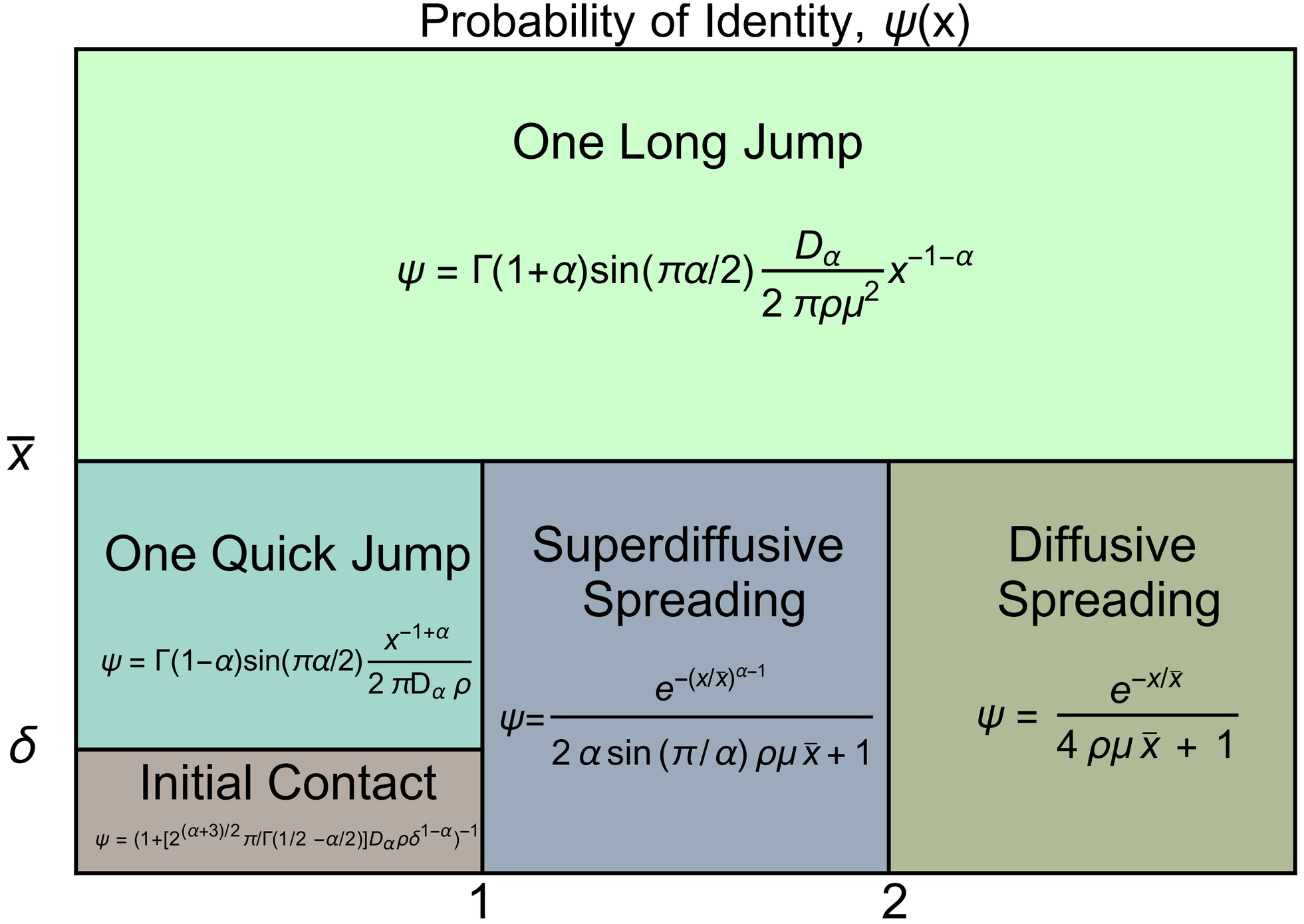
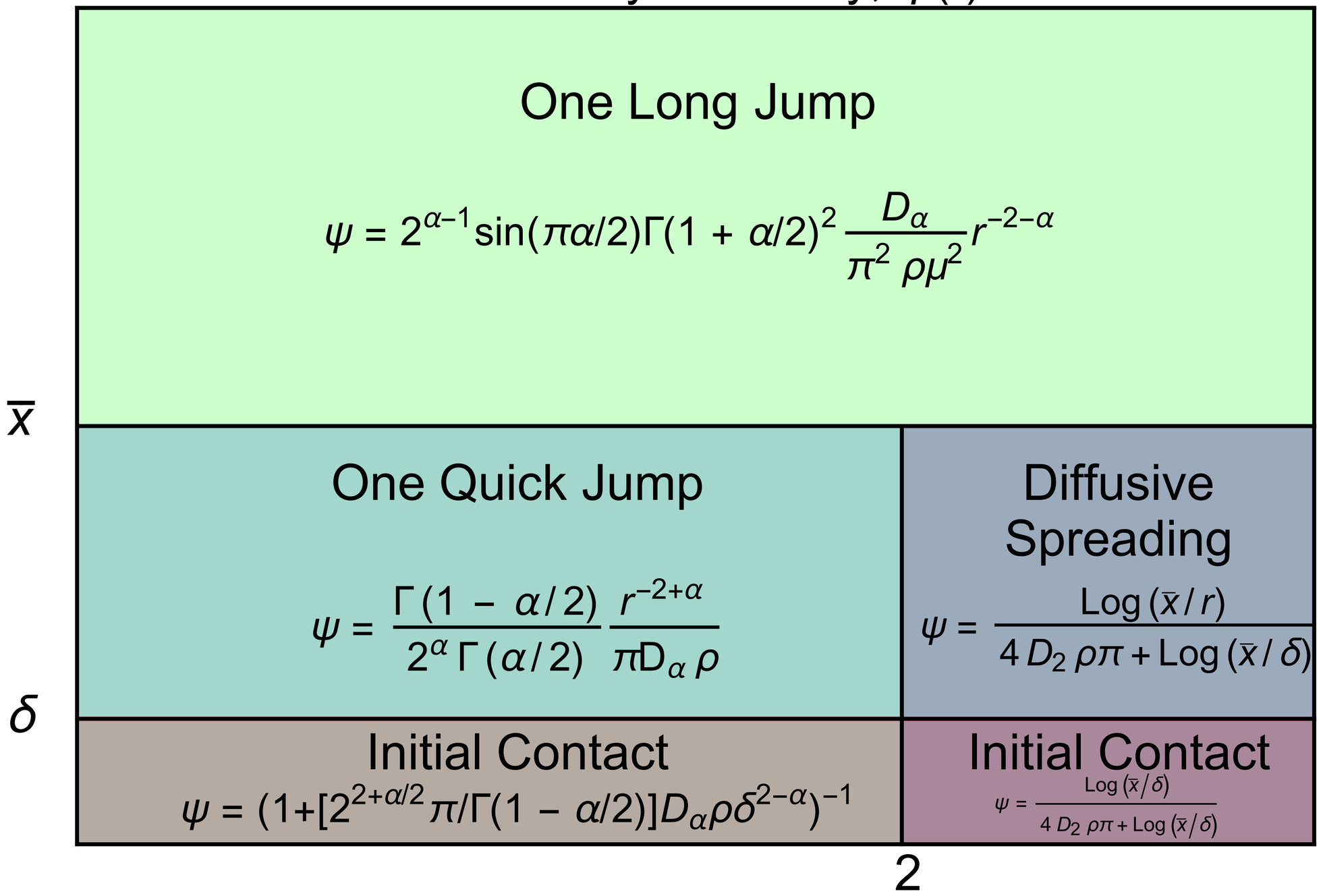

Probability of Identity, ψ(x)
One Long Jump
$\psi = \Gamma(1+\alpha)\sin(\pi\alpha/2)\frac{D_\alpha}{2\,\pi\rho\mu^2}x^{-1-\alpha}$
One Quick Jump
$\psi = \Gamma(1-\alpha)\sin(\pi\alpha/2)\frac{x^{-1+\alpha}}{2\,\pi D_\alpha\,\rho}$
Initial Contact
$\psi = (1+[2^{(\alpha+3)/2}\pi/\Gamma(1/2\ -\alpha/2)]D_\alpha\rho\delta^{1-\alpha})^{-1}$
Superdiffusive Spreading
$\psi = \frac{e^{-(x/\bar{x})^{\alpha-1}}}{2\,\alpha\sin(\pi/\alpha)\,\rho\mu\,\bar{x}+1}$
Diffusive Spreading
$\psi = \frac{e^{-x/\bar{x}}}{4\,\rho\mu\,\bar{x}\ +\ 1}$
$\bar{x}$
δ
1
2


Probability of Identity, ψ(r)
One Long Jump
$\psi = 2^{\alpha-1}\sin(\pi\alpha/2)\Gamma(1+\alpha/2)^2 \frac{D_\alpha}{\pi^2 \rho\mu^2} r^{-2-\alpha}$
One Quick Jump
$\psi = \frac{\Gamma(1-\alpha/2)}{2^\alpha \Gamma(\alpha/2)} \frac{r^{-2+\alpha}}{\pi D_\alpha \rho}$
Diffusive Spreading
$\psi = \frac{\mathrm{Log}(\bar{x}/r)}{4 D_2 \rho\pi + \mathrm{Log}(\bar{x}/\delta)}$
Initial Contact
$\psi = (1+[2^{2+\alpha/2}\pi/\Gamma(1-\alpha/2)]D_\alpha\rho\delta^{2-\alpha})^{-1}$
Initial Contact
$\psi = \frac{\mathrm{Log}(\bar{x}/\delta)}{4 D_2 \rho\pi + \mathrm{Log}(\bar{x}/\delta)}$
$\bar{x}$
δ
2