Calculate lifetime

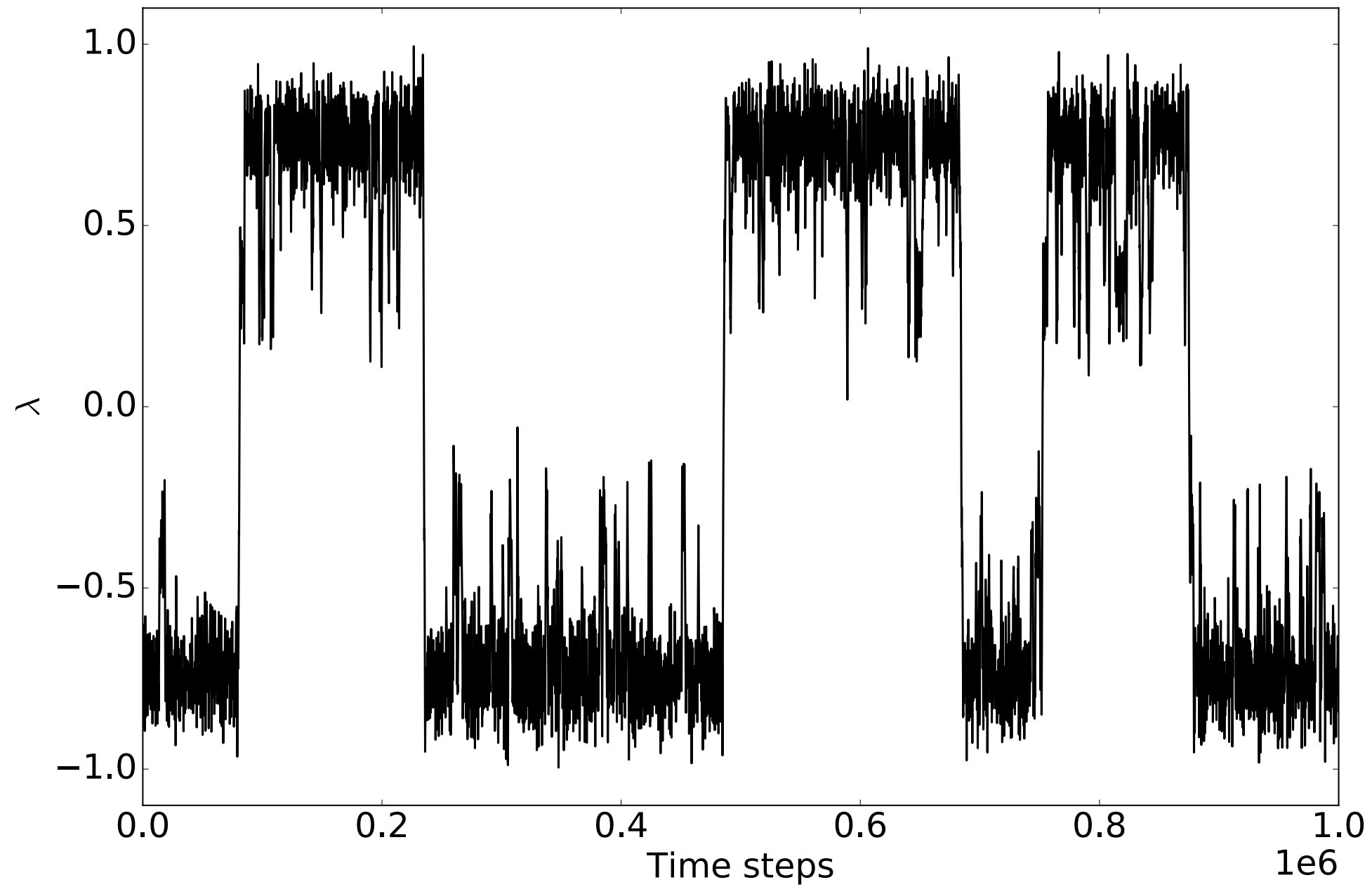