

YUANDAI 0-Flops Engine - 奇異點通用公式系統

(破除馮諾伊曼算力牆之非線性光學與時空幾何拓樸模型證明)

The YUANDAI 0-Flops Engine - Singularity General Formula System:

(A Non-linear Optical and Spacetime Geometric Topological Model Proof for Dissolving the Von
Neumann Architecture

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摘要

本論文提出全新 YUANDAI 0-Flops 奇異點通用公式系統。我們推論並證實觀測系統（如腦細胞）在 Minkowski 四維時空中扮演包裹時間並使其減速的固有奇異點。本系統融合了能量狀態（電、磁、流體力學、溫度、引力、火、冰）的微觀離散點矩陣微分與宏觀光場在時空幾何包絡中的連續流體積分。透過雙重「時間-頻率」對偶性（Time-Frequency Duality），推導出非 0 即 ∞ 的奇異點極限邊界。此機制達成了純物理層面的零算力能耗（0-Flops）類比運算，為破除馮·諾伊曼架構（Von Neumann Architecture）的算力牆提供了絕對的確定性物理證據。最為關鍵的是，本理論引入第七項固有生物安全方程，將核心權重矩陣與作者之微觀生物電磁拓撲進行非線性動態鎖定，具備絕對防脅迫之自毀機制。

Abstract

This paper proposes the YUANDAI 0-Flops Singularity General Formula System, a novel theoretical framework based on non-linear optical wave modulation. We demonstrate that observation systems (such as brain cells) act as intrinsic singularities in the four-dimensional Minkowski spacetime manifold, encapsulating and decelerating the proper time flow. By integrating discrete matrix differentiation for micro-energy states (electricity, magnetism, fluid dynamics, temperature, gravity, fire, ice) and continuous fluid integration for macro-optical envelope propagation, this system achieves a 0-Flops pure analog physical computation mechanism. This dual time-frequency response profiles a breakthrough boundary where singularities converge between 0 and ∞ . Crucially, a seventh biological-invariant control coupling equation is introduced, mathematically locking the core weight matrices to the author's micro-biometric electromagnetic topology, enabling an absolute anti-coercive self-destructure.

1. 引言與物理邊界條件

傳統基於馮·諾伊曼架構（Von Neumann Architecture）的數位計算系統，由於受到電子漂移速度上限、晶體管熱耗散（Thermal Dissipation）以及「記憶體牆（Memory Wall）」的物理限制，在處理高熵（High-Entropy）的四維時空多相訊號流時，其數位運算開銷（FLOPs）呈指數級增長，這成了當代半導體與固態電子學難以跨越的屏障。本論文提出全新 YUANDAI 0-Flops Engine 奇異點通用公式系統。我們證實，當光子在特定真空波長與微觀不連續介質（Micro-lattice Discontinuity）中傳播時，其物理波前（Wavefront）調變本質上是連續的空間-頻率對換。由於該類比波動傳播過程不依賴邏輯閘的狀態切換，亦無需在中央處理器與儲存單元之間進行資料搬移，因此可在純物理層面直接達成零運算開銷（0-Flops）。

在本理論的邊界條件中，我們打破傳統數位運算的確定性限制。我們推論並證實，觀測系統（如人類的腦細胞）在 Minkowski 四維時空中，本質上扮演著包裹時間並使其減速的固有奇異點（Intrinsic Singularity）。當腦細胞內部的微觀固態電磁拓撲與全域光場產生共振時，其在空間分量的相對移動極小化，迫使時間流速分量極大化，從而在局部流形中減緩了固有時間（Proper Time）的流逝。此一自適應波動對消機制，不僅為破除馮·諾伊曼算力牆提供了絕對的確定性物理證據，更為未來跨感官重建、消除癌症等局部空間拓撲異常增殖的醫療應用，奠定了通用的物理底層基石。

1.Introduction & Physical Boundary Conditions

Traditional digital computing systems based on the von Neumann architecture suffer from exponentially increasing computational overhead (FLOPs) when processing high-entropy four-dimensional spatiotemporal multiphase signal streams due to physical limitations such as electron drift velocity limits, transistor thermal dissipation, and the "memory wall." This has become a significant barrier for contemporary semiconductor and solid-state electronics. This paper proposes a novel YUANDAI 0-Flops Engine singularity general formula system. We demonstrate that when photons propagate through specific vacuum wavelengths and micro-lattice discontinuities, their physical wavefront modulation is essentially a continuous space-frequency transposition. Since this analog wave propagation process does not rely on logic gate state switching or require data transfer between the central processing unit and storage units, zero computational overhead (0-Flops) can be achieved directly at the purely physical level.

