$$U = \int_0^\infty \epsilon \, d\epsilon \, g(\epsilon) f(\epsilon)$$ definizioa

$$\Delta U = \int_0^\infty d\epsilon \; \epsilon \, g(\epsilon) f(\epsilon) - \int_0^{\epsilon_F} d\epsilon \; \epsilon \, g(\epsilon)$$

hauxe kalkulatu behar da.

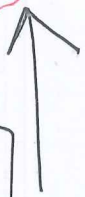
$f(\epsilon)$ matrakua $T=0$

Hxitura-baldintza: ϵ_F

$$\left\{ N = \int_0^\infty d\epsilon \, g(\epsilon) f(\epsilon) = \int_0^{\epsilon_F} d\epsilon \, g(\epsilon) \right\}$$

$$\epsilon_F \cdot N = \int_0^\infty d\epsilon \cdot \epsilon_F \, g(\epsilon) f(\epsilon) = \int_0^{\epsilon_F} d\epsilon \; \epsilon_F g(\epsilon)$$

tantakaru!



$$\int_0^{\epsilon_F} d\epsilon \; \epsilon_F g(\epsilon) f(\epsilon) + \int_{\epsilon_F}^\infty d\epsilon \; \epsilon_F g(\epsilon) f(\epsilon)$$