

Probability of Identity, $\psi(x)$

One Long Jump

$$\psi \propto \frac{D_\alpha}{\rho \mu^2} x^{-1-\alpha}$$

One Quick Jump

$$\psi \propto \frac{x^{-1+\alpha}}{D_\alpha \rho}$$

Initial Contact

$$\psi \sim \delta^{-1+\alpha} / (D_\alpha \rho)$$

Superdiffusive Spreading

$$\psi = \frac{e^{-(x/\bar{x})^{\alpha-1}}}{2 \alpha \sin(\pi / \alpha) \rho \mu \bar{x} + 1}$$

Diffusive Spreading

$$\psi = \frac{e^{-x/\bar{x}}}{4 \rho \mu \bar{x} + 1}$$

1

2

\bar{x}

δ

Probability of Identity, $\psi(r)$

\bar{x}

One Long Jump

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

δ

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

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