$$\frac{RU^{1/3}}{\sqrt{X_1^2 + X_2^2 + X_3^2}} (X_1, X_2, X_3)$$

$$R_j$$

$$R_{j_{new}}$$

$$\epsilon$$

$$\Delta t$$

$$N\Delta t = L_D$$

$$\Delta t = L_D/N$$

$$\epsilon = N/L_D$$

$$\tau_D$$

$$L_D$$

$$k_{ET}^{tot} = \sum_{j}^{\#dopantes} k_{ET_j} = \tau_D \sum_{j} \left(\frac{R_0}{R_j}\right)^6$$

$$P_{ET} = 1 - e^{-k_{ET}^{tot}\Delta t}$$

$$P = 1 - e^{-\frac{\Delta t}{\tau_D}}$$

$$N = L_D/\epsilon$$

$$\Delta t = \frac{\epsilon}{L_D}\tau_D$$

$$Q = M_{ET}/M_{TOT}$$

$$M_{ET}$$

$$M_{TOT}$$