results of t' = 0, U = 6

April 1, 2015

Abstract

This report contains results of t'=0, U=6, T=0.5, 0.25, 0.125 which are simulated at fixed n=0.3, 0.6. We present four physical quantities including energy density E, kinetic energy density K, double occupancy density D and chemical potential μ . Three techniques have been used including $G^2\Gamma$ -scheme, $[G^{(0)}]^2\Gamma^{(0)}$ -scheme and $[G^{(0)}]^2U$ -scheme. Extrapolation(in the order N) figures are shown in Section 2,3,4, and final results($N \to \infty$) are shown in Table 1, 2, 3.

1 Fitting table

Table 1: Extrapolation results: $G^2\Gamma$ and $[G^{(0)}]^2\Gamma^{(0)}$ series for $U=6,\,T=0.5$

	n	1.0	0.875	0.8	0.6	0.3
\overline{E}	$G^2\Gamma$	-	-	-	-	-0.777(2)
	$[G^{(0)}]^2\Gamma^{(0)}$	-	-	-	-	-0.779(3)
K	$G^2\Gamma$	-	-	-	-	-0.8115(30)
	$[G^{(0)}]^2\Gamma^{(0)}$	-	-	-	-	-0.8112(20)
D	$G^2\Gamma$	-	-	-	-	0.0053(5)
	$[G^{(0)}]^2\Gamma^{(0)}$	-	-	-	-	0.0052(5)
μ	$G^2\Gamma$	-	-	-	-	-1.952(10)
	$[G^{(0)}]^2\Gamma^{(0)}$	-	-	-	-	-1.964(10)

2 Fitting table

Table 2: Extrapolation results: $G^2\Gamma$ and $[G^{(0)}]^2\Gamma^{(0)}$ series for $U=6,\,T=0.25$

	n	1.0	0.875	0.8	0.6	0.3
\overline{E}	$G^2\Gamma$	-	-	-	-	-0.841(2)
	$[G^{(0)}]^2\Gamma^{(0)}$	-	-	-	-	-0.840(3)
K	$G^2\Gamma$	-	-	-	-	-0.877(2)
	$[G^{(0)}]^2\Gamma^{(0)}$	-	-	-	-	-0.878(3)
D	$G^2\Gamma$	-	-	-	-	0.0060(5)
	$[G^{(0)}]^2\Gamma^{(0)}$	-	-	-	-	0.0063(7)
μ	$G^2\Gamma$	-	-	-	-	-1.843(10)
	$[G^{(0)}]^2\Gamma^{(0)}$	-	_	-	-	-1.842(20)

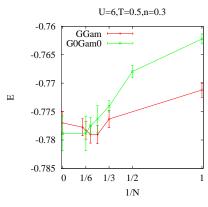
3 Fitting table

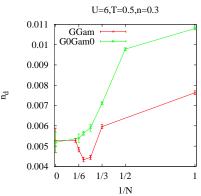
Table 3: Extrapolation results: $G^2\Gamma$ and $[G^{(0)}]^2\Gamma^{(0)}$ series for $U=6,\,T=0.125$

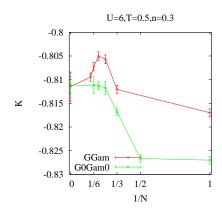
	n	1.0	0.875	0.8	0.6	0.3
\overline{E}	$G^2\Gamma$	-	-	-	-	-0.858(3)
	$[G^{(0)}]^2\Gamma^{(0)}$	-	-	-	-	-0.855(7)
K	$G^2\Gamma$	-	-	-	-	-0.8956(20)
	$[G^{(0)}]^2\Gamma^{(0)}$	-	-	-	-	-0.8965(40)
D	$G^2\Gamma$	-	-	-	-	0.0064(5)
	$[G^{(0)}]^2\Gamma^{(0)}$	-	-	-	-	0.0067(6)
μ	$G^2\Gamma$	-	-	-	-	-1.819(10)
	$[G^{(0)}]^2\Gamma^{(0)}$	-	-	-	-	-1.83(2)

