1 Dimensional Probability of Identity, $\psi(x)$

Distance, x

One Long Jump

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

One Quick Jump

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

Initial Contact

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

Superdiffusive Spreading

$$\psi(0) - \psi \sim \frac{x^{\alpha-1}}{D_\alpha \rho}$$

Diffusive Spreading

$$\psi \sim \frac{e^{-x/\bar{x}}}{\sqrt{\mu D_2} \, \rho}$$

$\bar{x}$

δ

1 2

Tail Parameter, α