

4(c)

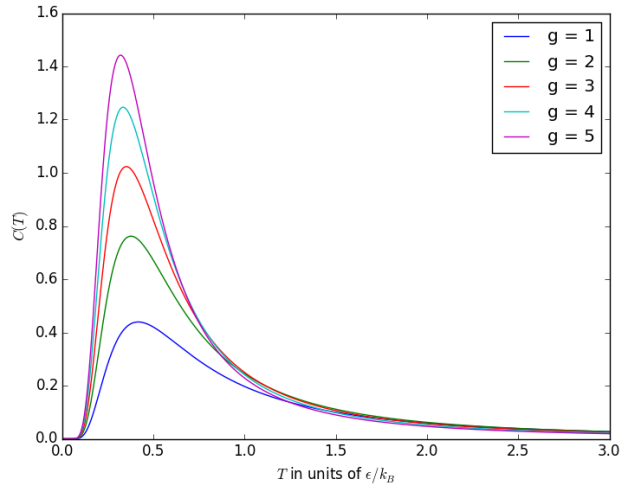


Figure 1: This is the plot obtained when  $C(T)$  is plotted against  $T$ , where  $C(T)$  is in units of  $k_B$ .

(d)

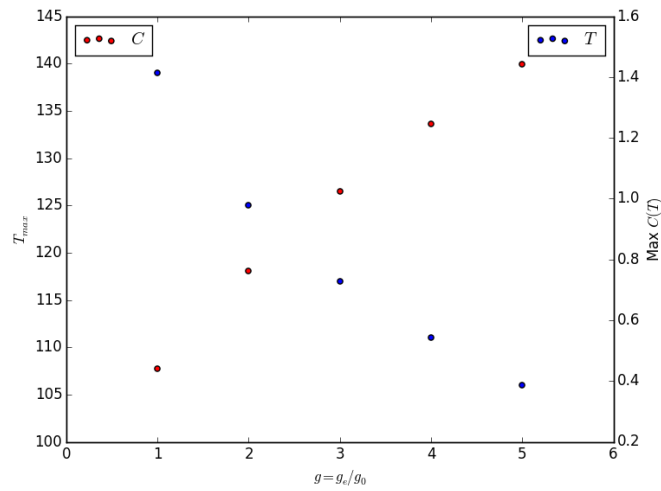


Figure 2: A plot of  $C(T_{max})$  vs  $g = g_e/g_0$  in red and  $T_{max}$  vs  $g$  in blue.

5(e)

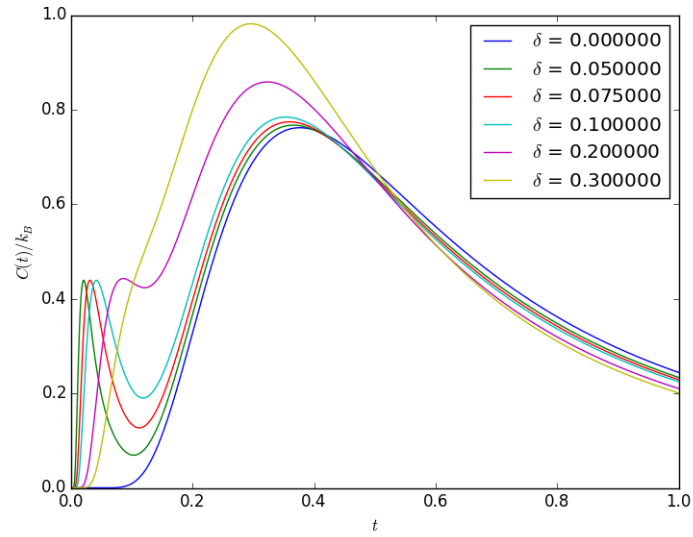


Figure 3: A plot of  $C(T_{max})$  vs  $g = g_e/g_0$  in red and  $T_{max}$  vs  $g$  in blue.