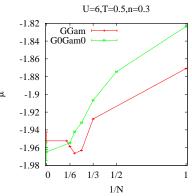
4 T = 0.5

4.1 T = 0.5, n = 0.3

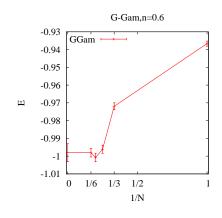


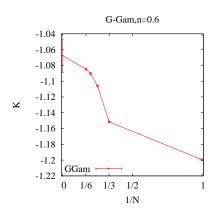


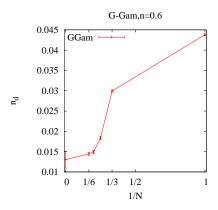


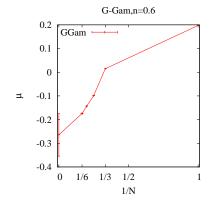


4.2 T = 0.5, n = 0.6

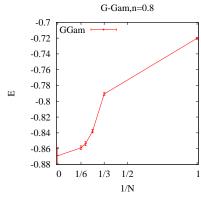


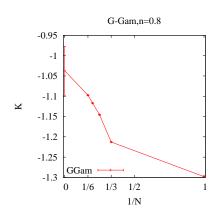


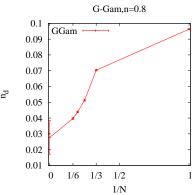


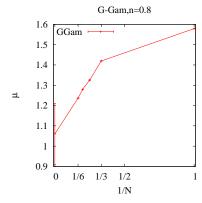


4.3 T = 0.5, n = 0.8



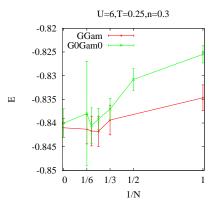


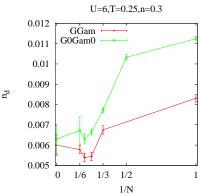


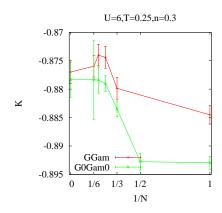


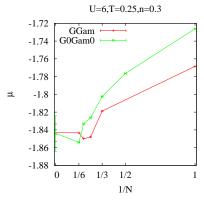
T = 0.25

5.1 T = 0.25, n = 0.3

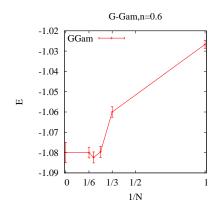


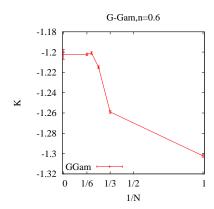


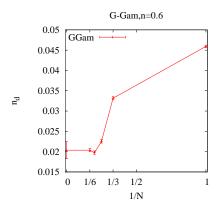


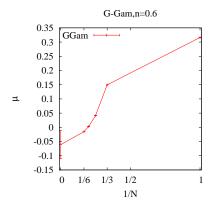


5.2 T = 0.25, n = 0.6

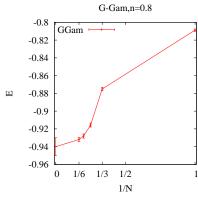


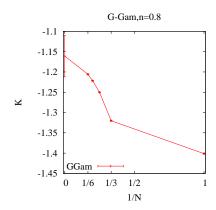


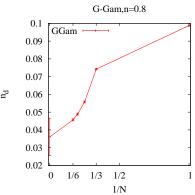


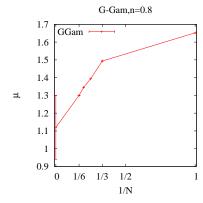


5.3 T = 0.25, n = 0.8



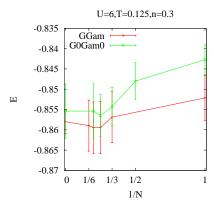


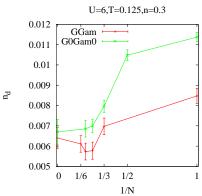


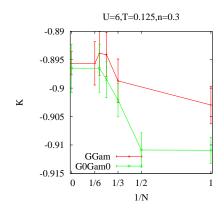


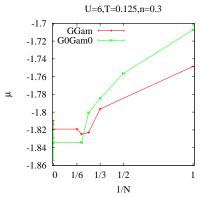
6 T = 0.125

6.1 T = 0.125, n = 0.3









6.2 T = 0.125, n = 0.6

