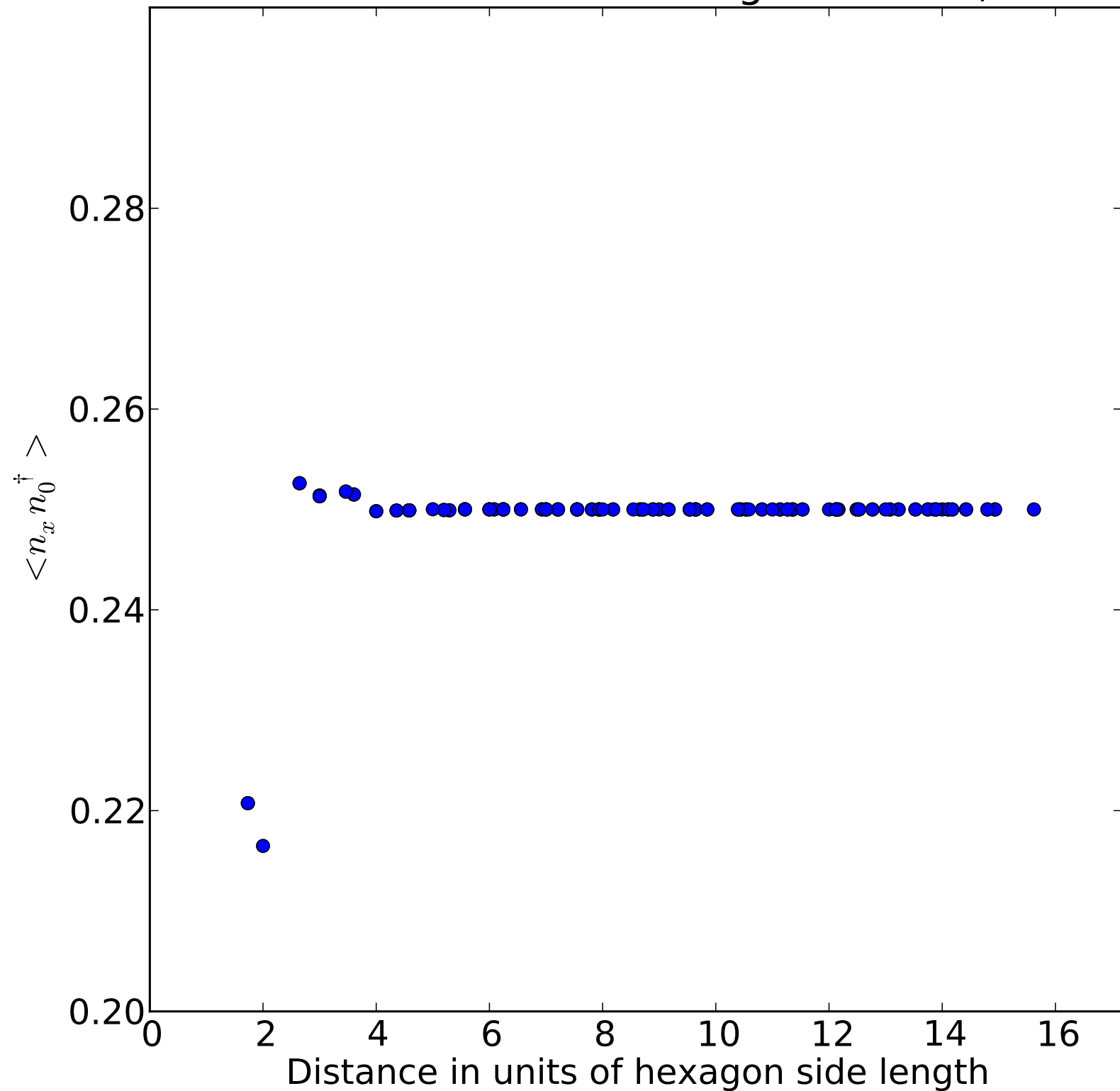




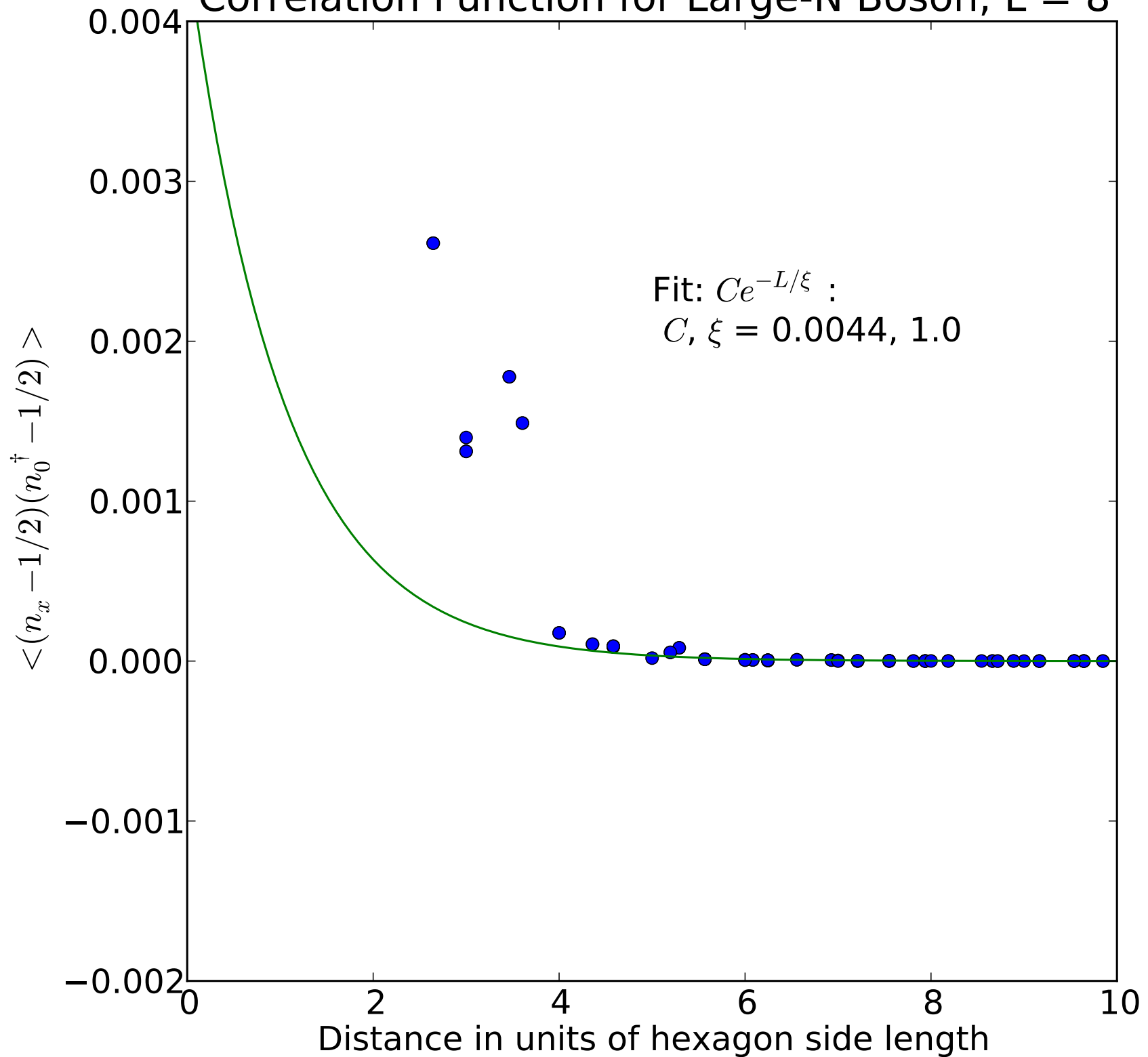
