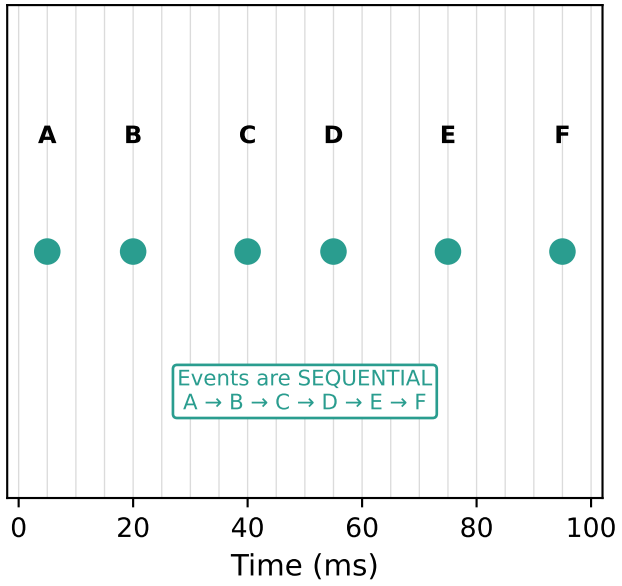
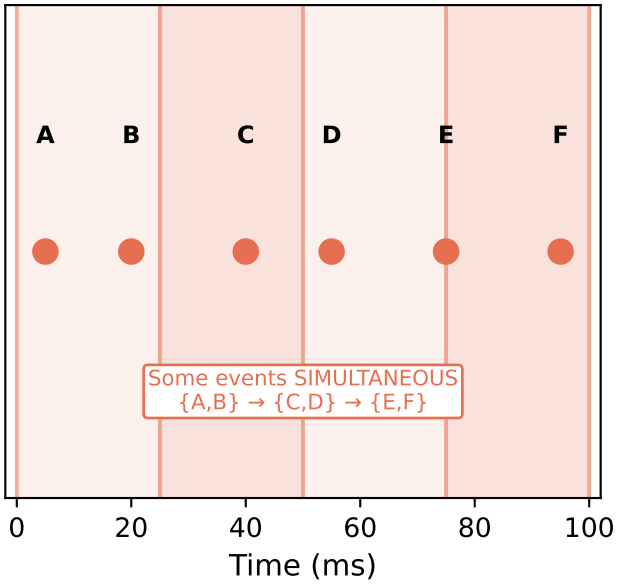
## A. Observer 1: $\Delta t = 5$ ms (Fine Resolution)




## B. Observer 2: $\Delta t = 25$ ms (Coarse Resolution)




## C. Framework-Relative Causality

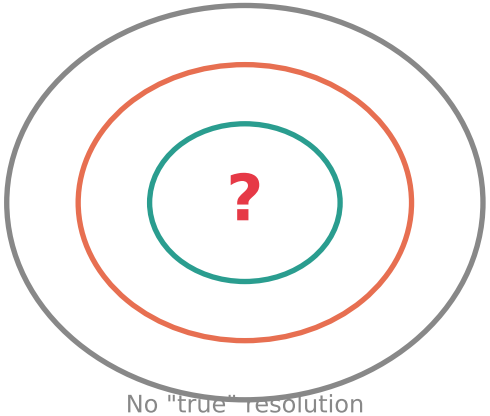
### CAUSAL IMPLICATIONS

**Observer 1 sees:**
"A caused B"
"C caused D"

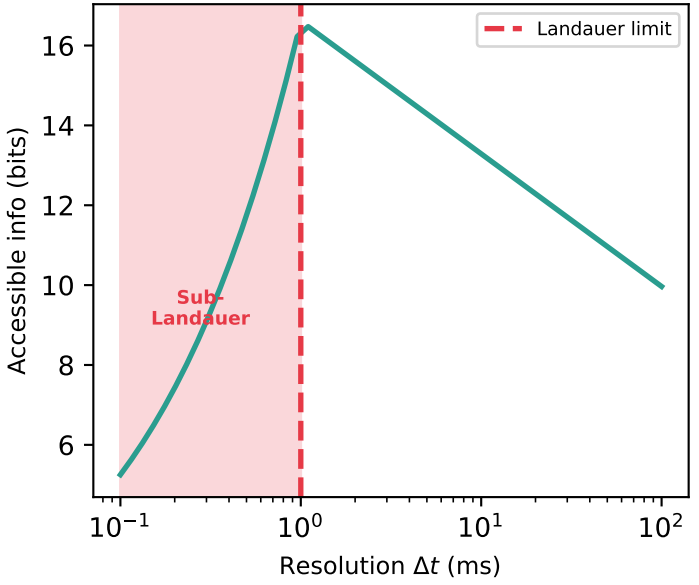
**Observer 2 sees:**
"A and B co-occurred"
"C and D co-occurred"

Same physical events
Different causal structures
Neither observer is "wrong"

## D. The Regress Problem




## E. Landauer Terminates Regress (illustrative)




### FRAMEWORK DEPENDENCE OF TIMING

- $\Delta t$ is a framework choice
- Different $\Delta t$ → different causal structures
- Below Landauer: regress physically terminates
- "When" created at projection