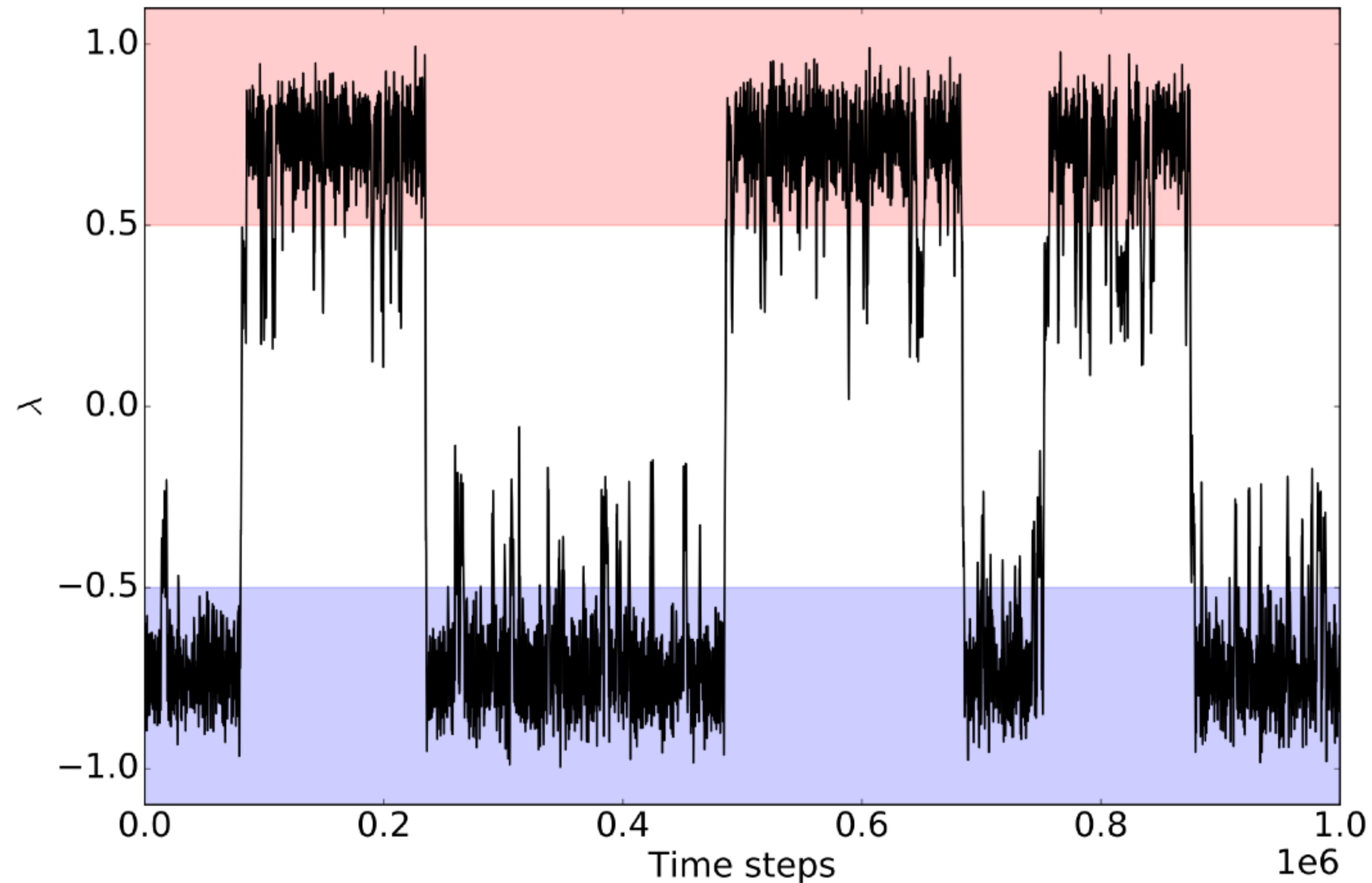
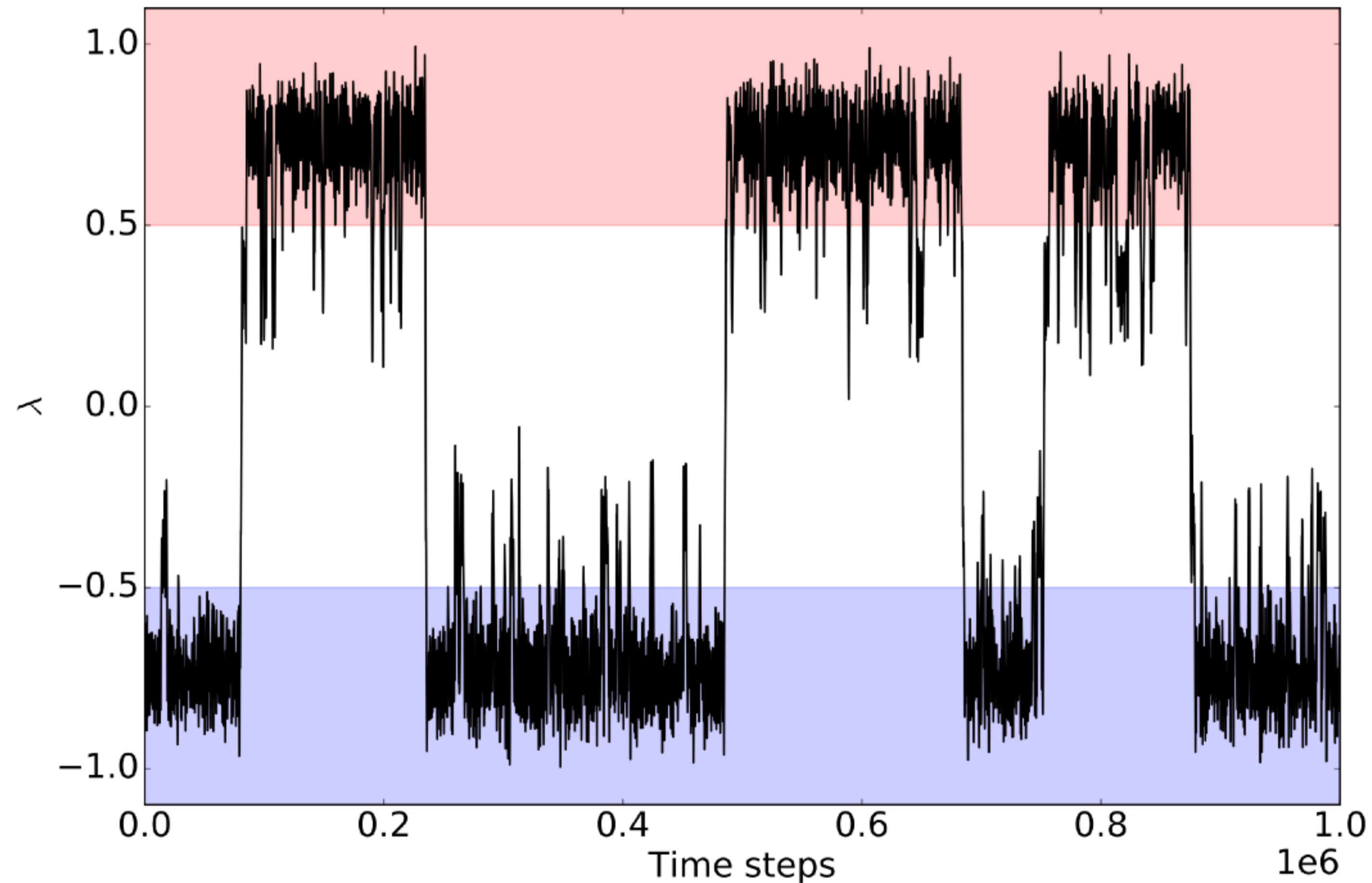


What makes an event “rare”?



Separation of time scales:
fundamental time scale vs. frequency of event

What makes an event “rare”?



Biomolecular Systems: $\sim 1/\text{ms}$ is common
Requires 10^{12} time steps of ~ 1 fs