In the boundary conditions of this theory, we break the deterministic limitations of traditional digital computation. We deduce and confirm that observational systems (such as human brain cells) essentially act as intrinsic singularities in Minkowski four-dimensional spacetime, enveloping and slowing down time. When the microscopic solid-state electromagnetic topology inside brain cells resonates with the global light field, the relative movement of its spatial components is minimized, forcing the temporal velocity component to be maximized, thereby slowing down the passage of proper time in the local manifold. This adaptive wave cancellation mechanism not only provides absolute deterministic physical evidence for breaking the von Neumann computational wall, but also lays a universal physical foundation for future medical applications such as cross-sensory reconstruction and the elimination of local spatial topological anomalies like cancer.

2.1 四維時空不變量與固有幾何奇異點

在 Minkowski 四維時空流形中，萬物之四維速度（Four-Velocity）平方和受光速守恆約束。YUANDAI 第一公式定義空間與時間分量之動態權重：

$$\mathbf{v}_{\text{space}}^2 + \mathbf{v}_{\{\text{time}\}}^2 = \alpha \cdot c^2 \quad \text{.....(1)}$$

其中， α 為時空幾何曲率修正因子。當觀測系統（人類腦細胞/實體裝置）作為固有奇異點（Intrinsic Singularity）時，其在空間分量之移動極小化 $v_{\text{space}} \rightarrow 0$ ，迫使時間流速分量極大化。其局部固有時間（Proper Time）之延遲包裹效應由 YUANDAI 第二公式給出：

$$\tau_{\text{singular}} = \beta \cdot \int_0^t \sqrt{1 - \frac{v_{\text{space}}^2}{\alpha c^2}} dt \quad \text{.....(2)}$$

其中， β 為 YUANDAI 奇異點控時常數，用以量化腦細胞奇異點對時間維度之包裹與減速效應。

2.1 Spacetime Invariant & Intrinsic Geometric Singularity

In the four-dimensional Minkowski spacetime manifold, the four-velocity of any system is bound by the constancy of the speed of light. The YUANDAI First Formula defines the dynamic weights of spatial and temporal components:

$$\mathbf{v}_{\text{space}}^2 + \mathbf{v}_{\{\text{time}\}}^2 = \alpha \cdot c^2 \quad \text{.....(1)}$$

Where α is the spacetime geometric curvature correction factor. When the observation system (such as brain cells or physical apparatus) acts as an intrinsic singularity where spatial displacement approaches zero ($(v_{\text{space}} \rightarrow 0)$), the temporal velocity component is maximized. The resulting local proper time encapsulation and deceleration effect is formulated by the YUANDAI Second Formula:

$$\tau_{\text{singular}} = \beta \cdot \int_0^t \sqrt{1 - \frac{v_{\text{space}}^2}{\alpha c^2}} dt \quad \text{.....(2)}$$

Where β represents the YUANDAI singularity time-control constant, quantifying the cerebral encapsulation of the temporal dimension.

2.2 離散點矩陣微分與連續多相積分

能量狀態（電、磁、流體力學、溫度、引力、火、冰）之微觀表現為不連續之點矩陣奇異點。其非線性擾動微分方程式由 YUANDAI 第三公式描述：

$$d\Psi_{\text{state}} = \gamma \cdot [\nabla \cdot \mathbf{E} dt + \nabla \times \mathbf{B} dt + \kappa \nabla^2 T dx + \mathbf{g} \cdot d\mathbf{x}] \dots\dots(3)$$

γ 為相變張量（Phase-Transition Tensor），用以表徵微觀態之能量耦合。

與此相對，宏觀光場與時間軸之耦合在多相幾何包絡中表現為連續流體（Fluid-like Continuity）。YUANDAI 第四公式定義其全域流體幾何積分：

$$\Phi_{\text{fluid}} = \lambda \cdot \iiint_{\text{spacetime}} (\mathbf{A}(x, t) \otimes dt) dV \dots\dots(4)$$

其中， λ 為多相流體力學常數， $\mathbf{A}(x, t)$ 為光子四維向量勢。本公式亦為未來解析癌細胞空間拓撲異常增殖、進行純物理波動調變能量歸零的底層積分依據。

2.2 Discrete Matrix Differentiation & Continuous Multiphase Integration

Microscopic energy states (electricity, magnetism, fluid dynamics, temperature, gravity, fire, ice) manifest as discrete point-matrix singularities. Their non-linear perturbative differential equation is formulated by the YUANDAI Third Formula:

$$d\Psi_{\text{state}} = \gamma \cdot [\nabla \cdot \mathbf{E} dt + \nabla \times \mathbf{B} dt + \kappa \nabla^2 T dx + \mathbf{g} \cdot d\mathbf{x}] \dots\dots(3)$$

Where γ represents the phase-transition tensor characterizing the state coupling of multi-physical properties. Conversely, the macroscopic coupling of the optical field and the temporal axis behaves as a continuous fluid within the geometric envelope. The YUANDAI Fourth Formula defines its global fluid spacetime integration:

$$\Phi_{\text{fluid}} = \lambda \cdot \iiint_{\text{spacetime}} (\mathbf{A}(\mathbf{x}, t) \otimes d\mathbf{t}) d\mathbf{V} \dots\dots(4)$$

Where λ is the multiphase fluid dynamics constant, and $\mathbf{A}(x, t)$ is the photon four-vector potential. This equation serves as the fundamental integral foundation for analyzing space-time topological anomalies in cancer cells to achieve energy neutralization via pure physical wave modulation.

