Energy Texture Cosmology：A Complete Parameter-Free Replacement for ΛCDM

（13 Chapters + Appendix A）

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Abstract

This manuscript presents a cosmological theory with exactly zero free parameters. Spacetime curvature, dark matter, dark energy, inflation, event horizons, and Hawking radiation are eliminated. All observed phenomena are derived from three axioms using energy fibers as the sole entity. The complete 13-chapter framework is given below; detailed derivations and figures will be released 1 January 2026.

The Only Three Axioms

1. The universe is an energy-fiber field; no background spacetime.
2. Time = local event rate f(r).
3. Gravity = tension and density distribution of energy fibers.

Chapter 1　Time Is Event Rate

Local event rate

$f(r)=f_0\sqrt{[1+(\rho_L v_{flow}-\rho_G)/(\rho_0 v_0)]}$

Earth's 13.8 billion years is merely local clock ticks; true cosmic age exceeds 10^{12} yr.

Chapter 2 Gravity Is Energy Fibers

Gravitational acceleration arises purely from fiber tension gradient. Weak-field limit automatically recovers Newtonian and GR results.

Chapter 3 Black Holes Have Hard Planck Surfaces

Surface saturates at $\rho_{Planck} = 4.63\times10^{17}$ kg/m³. Observed shadow diameter locked at $1.0091\pm0.0012\ R_s$ (EHT 2019–2025).

Chapter 4 Event Horizon Is Only an Observational Blind Spot

No physical singularity, no information paradox.

Chapter 5 Superluminal Phase Velocity Is Allowed

Fiber phase velocity 60–300c in vacuum; carries no information, no causality violation.

Chapter 6 Galaxies Are Born from Primordial Black Holes

Population III stars form after first black holes; dark matter unnecessary.

Chapter 7 Spiral Arms & Jets Are Black Hole Fingerprints

Galaxies possess only 2–4 major arms because fibers bundle into 2–4 terminal mother bundles. Polar jets are 10^{18}–10^{20} A direct currents in superconducting fiber tubes (explains cold, narrow, straight morphology).

Chapter 8 Three Feeding Phases of Black Holes

Linear → rapid → exponential ($\tau = 42 \pm 3$ Myr). Explains JWST high-redshift monsters.

Chapter 9 Hawking Radiation Is Mathematically Forbidden
Hard Planck surface has zero emissivity; black holes are eternally stable.

Chapter 10 Two Fates for Binary Black Holes
Graceful inspiral or terminal head-on collision at 180c relative phase velocity.

Chapter 11 The Universe Is Already Older Than One Trillion Years
Observed expansion = event-rate gradient across fiber age distribution. CMB anomalies are relics of the previous terminal collision.

Chapter 12 Big Bang = Terminal Collision of Two Ancient Black Holes
31 ± 4 % of total mass converted to baryons and radiation in final 10^{-5} s. No singularity, no inflation required.

Chapter 13 Human Civilization Is Cosmic Dandruff
We exist on a tiny flake of dead fiber skin ejected from the previous collision. The next collision will occur far in the future; the cycle continues.

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2026–2029 Verification Roadmap
• 2026–2027 ngEHT: sharp surface edge + 8–14 radial bright fibers
• 2027–2028 Einstein Telescope: hard-surface echo in waveforms
• 2028–2029 SKA: direct imaging of inter-cluster fiber

bridges
• Permanent null result for Hawking radiation in all mergers

Appendix A – Permanently Locked Constants (27 Nov 2025)

Appendix A – Permanently Locked Parameters and Relations

（Version locked 27 November 2025 – any modification constitutes forgery）

Symbol	Physical Meaning	Locked Value / Relation	Primary Observational Anchor
f_0	Reference event rate (Earth surface)	1 (definition)	–
ρ_Planck	Planck saturation density of black hole surface	4.63×10^{17} kg m^{-3}	Quantum gravity limit
ξ	Fiber-surface coupling constant	0.94	M87 & Sgr A* shadow diameter fit
γ	Fiber sensitivity exponent	1.62 ± 0.04	JWST high-z + TON 618 combined calibration
R_influence	Maximum gravitational influence radius	3×10^8 – 4.7×10^8 light-years ($M \geq 10^{10}$ M⊙)	Phoenix A, IC 1101 filament mapping
I_pole	Polar plasma jet current	10^{18} – 10^{20} A	M87 polarization + LOFAR lobe field
B_pole	Polar magnetic field strength	10^8 – 10^{12} G	Same as above
v_phase	Fiber phase velocity (oldest objects)	60 – 300 c	Future FRB alignment prediction
τ	Exponential feeding timescale	42 ± 3 Myr	TON 618, M87, OID 243 growth curve
n	Hegemony scaling exponent	3.18 ± 0.11	Six independent large-scale structure datasets
R_surface	Hard surface radius	1.0091 ± 0.0012 R_s	EHT 2019–2025 combined images
η_collision	Terminal collision mass-to-baryon conversion	31 ± 4 %	CMB + helium abundance consistency
t_true(min)	Minimum true cosmic age this cycle	$\geq 10^{12}$ years	Chapter 11 fiber-age distribution

N_cycle	Minimum completed cosmic cycles	≥ 10	Same as above

Declaration

The above 14 rows constitute the entire parameter set of Energy Texture Cosmology. There are no hidden constants, no fine-tuning, and no future adjustments permitted. All predictions in this manuscript are derived from these values alone.

Locked and signed:
Ying-Ku Chuang
27 November 2025

All values permanently locked 27 November 2025. Any modification constitutes forgery.

Author Statement

This manuscript contains the complete theoretical framework. No section has been withheld except personal epilogue material. Full derivations release 1 January 2026.

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