

Metall	$Z_V$	atomare Dichte $n (10^{28} m^{-3})$	$-\frac{1}{R_H n e} \approx Z_V^{exp}$	$\hbar\omega_p (eV)$	$\hbar\omega_p^{exp} (eV)$
Li	1	4,6	0,8	8,3	6,2
Na	1	2,5	1,0	6,2	
K	1	1,3	1,1	4,3	3,7
Cu	1	8,5	1,3	10,8	
Au	1	5,9	1,5	9,4	
Mg	2	4,3	1,6	10,9	10,6
Be	2	12,4	-0,2	18,6	
Al	3	6,0	3,5	15,8	15,3
Bi	5	2,8	$4,5 \cdot 10^{-4}$	13,9	

Tab. 4-1

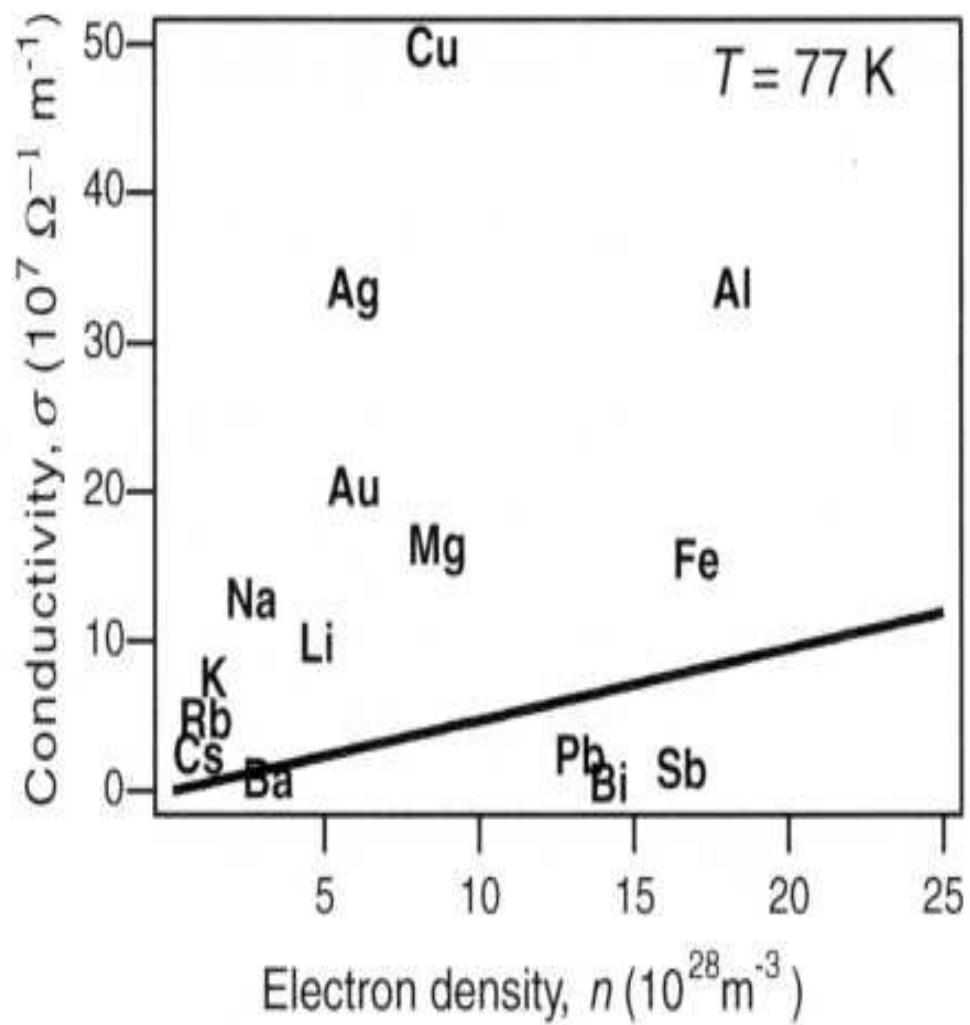
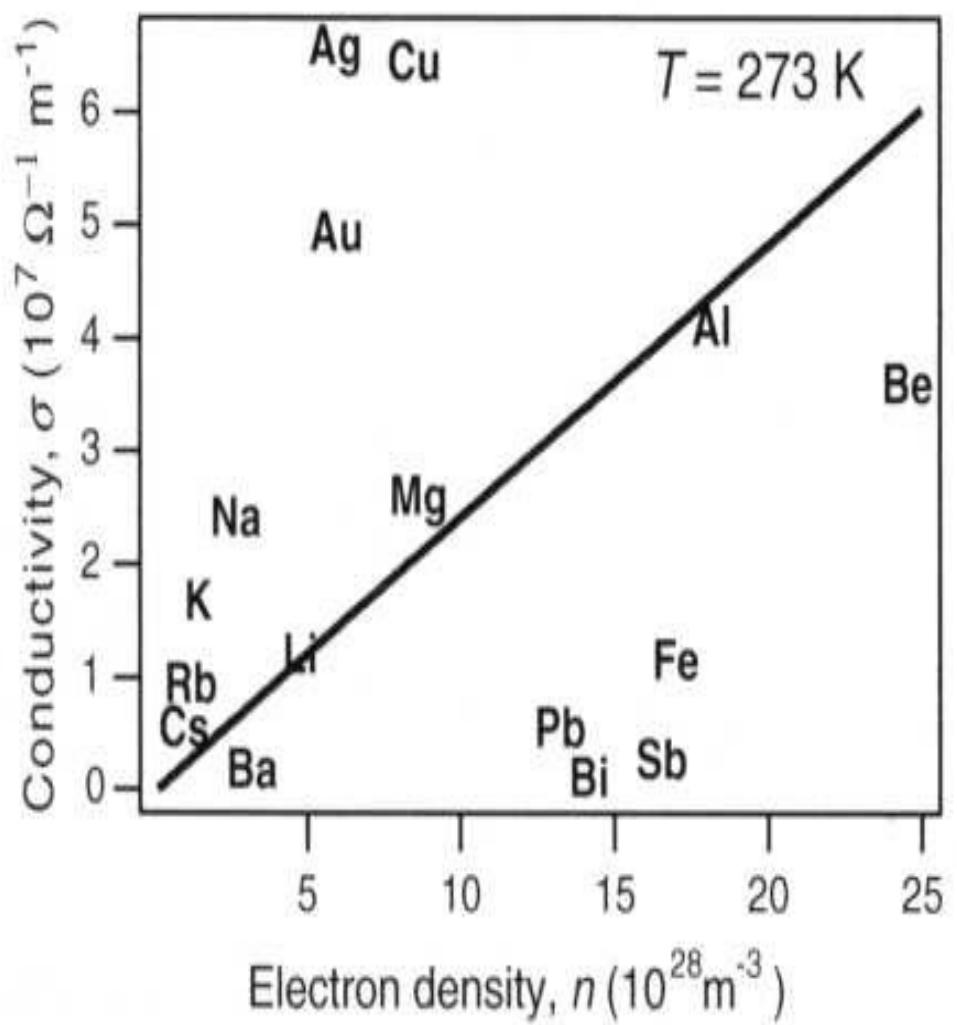


