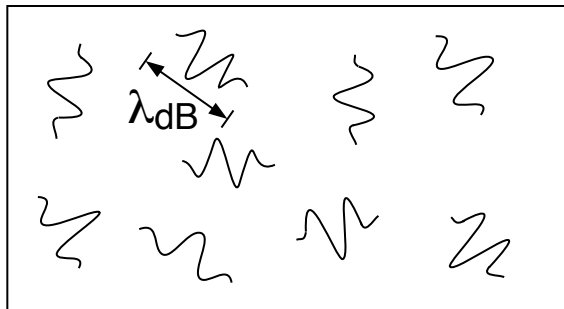
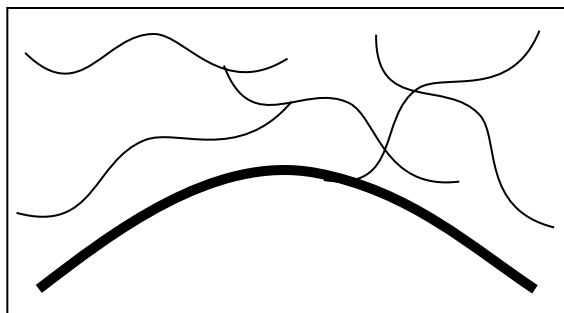


**High
Temperature T:**
thermal velocity v
density d^{-3}
"Billiard balls"

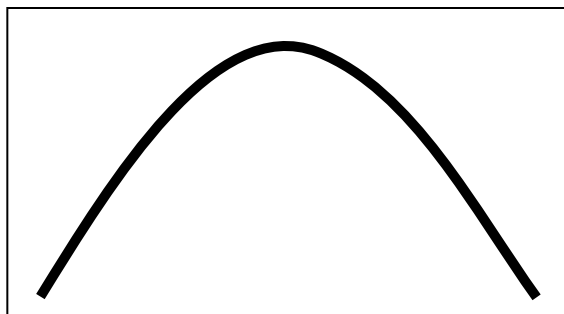


**Low
Temperature T:**
De Broglie wavelength
 $\lambda_{dB} = h/mv \propto T^{-1/2}$
"Wave packets"



**$T = T_c$:
BEC**

$\lambda_{dB} \approx d$
"Matter wave overlap"



**$T = 0$:
Pure Bose
condensate**
"Giant matter wave"