(a)

$\partial\Omega$

$\mathbf{x}_0$

$\partial\mathcal{U}$

$\mathbf{n}_0$

Ω

$\mathbf{n}$
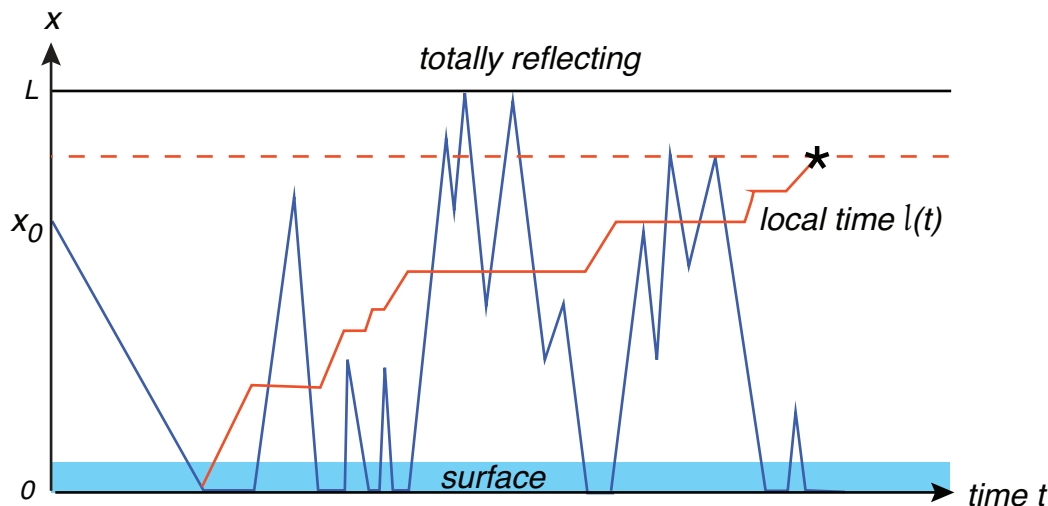
(b)

$\partial\Omega$

$\mathbf{x}_0$

$\mathcal{U}$ trap

Ω

Probability of adsorption depends on the amount of particle/surface contact time (a) Brownian local time (b) Brownian occupation time

x

L *totally reflecting*

x_0

local time $l(t)$

0 *surface*

time t

Adsorption occurs when local time crosses a random threshold