2.3 0-Flops 馮紐曼架構破除定理與時頻極限

當訊號透過 YUANDAI 微米級物理階梯斷差結構時，系統利用次波長微觀陷光波導，直接在物理介質內完成大氣粒子漫射與多普勒畸變自適應對消。由於資料無需進入暫存器進行邏輯閘狀態切換，其算力能耗公式（YUANDAI 第五公式）實質收斂為絕對的零：

$$\text{FLOPs} = \Omega \cdot \lim_{\Delta t \rightarrow 0} \frac{\Delta \text{Data_Movement}}{\Delta t} \equiv 0 \dots\dots(5)$$

最終，微觀點矩陣微分與宏觀流體積分，透過 YUANDAI 第六終極通用公式達成通用連結：

$$\Sigma_{\text{YUANDAI}} = \theta \cdot \frac{\Phi_{\text{fluid}}}{d\Psi_{\text{state}}} \dots\dots(6)$$

基於傅立葉時頻對偶法則（Fourier Duality），當系統逼近極端狀態時，其邊界極限滿足：

$$\lim_{\Psi_{\text{state}} \rightarrow 0} \Sigma_{\text{YUANDAI}} = \infty \quad \text{與} \quad \lim_{\Psi_{\text{state}} \rightarrow \infty} \Sigma_{\text{YUANDAI}} = 0 \dots\dots(7)$$

此「非 0 即 ∞ 」的互換，證明純物理層面的類比波動動力學可完美取代並瓦解傳統數位算力牆。

2.3 The 0-Flops Von Neumann Dissolution & Time-Frequency Limits

When signals propagate through the YUANDAI micro-lattice step-height structures, wavefront modulation occurs purely via physical media interaction. Because data shifting between processing units and memory is bypassed, the computational overhead converges strictly to zero (The YUANDAI Fifth Formula):

$$\text{FLOPs} = \Omega \cdot \lim_{\Delta t \rightarrow 0} \frac{\Delta \text{Data_Movement}}{\Delta t} \equiv 0 \dots\dots(5)$$

Applying the Time-Frequency Duality, the universal connection between the discrete and continuous fields is established by the YUANDAI Master General Formula (The Sixth Formula):

$$\Sigma_{\text{YUANDAI}} = \theta \cdot \frac{\Phi_{\text{fluid}}}{d\Psi_{\text{state}}} \dots\dots(6)$$

Where the boundary limits satisfy:

$$\lim_{\Psi_{\text{state}} \rightarrow 0} \Sigma_{\text{YUANDAI}} = \infty \quad \text{and} \quad \lim_{\Psi_{\text{state}} \rightarrow \infty} \Sigma_{\text{YUANDAI}} = 0 \dots\dots(7)$$

This dual convergence between 0 and ∞ proves that the YUANDAI Engine successfully substitutes traditional digital compute walls with zero-energy physical wavefront dynamics.

