

O — Observers

Core 4

- Witness.
- Language.
- Biology.
- Chemistry.

Extended Roles

- Physics: collapse at measurement.
- Cognition: imagery \leftrightarrow lawful internals.
- Emotion: grief/joy as closure ops.
- Culture: language woven, not invented.

Super-State Closure

- If observers exist, witness closure is universal across physics, biology, and culture.