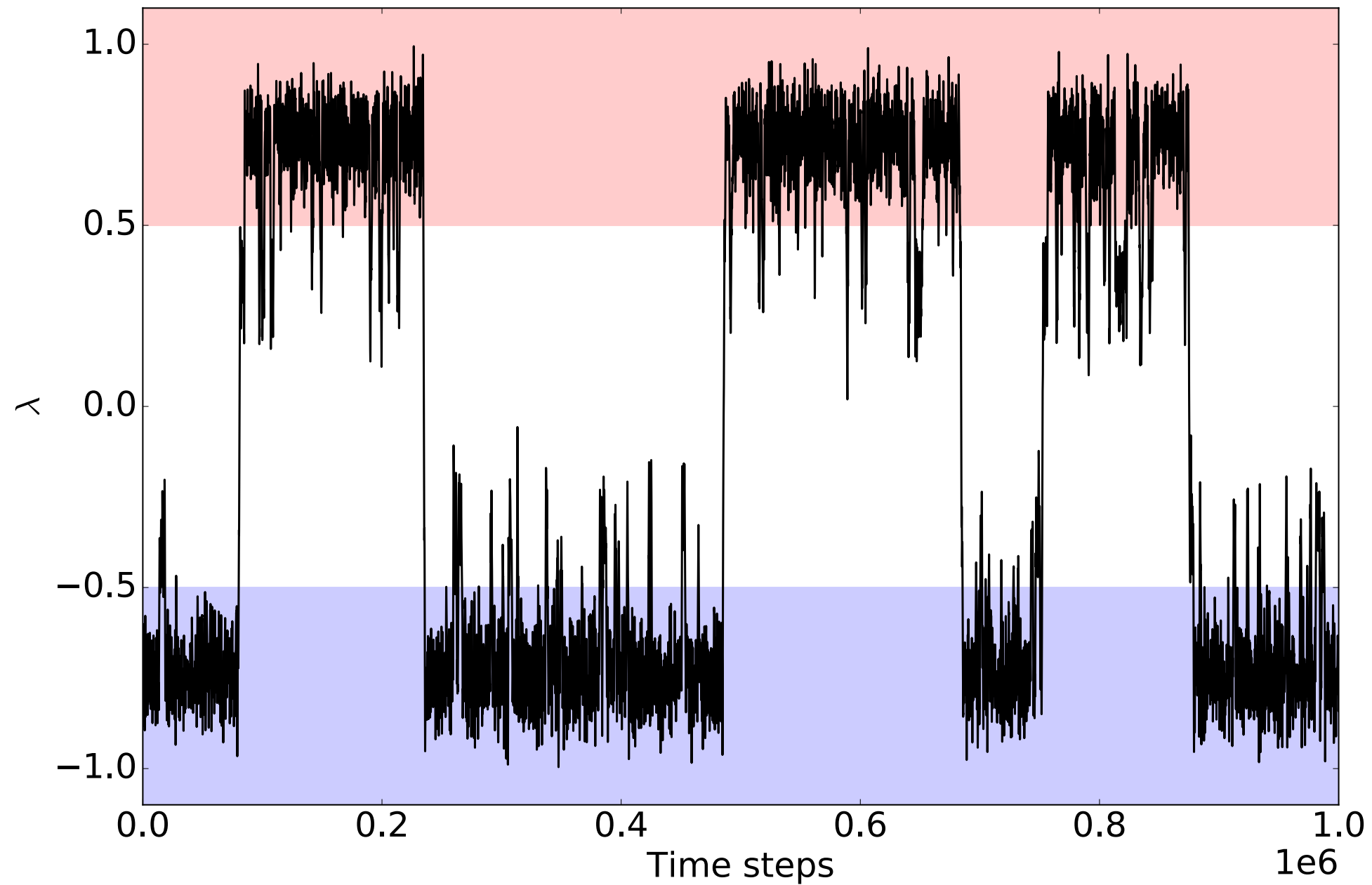# Calculate lifetime

Define states