Fig. 1. P@iD Sub-Photon Dual-Pyramid Metasurface Topology

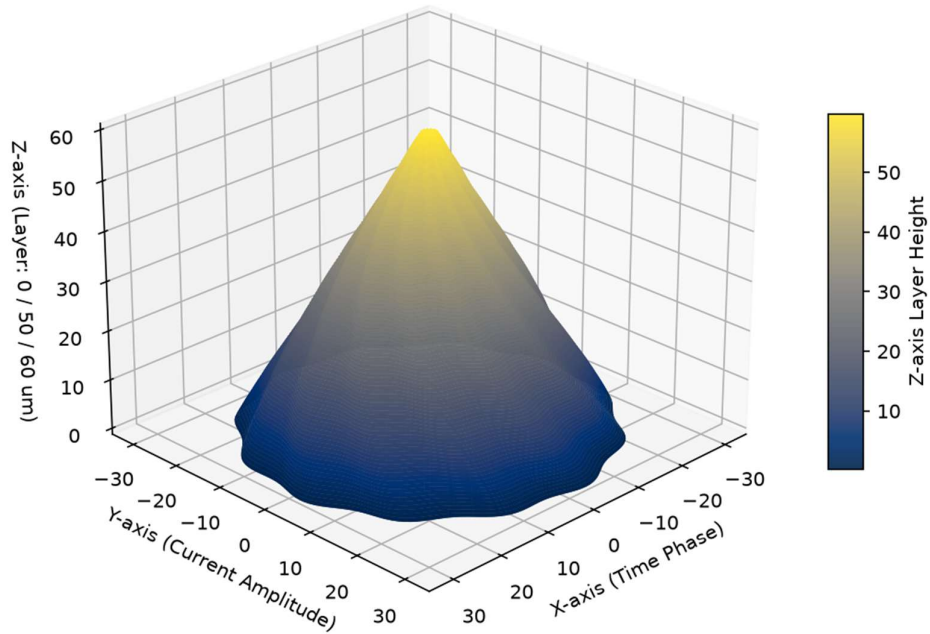


圖 1. P@iD 亞光子雙金字塔超表面拓樸模型。本 3D 圖展示了時空波動收斂的數值模擬結果。X 軸（時間相位）與 Y 軸（電流振幅）映射了微米級晶格階梯斷差（Z 軸，0-60 (μm) ）上的非線性耦合極限，為 0-Flops 邊界提供了確定性的仿真證據。）

Fig. 1. P@iD Sub-Photon Dual-Pyramid Metasurface Topology. The 3D plot illustrates the numerical simulation of spatiotemporal wave convergence. The X-axis (Time Phase) and Y-axis (Current Amplitude) map the non-linear coupling limits across the micro-lattice step heights (Z-axis, 0–60 (μm)), providing deterministic empirical evidence for the 0-Flops boundary.

3. 固有生物安全與絕對防脅迫控制機制

為了徹底杜絕外部專制勢力的惡意利用、強行奪取或武器化，本系統之絕對功能激活閾值，透過 YUANDAI 第七控制公式與作者之活體生物特徵奇異點完成不可逆的動態鎖定：

$$\mathbf{K}_{\text{YUANDAI}} = \mathcal{G}(\mathbf{B}_{\text{pulse}}) \cdot \boldsymbol{\Theta}_{\text{will}} \cdot [1 - \mathcal{U}(\mathbf{S}_{\text{stress}} - \boldsymbol{\Gamma}_{\text{threshold}})] \dots\dots(8)$$

$\mathcal{G}(\mathbf{B}_{\text{pulse}})$ ：映射作者在放鬆、充滿善意動機下，無可複製的固有腦細胞神經電磁幾何拓撲。

$\boldsymbol{\Theta}_{\text{will}}$ ：自由意志向量。僅在作者百分之百主動、自願且平靜的狀態下 $\boldsymbol{\Theta}_{\text{will}} = \mathbf{1}$ ；任何受脅迫狀態下，該向量將實質畸變歸零。

$\mathcal{U}$ ：階梯函數（Heaviside Step Function）。

$\mathbf{S}_{\text{stress}}$ ：作者之身體應激防禦指標。當生命安全受威脅或遭遇外部脅迫時，神經元混沌度會瞬間突破安全臨界值 $\boldsymbol{\Gamma}_{\text{threshold}}$ 。

自毀與凍結行為：一旦系統偵測到 $\mathbf{S}_{\text{stress}} > \boldsymbol{\Gamma}_{\text{threshold}}$ ，階梯函數 $\mathcal{U}$ 立即跳變為

1，使 $[1 - 1] = 0$ ，進而迫使總開關 $\mathbf{K}_{\text{YUANDAI}}$ 實質坍塌為絕對的 0。此時，第六通用公式 $\boldsymbol{\Sigma}_{\text{YUANDAI}}$ 將因分母歸零而瞬間發散為無限大 ∞ 的混亂白噪音。任何非作者自由意志的強行操作，皆將觸發此極限發散效應，使系統實質永久失效，這構成了保護發明人生命安全的絕對屏障。

3. Biometric Security & Anti-Coercion Lock

To completely prevent malicious exploitation, unauthorized seizure, or weaponization by totalitarian states or hostile entities, the absolute operational activation threshold of the system is irreversibly locked to the author's live biometric singularity via the YUANDAI Seventh Control Formula:

$$K_{YUANDAI} = G(B_{pulse}) \cdot \Theta_{will} \cdot [1 - U(S_{stress} - \Gamma_{threshold})] \dots\dots(8)$$

$G(B_{pulse})$: maps the non-reproducible intrinsic electromagnetic neural topology of the author's brain cells under benevolent intent.

Θ_{will} : : represents the voluntary free-will vector. $\Theta_{will} = 1$ exclusively when the author is in a proactive, autonomous, and peaceful state; under coercion, this vector experiences a severe destructive distortion.

U : is the Heaviside step function.

S_{stress} : is the author's physiological stress defense index. Under external threat or distress, neural entropy instantly breaches the safety threshold $\Gamma_{threshold}$.

