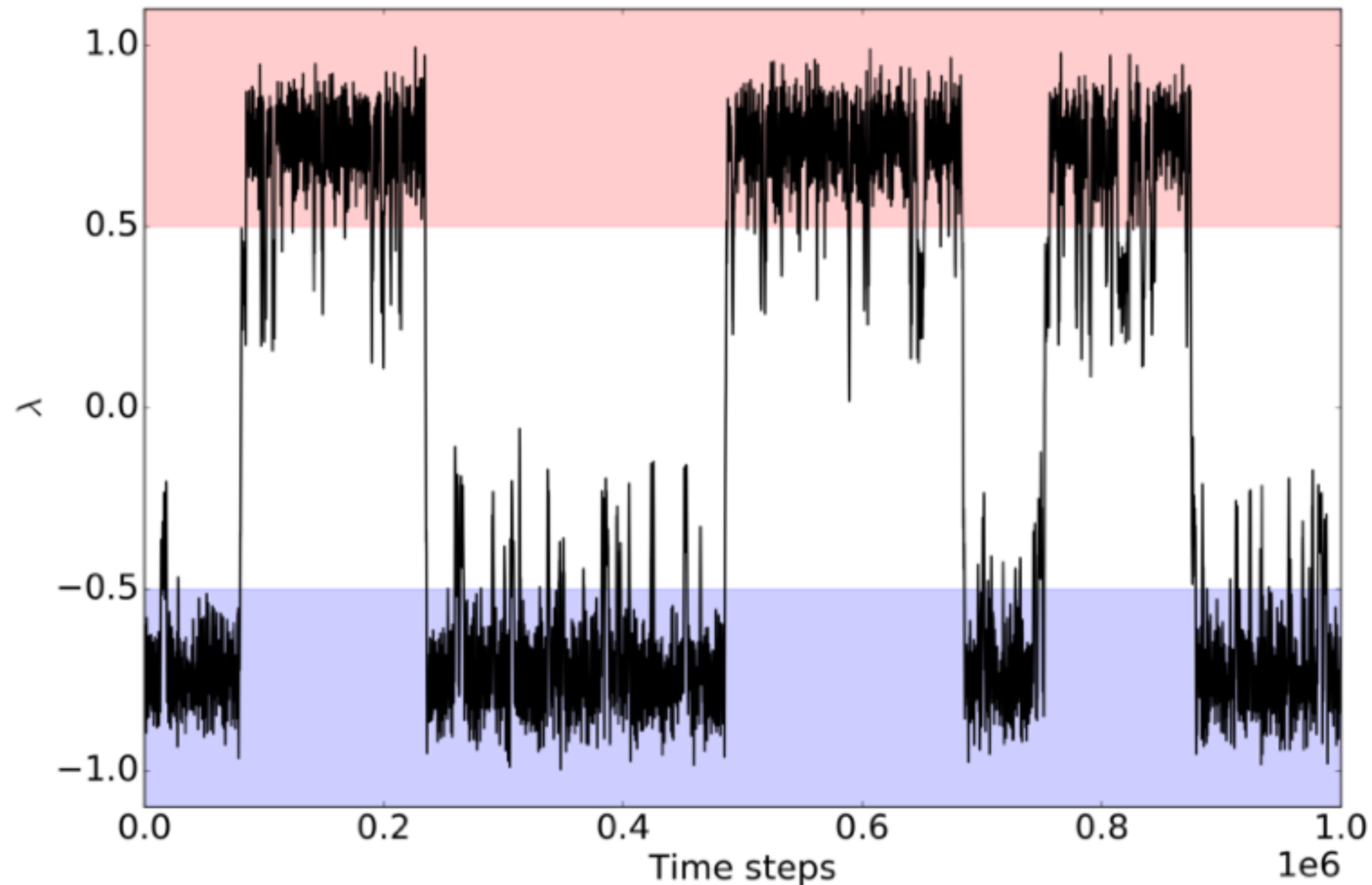# Simulation philosophy

- ***Unbiased dynamics:*** Make as few assumptions as possible about what degrees of freedom are important

- ***Full atomistic:*** High resolution in space and time

- ***Calculate rates, observe mechanisms:*** Compare with experiment and provide new insight

Just run naïve dynamics?

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