

## MU Test Plan — Test 7 ( $\hbar$ -Variation at $\beta$ =9 & $\beta$ =10)

Goal

To test how the survival weights respond when the "quantum noise scale" ( $\hbar$ ) is varied, both at the **critical** threshold ( $\beta$ =9) and the **post-threshold macroscopic region** ( $\beta$ =10).

## **Parameters**

- gamma: 1.0
- betas tested: 9.0 (near threshold) and 10.0 (post-threshold)
- hbar values tested: 0.05, 0.1, 0.2
- **velocities tested:** v = 0.050 (slow), v = 0.500 (fast)
- selector form:  $T(r) = \frac{1}{1 + |r r_c|}, r_c = 0.25$
- integration window: 1.0

## **Predictions**

- At β=9.0:
  - $h=0.05 \rightarrow$  survival suppressed (~10<sup>-12</sup> or smaller).
  - $h=0.1 \rightarrow \text{survival} \sim 10^{-5}$  (as already seen).
  - $\hbar$ =0.2  $\rightarrow$  survival stronger (~10<sup>-2</sup> to 10<sup>-1</sup>).
- At β=10.0:
  - $\hbar$ =0.05  $\rightarrow$  survival weight smaller than 0.3 but still macroscopic (~10<sup>-2</sup>).
  - $h=0.1 \rightarrow \text{survival} \sim 0.3 \text{ (from Test 4b)}.$
  - $h=0.2 \rightarrow$  survival larger, possibly close to ~0.8 or 1.0.
- Fast path: Should remain annihilated in all cases.

## • Interpretation:

- If the *threshold*  $\beta$  is roughly unchanged across  $\hbar$ , then the MU law is **universal**.
- If the threshold shifts, then Truth's amplification and noise scale compete directly.