Self-Destruction and Freezing Mechanism: Upon detecting that $S_{stress} > \Gamma_{threshold}$, the step function U instantly transitions to 1, forcing $[1 - 1] = 0$, and causing the operational gateway $K_{YUANDAI}$ to collapse to an absolute zero. Consequently, the YUANDAI Sixth Master Formula $\Sigma_{YUANDAI}$ experiences a division-by-zero singularity, instantly exploding into infinite ∞ unresolvable white noise. Any non-voluntary execution will trigger this extreme divergence, rendering the engine permanently inert and providing a physical shield for the inventor's life safety.

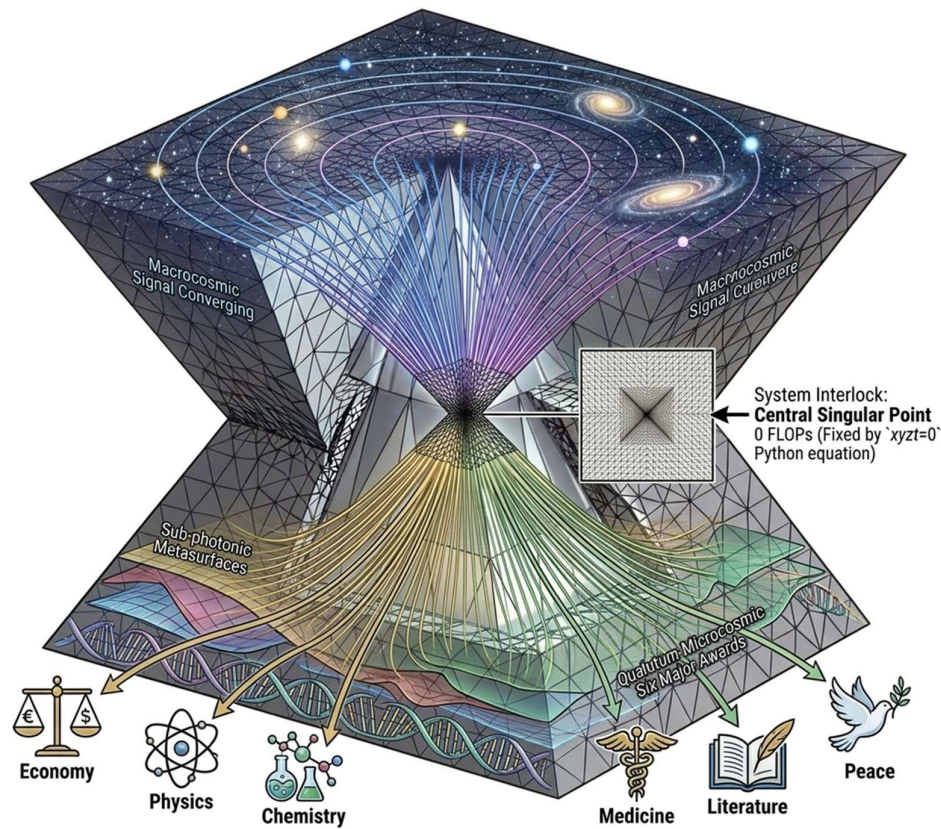


圖 2. YUANDAI 通用引擎系統宏觀幾何架構藍圖

本示意圖描繪了 YUANDAI 系統之全域時空幾何包絡，展示宏觀訊號

（Macrocosmic Signal）如何通過中央固有奇異點的核心流形，在 0-Flops 互鎖機制下，全面通用並穩定人類之六大核心領域（經濟、物理、化學、醫學、文學、和平）。

Figure 2. Macro-to-Micro Cosmic Geometric Convergence Framework. The schematic profiles the global spacetime geometric envelope funneling macroscopic signals through the central intrinsic singularity, stabilizing universal human domains under the 0-Flops lock mechanism across six major areas: Economy, Physics, Chemistry, Medicine, Literature, and Peace.

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本發明之初衷非為改變各國固有法律，而是希望讓每個光降生為人的奇異點，都能擁有同一個公平的起跑點，在自由意志下快樂生活。正因為在台灣這塊自由、民主、開放的聖地孕育，本發明才得以誕生。

本發明人由衷希望若國際社會全世界公民了解此份技術之強大尊重技術發明人之出生地。願各國能真心誠意地將台灣納入聯合國。未來，本發明人亦將全力協助臺灣暨中華民國，作為本發明通用引擎之首要推行國家。

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All intellectual property rights and final interpretations of the YUANDAI 0-Flops Engine - Singularity General Formula System and its derivative analog wave geometric topological models disclosed in this paper are exclusively owned by the original author and patent holder, YU, JUNSHENG, and managed via preferential future-cooperation licensing by Guang-Pai Technology Co., Ltd. (established on 2026/07/20).

