

$mg = 1.0$ ,  $U = 1.7$ ,  $\mu = -0.5$ ,  $N$

$T/T_c = 8.459314332920282e-08$   
 $T/T_c = 0.5$   
 $T/T_c = 0.95$   
 $T/T_c = 0.98$   
 $T/T_c = 1.0$

