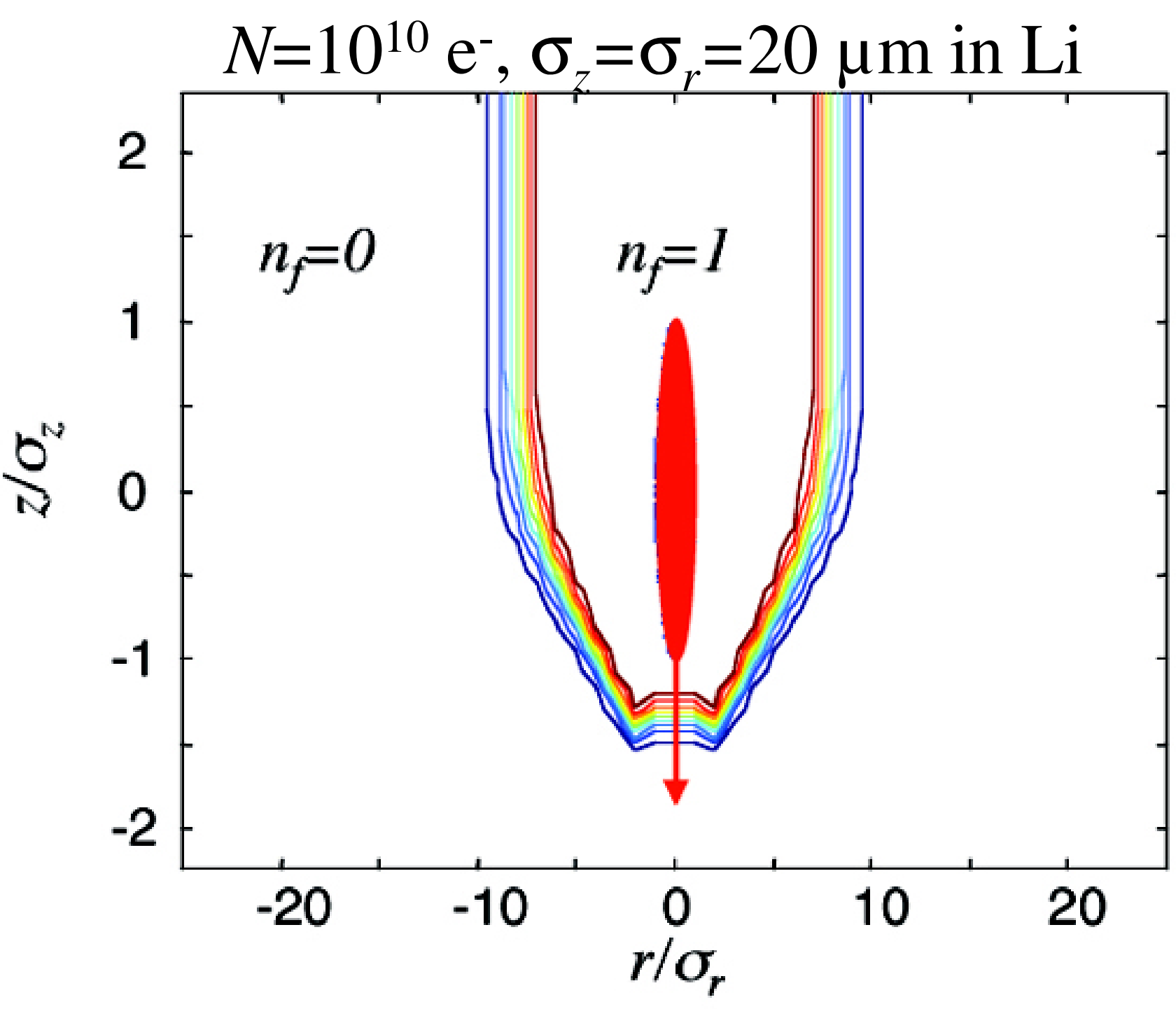

$N=10^{10}$ e$^-$, $\sigma_z=\sigma_r=20$ μm in Li
$n_f=0$
$n_f=1$
2
1
0
-1
-2
z/σ_z
-20
-10
0
10
20
r/σ_r