Correlation Function for Large-N Boson, L = 8



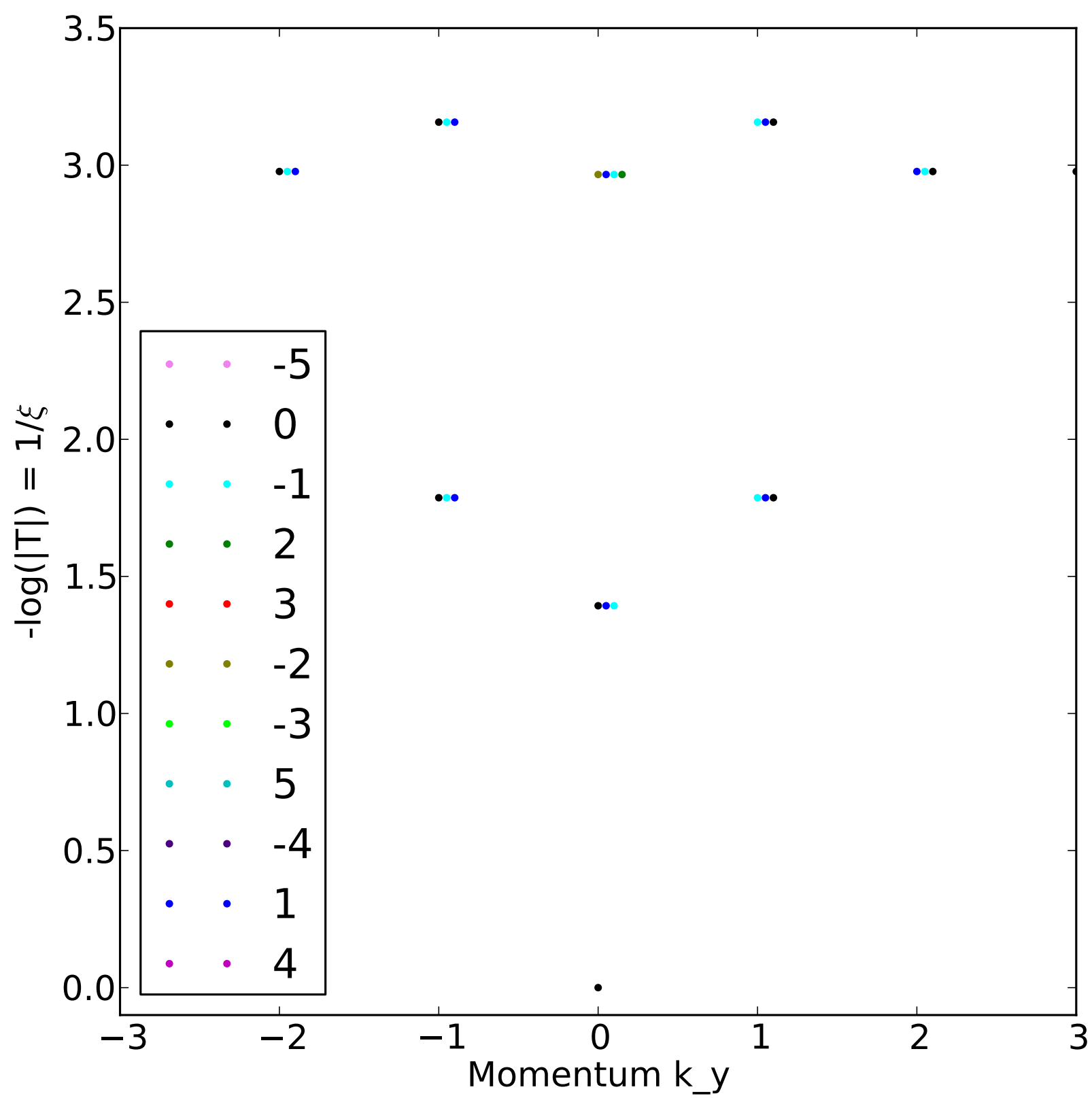