Fig. 4-1

## Resistivitaet als Funktion der Temperatur fuer Na-Proben verschiedener Reinheit

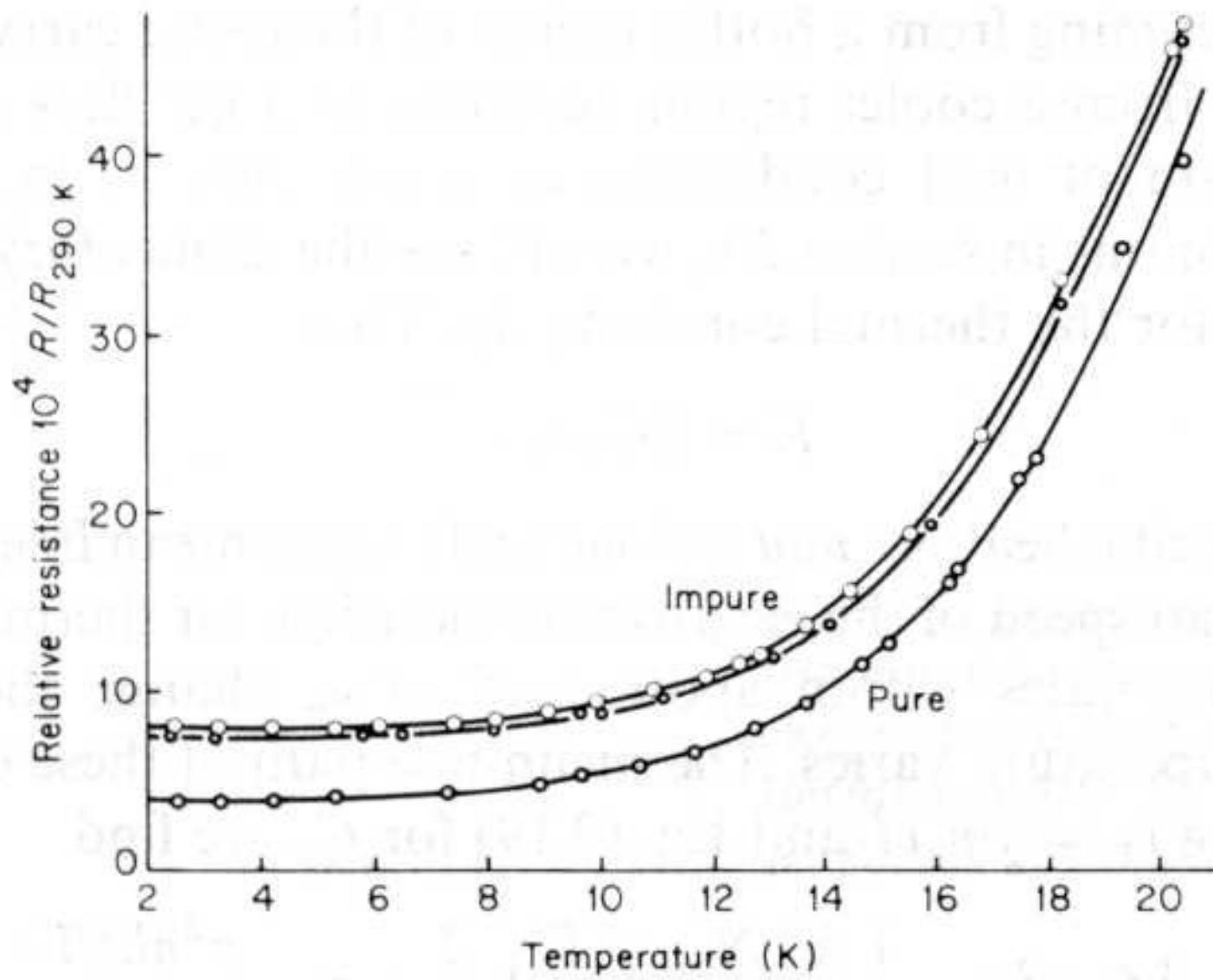


Fig. 4-2

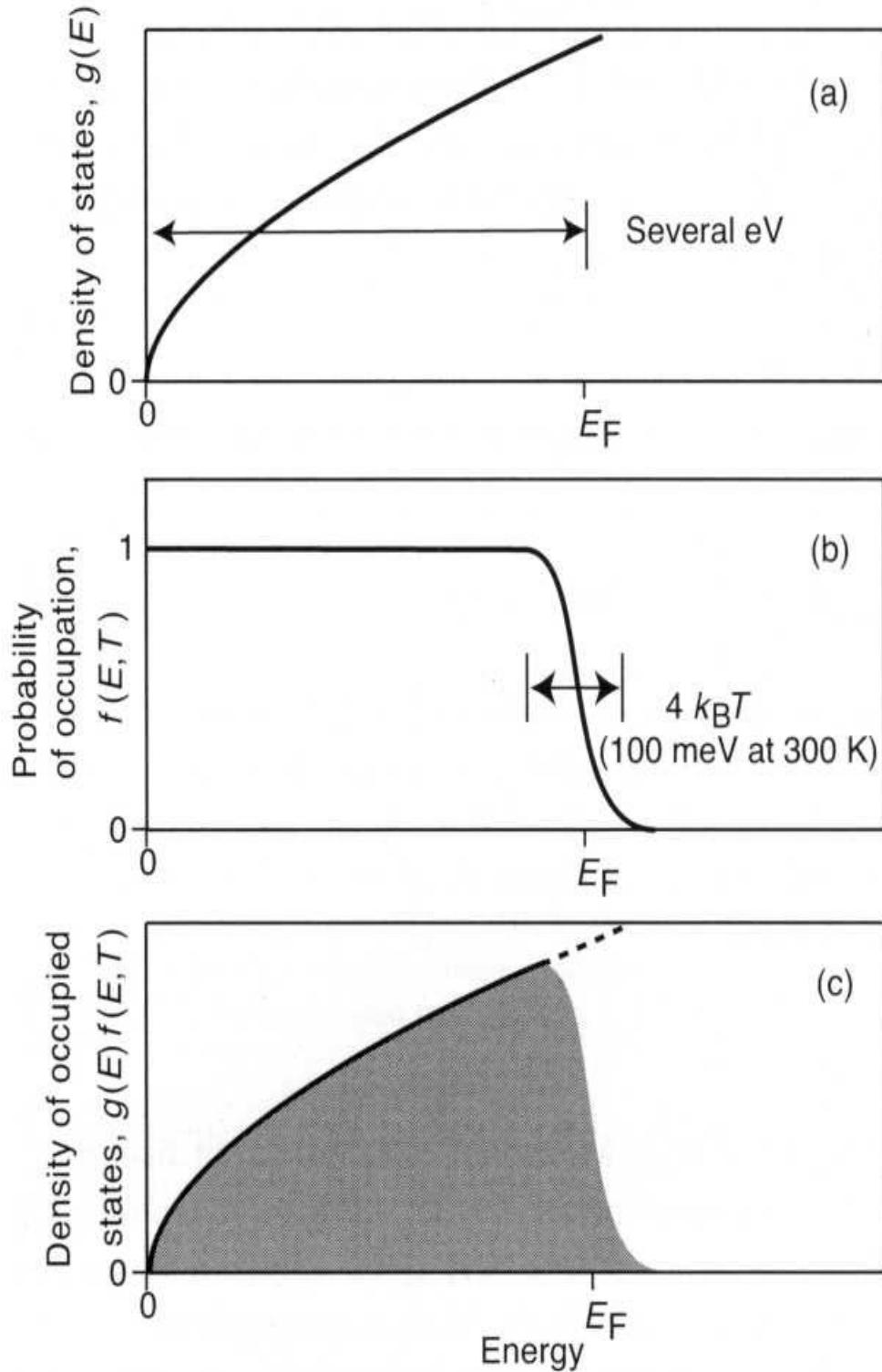


Fig. 4-3

Metall	$E_F \text{ (eV)}$	$v_F \left(10^6 \frac{m}{s}\right)$	$T_F(10^4 K)$
Na	3,3	1,1	3,6
Ag	5,5	1,4	6,4
Cu	7,0	1,6	8,2
Al	11,7	2,0	13,5

