🧪 MU Test Plan — Test 8 (γ-Sweep, β=8→10 step=0.25)

Goal

- Check if the **critical β threshold (~9)** is universal or shifts depending on γ.
- We fix $\hbar$ = 0.1 and sweep γ = 0.5, 1.0, 2.0.
- β is scanned in increments of 0.25 to capture the onset of survival.

Parameters

- $\hbar$ = 0.1 (fixed)
- γ = 0.5, 1.0, 2.0 (tested in one run)
- β = [8.0, 8.25, 8.5, …, 10.0]
- v = 0.050 (slow), v = 0.500 (fast)
- T(r) = 1/(1+|r-r_c|), r_c=0.25

Predictions

- **γ=0.5** → weaker action → threshold may appear slightly earlier (β≈8.5).
- **γ=1.0** → baseline, threshold ~9.0 (as we've already seen).
- **γ=2.0** → stronger action → threshold may shift later (β≈9.5–10).
- If thresholds stay aligned, then the law is **universal**.

What We're Looking For

- The β-value where w_slow jumps from ~10^{-9} to ~10^{-2}.
- Compare across γ values.
- If thresholds are **the same**, Truth overrides action cost.
- If thresholds **shift**, then the action cost competes with Truth and environment matters.