Correlation Function for Large-N Boson, $L = 8$



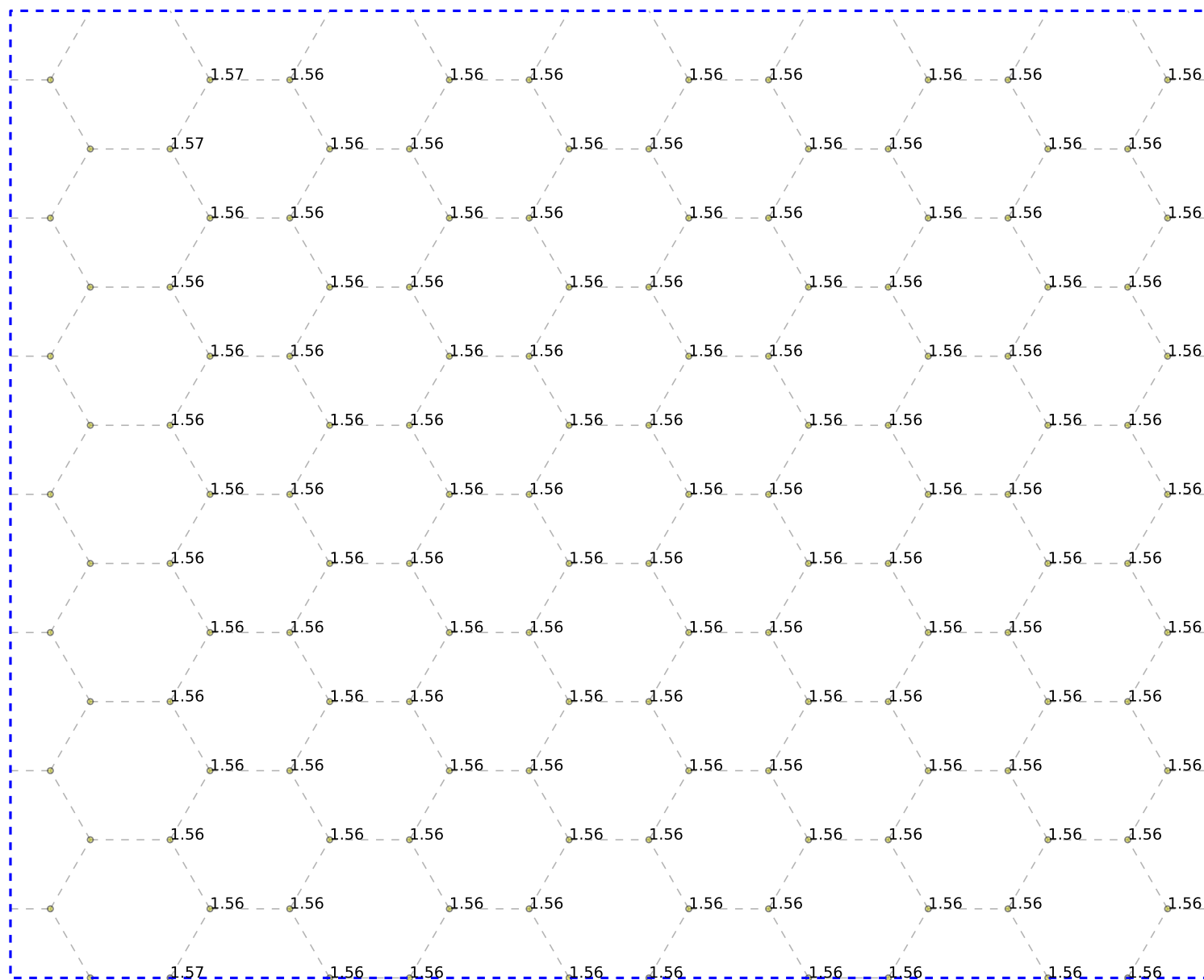