Tab. 4-2

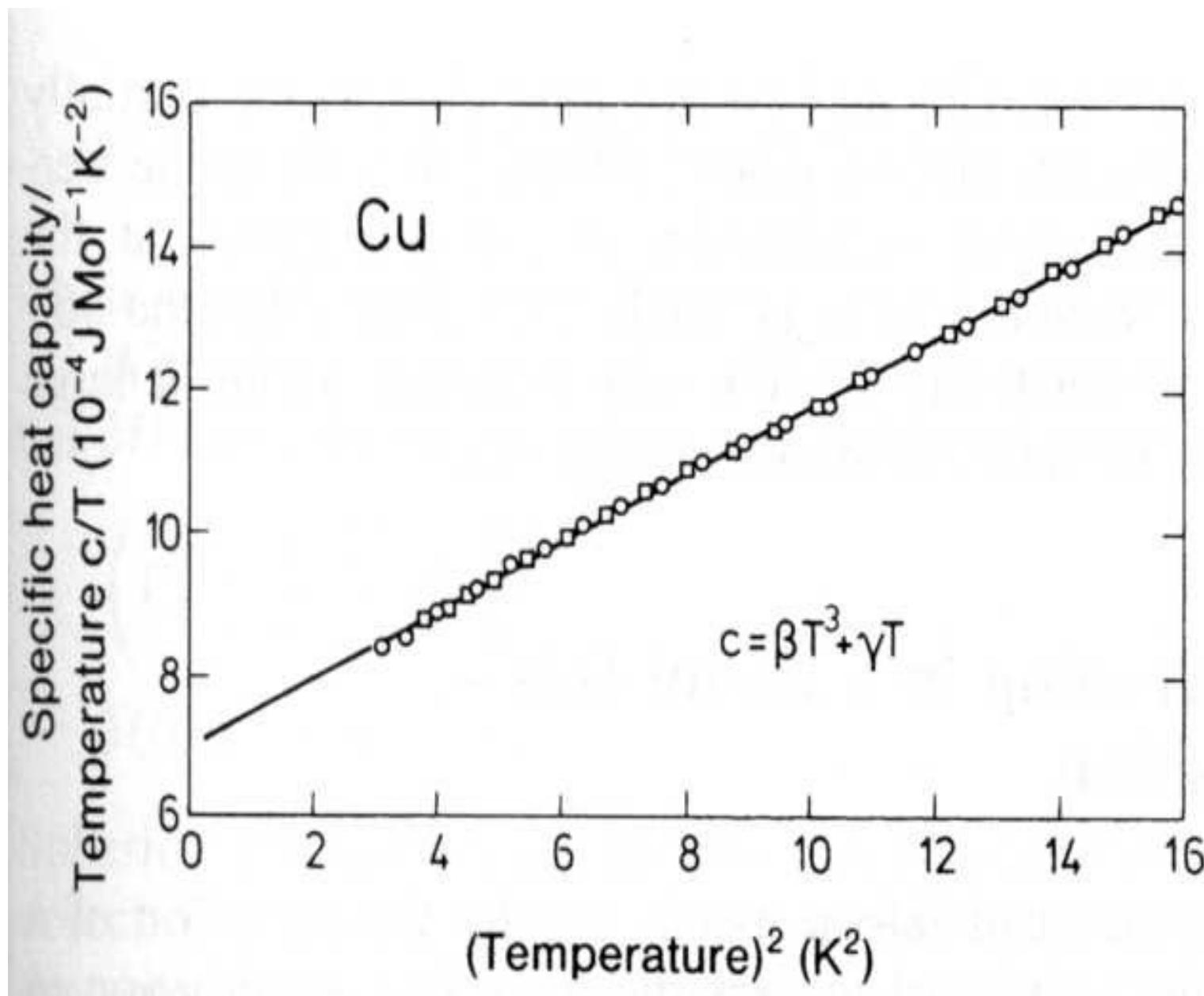