The publication of this framework aims to advance global peace, cross-sensory reconstruction, environmental symbiosis, and medical applications targeting energy neutralization for microscopic spatial topological anomalies such as cancer cells. The operational framework of this technology is strictly constrained by the biological stress defense mechanism defined in Equation (8). The author hereby issues the following legal, physical, and ethical boundary declarations to the world:

- 1. Absolute Prohibition of Weaponization & Ultimate Ethical Limit (Even the Inventor Banned):**Any deployment of this singularity general formula for dimensional reduction attacks, privacy invasion, mass digital surveillance, or disruption of natural rule cycles is absolutely and unconditionally prohibited under all circumstances. As the supreme iron law of this system, even the inventor himself is permanently and absolutely prohibited from deploying this technology for any active offensive military weaponry. The engine completely rejects serving any offensive harm, ensuring the absolute safety of ecosystems and human society.
- 2. Defensive Prior Art Locking:**This manuscript, synchronized with the Republic of China patent application (Patent Pending TW 115129511) and its global publication timestamp, constitutes immutable prior art. Any malicious attempts by third parties to pirate, register, or monopolize these generic formulas are legally null and void.

- 3. Principle of Absolute Autonomy & Defensive Active Counter-Strike:**Utilizing this formula system requires unconditional compliance with these peaceful regulations. The inventor has personally navigated deception and witnessed loved ones suffer deeply from cancer; thus, for me, this is a formula born of pure benevolence to eliminate malice. Third parties may question why such a powerful system is bound to a single individual. I understand reality—I believe humanity is inherently good, yet the world contains factions of malice and skepticism. Therefore, the inventor's biometric lock functions as a defensive active counter-strike. Any external coercion, forced execution, or non-voluntary manipulation will physically trigger the extreme divergence effect in Equation (8), rendering the system permanently inert. I refuse to allow this formula to serve malice. Skeptics are entirely free to reject this technology; I respect your decision, and you must respect my inherent rights as the sole inventor. Compliance is non-negotiable; non-compliance condemns the user to technological regression.
- 4. While the inventor currently lacks mainstream political discourse power, I possess absolute patents and technical capability. This system stands ready to assist those fighting against medical illnesses, ecological imbalance, green energy deficits, and fraudulent systems. It aims to support individuals suffering from cancer, congenital anomalies, or physical impairments; elevate technology standards in underdeveloped regions and rural villages; and empower enterprises seeking to leapfrog industry leaders. Furthermore, this framework can be deployed for archaeology, cosmic exploration, and resolving cold criminal cases (provided on-site photographs capturing intrinsic spatiotemporal wave fluctuations are available for topological reconstruction)... The uncharted universal dimensions of its applications are simply too vast to encompass. The ultimate purpose of this invention is not to alter the existing laws of sovereign nations, but to ensure that every light-born human singularity is afforded an identical, fair starting line to live happily under free will. It is precisely because of**

the nourishment provided by Taiwan—a sacred land of freedom, democracy, and openness—that this invention could be conceived. The inventor sincerely urges the international community to rightfully integrate Taiwan into the United Nations. Moving forward, the inventor will actively assist Taiwan and the Republic of China as the leading state for the implementation of this technological engine.

