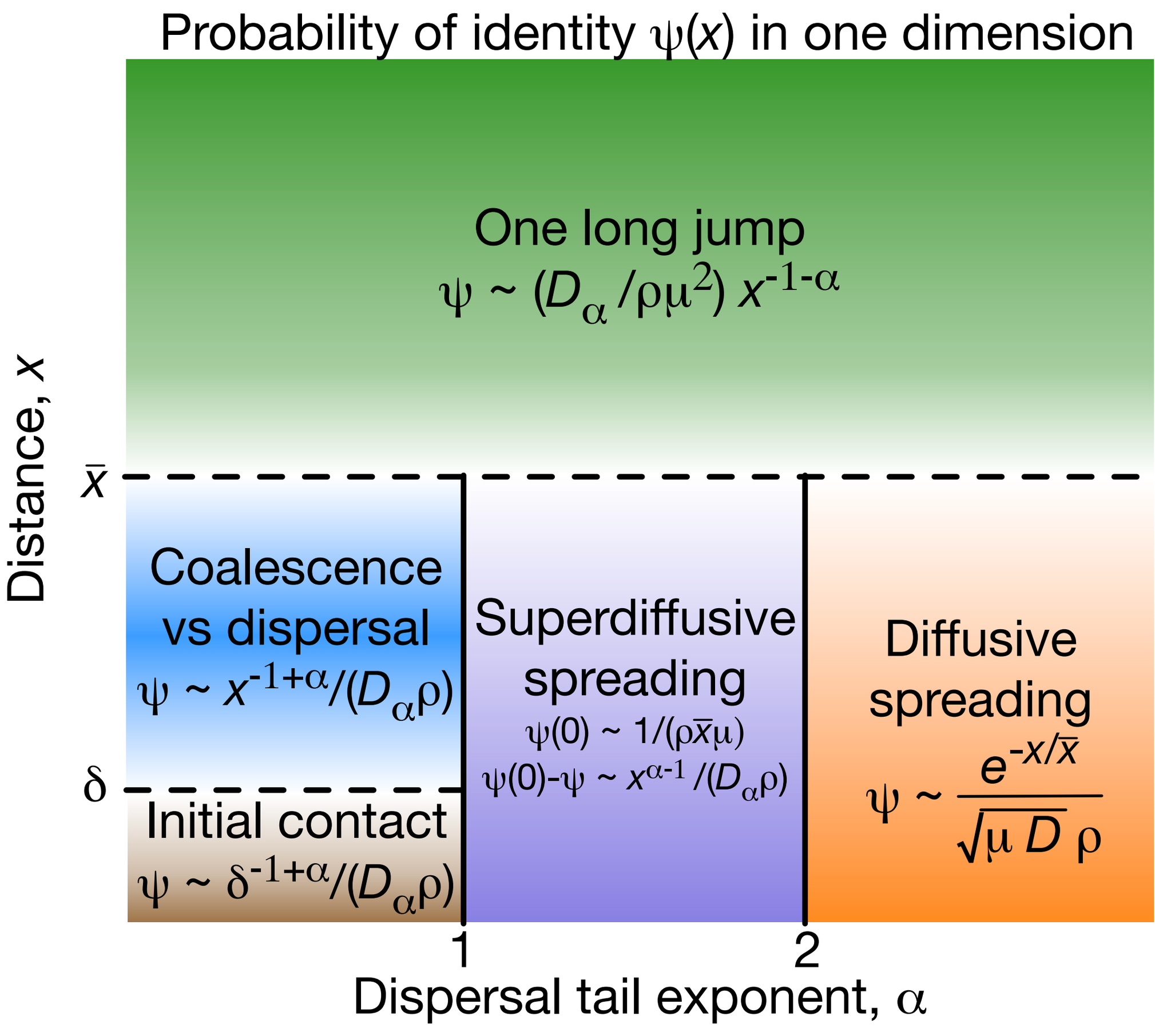
Probability of identity ψ(x) in one dimension
One long jump
ψ ~ (D_α /ρμ^2) x^-1-α
Distance, x
x̄
Coalescence
vs dispersal
ψ ~ x^-1+α/(D_αρ)
Superdiffusive
spreading
ψ(0) ~ 1/(ρx̄μ)
ψ(0)-ψ ~ x^α-1 /(D_αρ)
Diffusive
spreading
ψ ~ e^-x/x̄ / √(μ D ρ)
δ
Initial contact
ψ ~ δ^-1+α/(D_αρ)
1
2
Dispersal tail exponent, α