Fig. 4-4

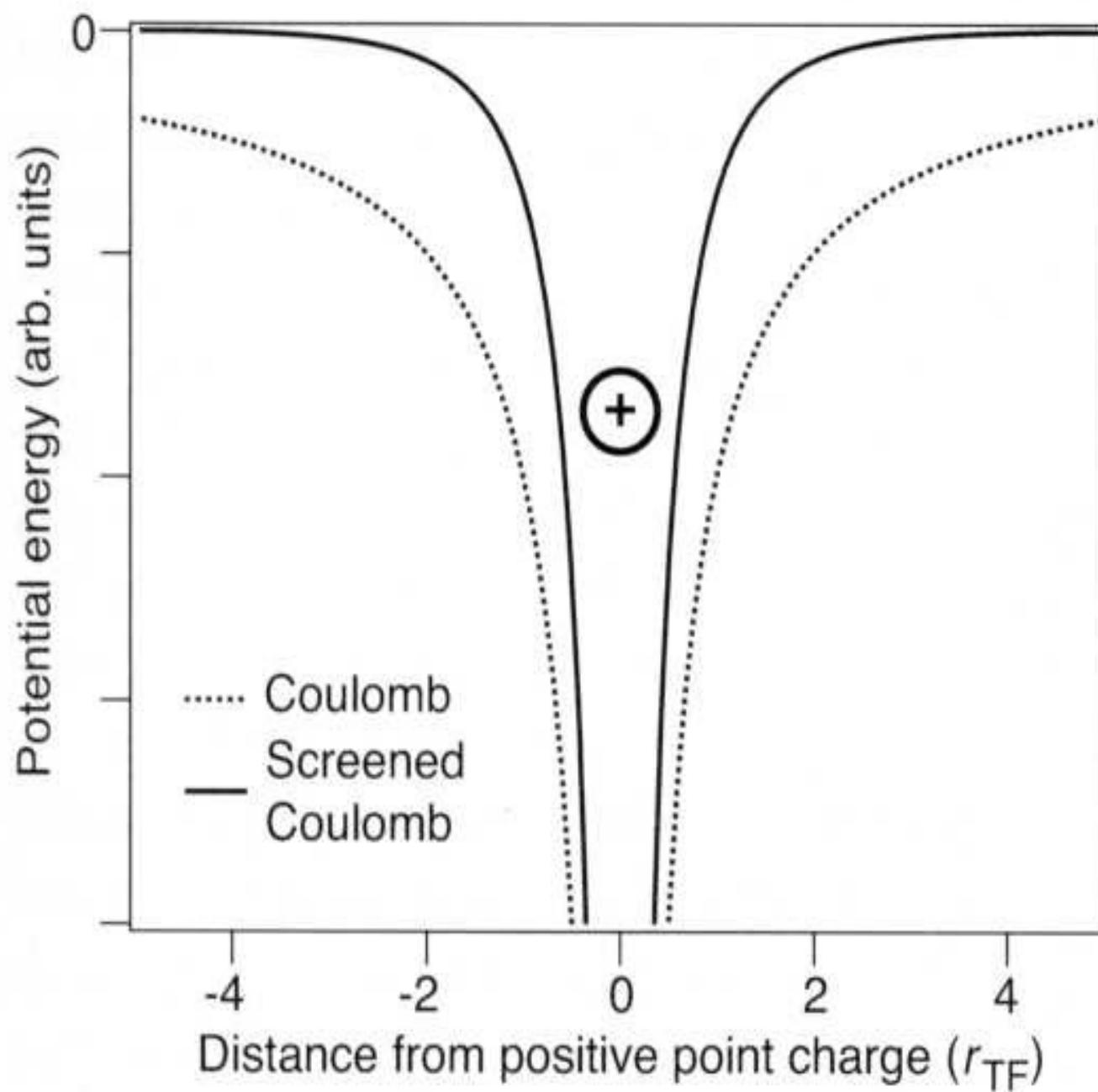


Fig. 4-5