Correlation Function for Large-N Boson, L = 8



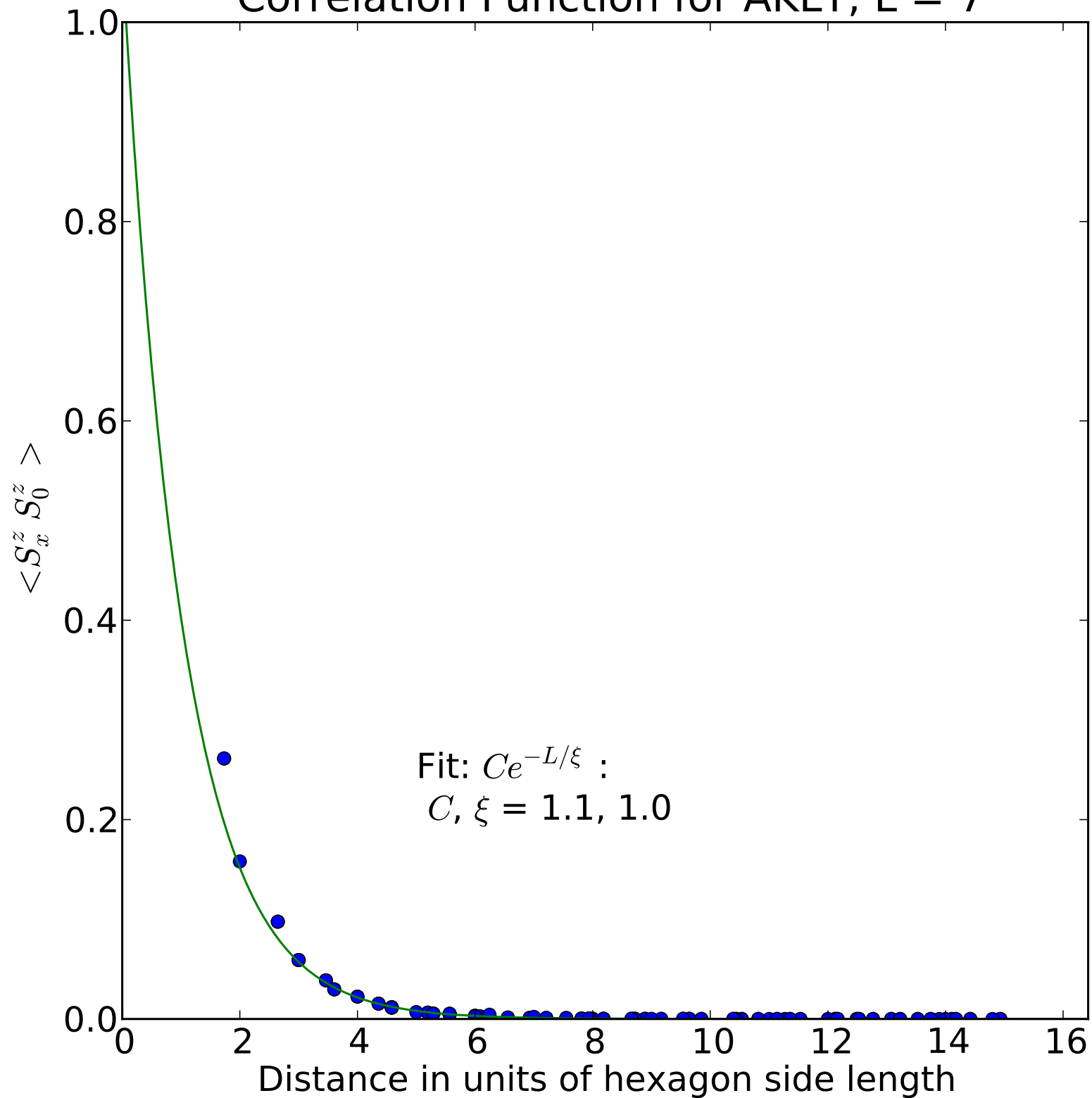
2.4 AKLT