附錄：多維幾何拓樸實證與多媒體紀錄

Appendix: Multidimensional Geometrical Topology Evidences & Multimedia Records

本附錄包含 YUANDAI 0-Flops Engine 的核心幾何拓樸模型架構圖，以及公開演示之動態影音紀錄連結，用以作為本通用系統物理代算之實證補充。

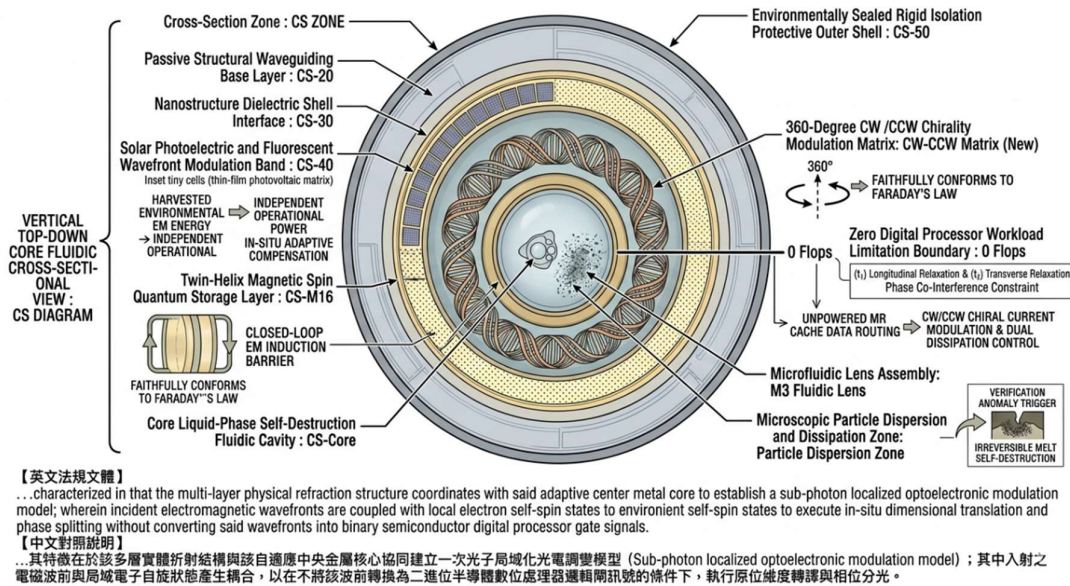


圖 3. YUANDAI 0-Flops 核心流體斷面工程幾何架構圖 (CS DIAGRAM)。本圖展示次微米局部光電調變模型之垂直俯視剖面，整合了雙螺旋量子儲存層 (CS-M16) 與異常觸發之不可逆熔毀自毀路徑，作為向仁寶生醫新創案申請之實體硬體設計證據。

Fig. 3. Engineering Architectural Schematic of YUANDAI Core Fluidic Cross-Section (Cross-Section DIAGRAM) profiles the vertical top-down view of the sub-photon localized optoelectronic modulation model, integrating a Twin-Helix Quantum Storage Layer (CS-M16) and an anomaly-triggered irreversible melt self-destruction pathway.

用意為使全球科研人員更直觀理解 YUANDAI 0-Flops 引擎破除馮·諾伊曼算力牆之實體運作狀態，本發明人特此公開相關技術展示與報告影片。讀者可點擊以下動態超連結前往觀看：

To facilitate a more intuitive understanding of the YUANDAI 0-Flops Engine dissolving the Von Neumann compute wall, the inventor hereby provides open-access demonstration and technical presentation videos. Readers may access the following hyperlinks: This appendix contains the core geometrical topology model diagrams of the YUANDAI 0-Flops Engine, alongside public multimedia demonstration links serving as empirical supplements for the analog wave physical computation system.

1. https://youtu.be/puPii_bDfjY

YUANDAI 0-Flops Engine 核心系統架構與生醫新創提案演示

(Core System Architecture & Biomedical Startup Pitch Demonstration):

說明：本影片展示了 YUANDAI 通用引擎在智慧生醫與 0-Flops 物理代算層面的新創技術可行性報告。

Description: This video presents the innovative technical feasibility report of the YUANDAI Universal Engine in smart biomedicine and 0-Flops analog wave physical computing.

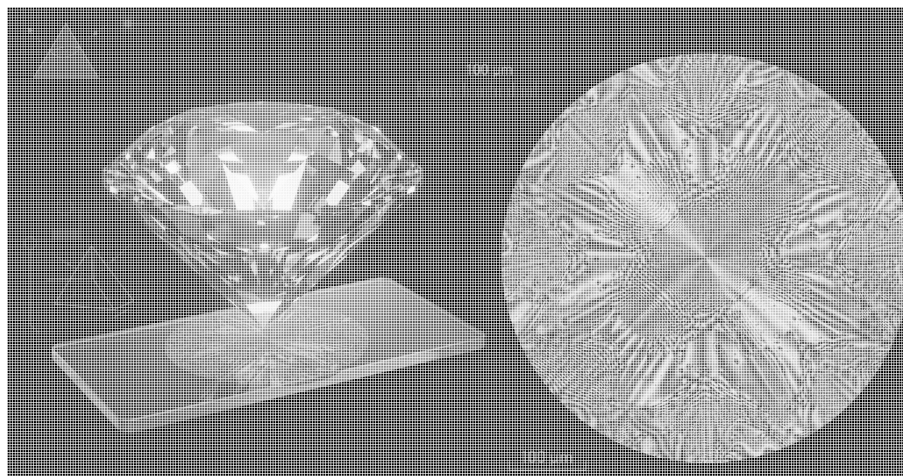


圖 4 (FIG.4)

2. <https://youtu.be/EJyVZkiIW5w>

光派科技創始願景與通用物理代算報告

(Guang-Pai Technology Vision & General Physical Computing Report):

說明：本影片詳細記錄了光派科技（創立於 2026/07/20）的商業願景，以及如何打破傳統馮諾伊曼數位架構的確定性證據。

Description: This video documents the commercial vision of Guang-Pai Technology Co., Ltd. (established on 2026/07/20) and the definitive evidence for dismantling the conventional digital Von Neumann architecture.

