The LOCK Hypothesis

A Unified Model of Cosmogenesis via Geometric Unfolding and Residual Curvature

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Abstract

The LOCK Hypothesis proposes that our universe originated not from a uniform singularity, but from a chaotic, high-tension geometric structure--possibly the interior of a black hole in a parent universe. This compressed geometry unraveled through a perfectly symmetric point known as the Axis of Silence, forming a new spacetime fabric that expanded as it relaxed. This model reframes dark energy as the result of geometric tension releasing over time, and dark matter as persistent 'wrinkles'--imperfections caused by black hole asymmetries or timespace collisions.

1. Cosmic Origin via Chaotic Collapse

Instead of a clean, smooth Big Bang, the LOCK model begins with a highly compressed and disordered geometric knot--a gravitational collapse, potentially a black hole, in a higher-order or prior universe.

2. The Axis of Silence

At the core of this model lies a symmetrical boundary condition called the Axis of Silence--a perfectly balanced, wrinkle-free line where entropy is zero, causality cannot propagate, and time itself begins its outward flow.

3. The Unfolding of Spacetime

The universe's expansion is driven by the relaxation of curved geometry rather than explosive

energy. This unfolding accelerates as wrinkles smooth out, offering an alternative to the dark energy model.

4. Dark Matter as Wrinkles

The imperfections from the black hole collapse--quantum fluctuations, rotational asymmetries, uneven mass infall--remain embedded in the unfolding geometry as wrinkles, behaving like dark matter.

5. Wrinkle Origins in Black Hole Imperfection

Wrinkles originate from the irregular geometry of the black hole or collapsed region. They become gravitational scars--persistent curvature features.

6. Lockwave Interference: A Detailed Mechanism

Lockwave Interference is a proposed process in which multiple, incompatible flows of timespace collide during the collapse that birthed our universe. Instead of spacetime emerging from a single unified geometry, interfering waves of folded reality overlap, distort, and imprint localized stress into the newly unfolding fabric. These disturbances--phase mismatches and tension fields--become the 'wrinkles' responsible for dark matter-like effects.

Why would timespace overlap?

- In extreme conditions like black hole interiors or dimensional collapse, multiple tensions in geometric or temporal flow may be forced into a shared space.
- These flows may represent separate regions, branes, or causal histories that collapsed simultaneously.

How do wrinkles form?

- Where these flows collide, interference patterns emerge:
  - Constructive interference forms curvature peaks.

- Destructive interference smooths out.
- Phase mismatches embed asymmetries.

Outcome:

- A semi-chaotic distribution of curvature is left behind.
- These wrinkles are pre-installed gravitational scars--not formed by matter, but by geometry itself.

Observable Signatures:

- Non-gaussian CMB cold spots
- Void asymmetries and lensing distortions
- Structure alignment inconsistent with particle-based models

Simulation Potential:

- Simulating Lockwave Interference would involve layering tensor fields representing incoming geometries and observing their phase interactions on a neutral spacetime grid.

Philosophical Implication:

If Lockwave Interference is real, then our universe is not a clean rebirth--but a compromise between incompatible timelines, with the Axis of Silence as the mediator. Wrinkles become the imprints of forgotten conflicts, and the cosmos becomes the story of their resolution.

7. Visualization of the Hypothesis

A diagram depicts a chaotic black hole funneling through a narrow throat (Axis of Silence), below which spacetime flattens and unfolds, retaining residual curvature as dark matter.

8. Simulation and Evidence

Simulations using curvature maps show light bending in patterns consistent with observed lensing by dark matter halos. This suggests wrinkles alone could mimic dark matter.

9. Falsifiability and Testing

The LOCK Hypothesis can be tested via large-scale structure alignment, gravitational lensing anomalies, and cosmic microwave background asymmetries.

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11. Conclusion

The LOCK Hypothesis reimagines the origin of our universe as geometric relaxation from chaos. It unifies dark matter, dark energy, and structure into one process: the scars of imperfect collapse and the silent unfolding of spacetime.