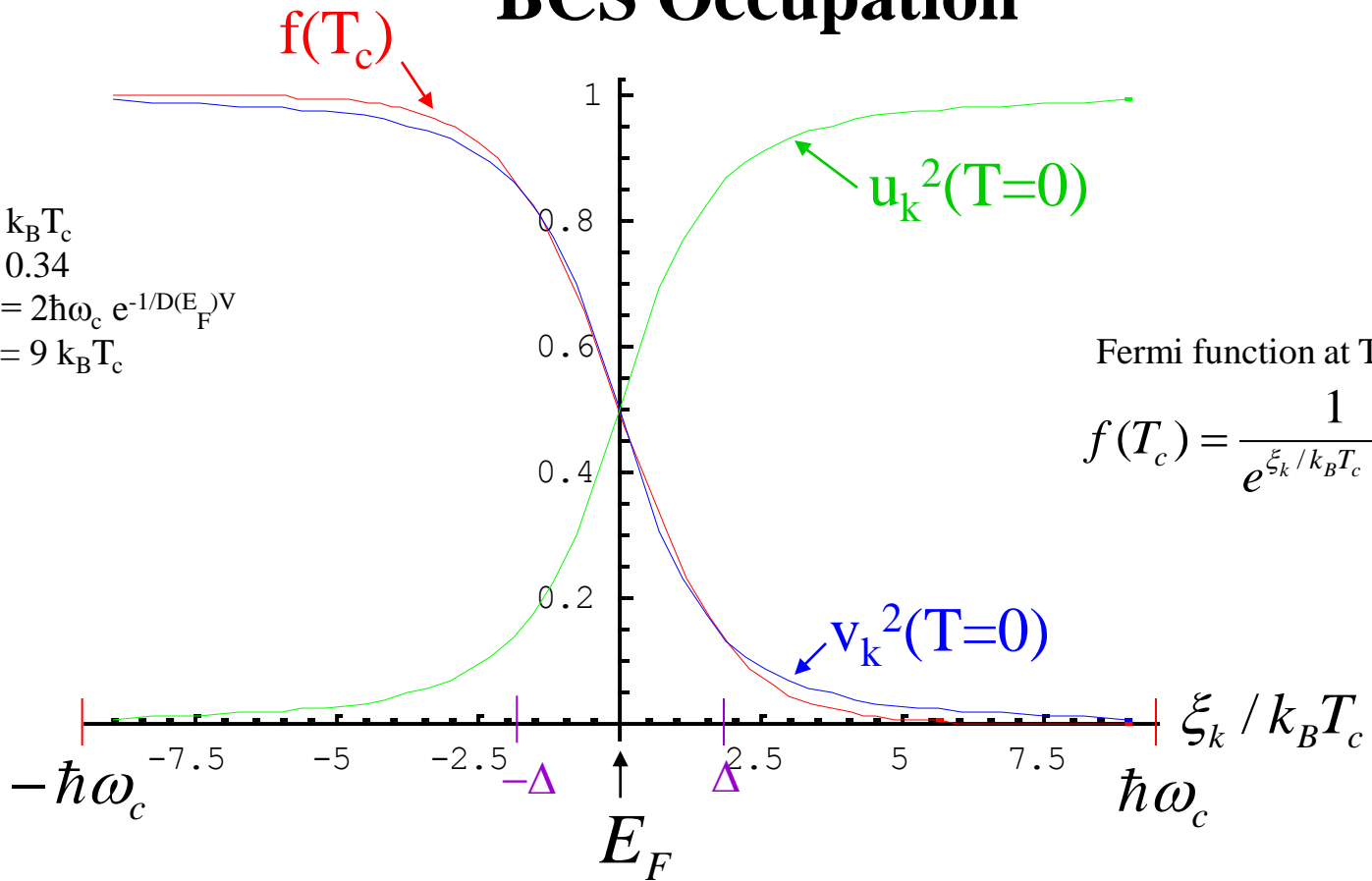


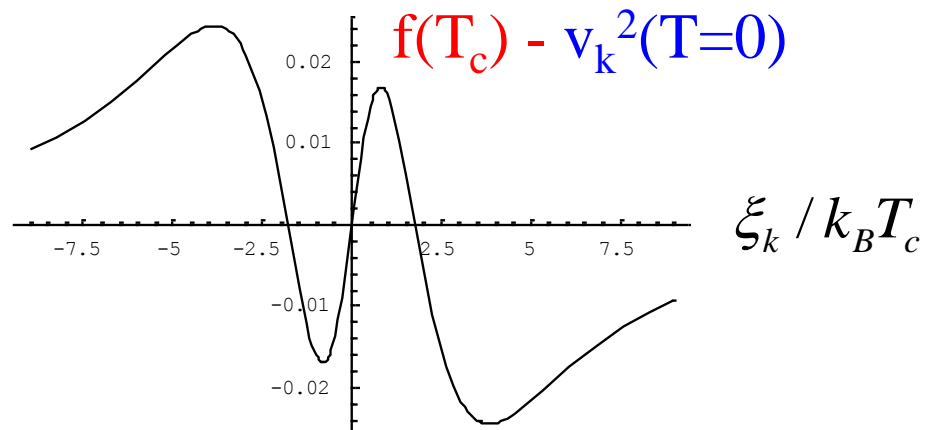
BCS Occupation

Take $\Delta = 1.76 k_B T_c$
 and $D(E_F)V = 0.34$
 Hence with $\Delta = 2\hbar\omega_c e^{-1/D(E_F)V}$
 one finds $\hbar\omega_c = 9 k_B T_c$

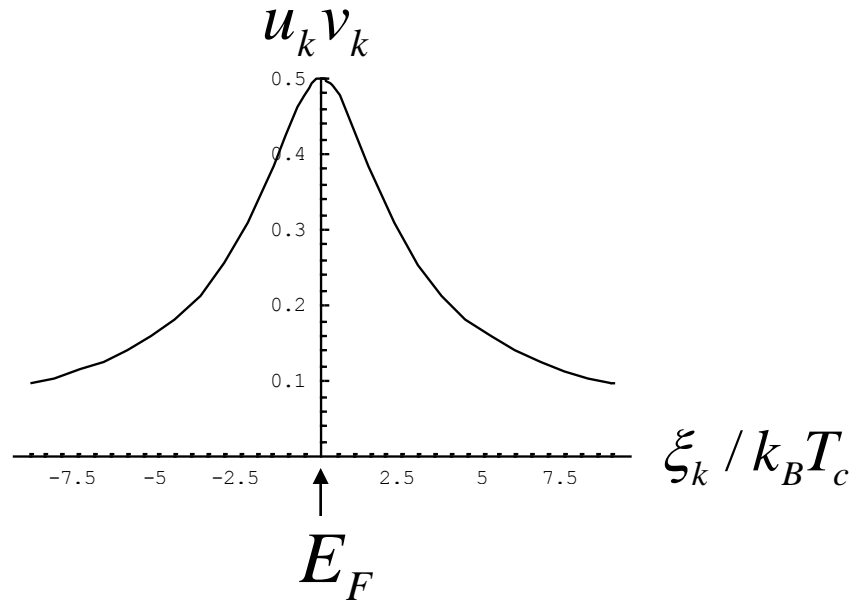


Fermi function at T_c :

$$f(T_c) = \frac{1}{e^{\xi_k / k_B T_c} + 1}$$



$$\Delta_k = -\sum_l V_{kl} u_l v_l$$



$$V = \sum_{k,l} V_{kl} u_k v_k u_l v_l$$

