

Probability of Identity,  $\psi(r)$

$\bar{x}$

One Long Jump

$$\psi \propto \frac{D_\alpha}{\rho \mu^2} r^{-2-\alpha}$$

$\delta$

One Quick Jump

$$\psi \propto \frac{r^{-2+\alpha}}{D_\alpha \rho}$$

Diffusive Spreading

$$\psi \sim \frac{\text{Log}(\bar{x}/r)}{D_2 \rho}$$

Initial Contact

$$\psi \sim \delta^{-2+\alpha} / (D_\alpha \rho)$$

Initial Contact

$$\psi \sim \text{Log}(\bar{x}/\delta) / (D_2 \rho)$$