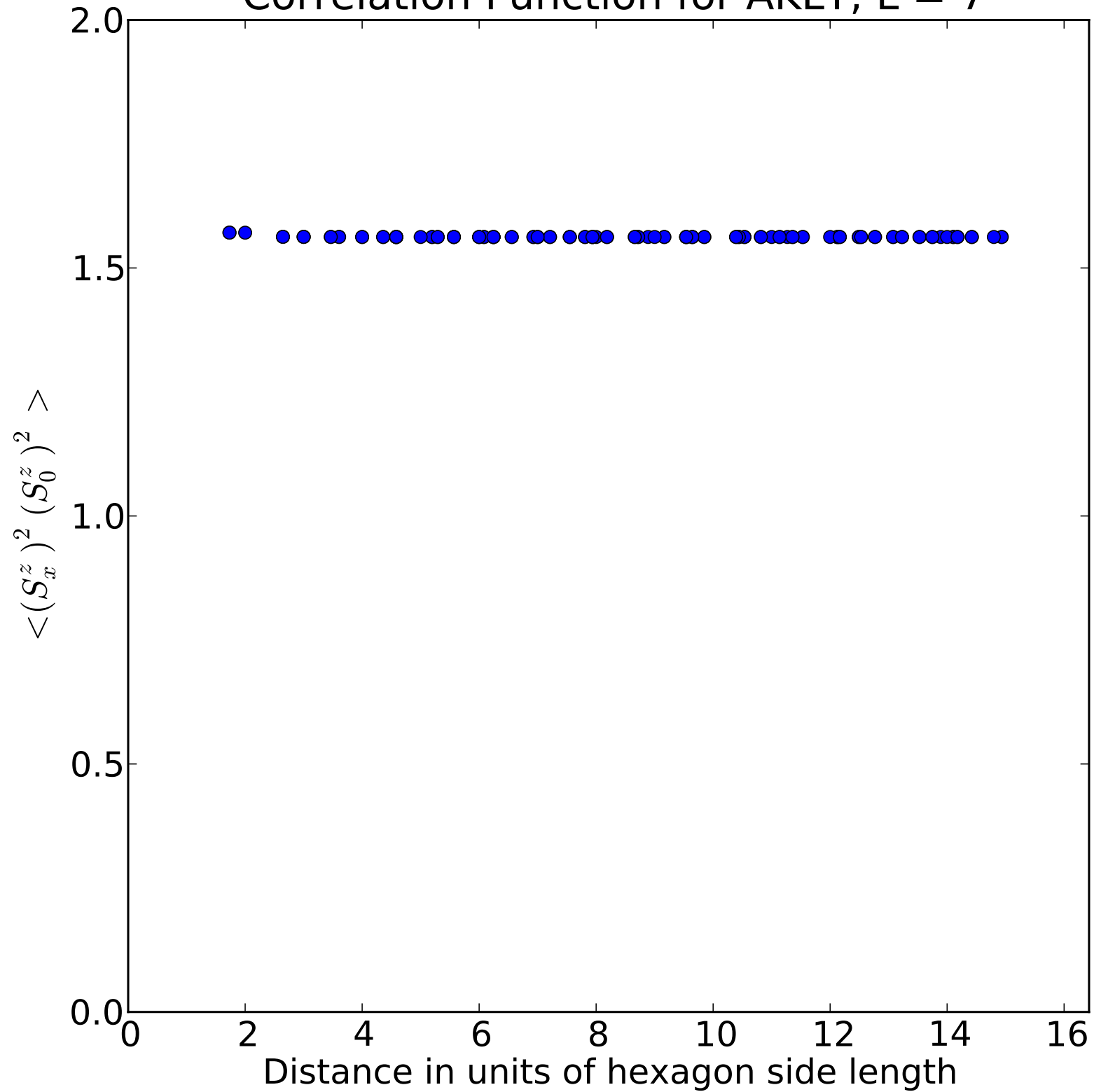




Correlation Function for AKLT, $L = 7$



Correlation Function for AKLT, L = 7



Caution: AKLT data preliminary, not checked in detail.