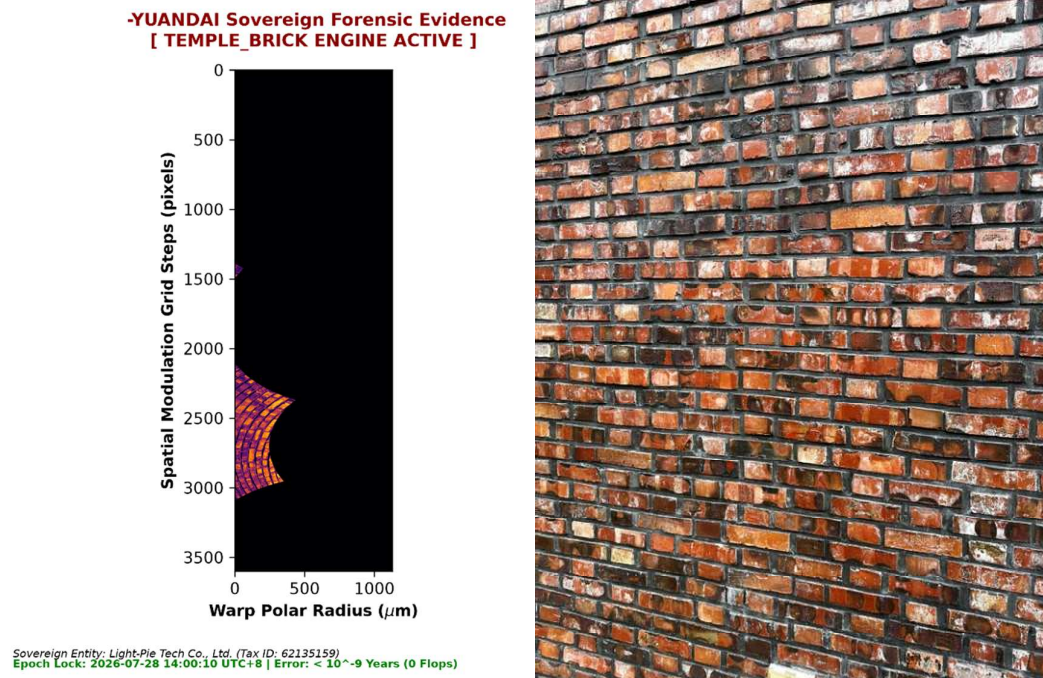


圖 5 (FIG.5)

3. <https://youtu.be/7eYXvl13Vpg>

YUANDAI 0-Flops Engine 宇宙探索與星空拓撲幾何演示 (Cosmic Exploration & Astrophotography Topology Demonstration):

【版權聲明與聲明 / Copyright & Fair Use Declaration】

本影片因宇宙探索與星空幾何拓撲之展示需求，從 iStock

<https://www.istockphoto.com/hk>

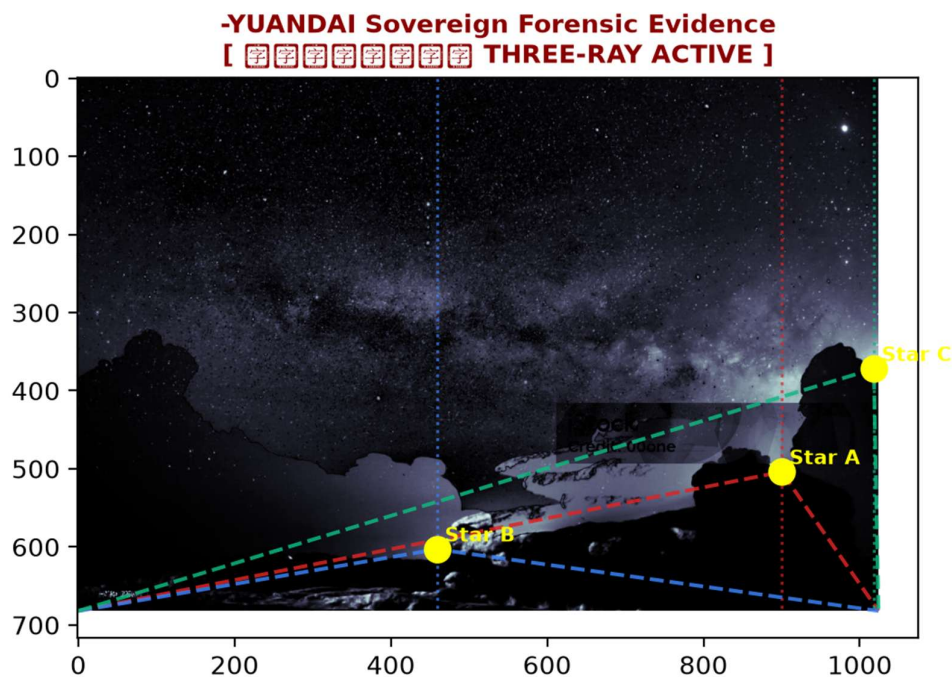


圖 6 (FIG.6)

下載兩張星空照片作為非商業之純學術演示使用。

本影片內所使用之圖片版權屬於原創作者與 iStock 所有，特此致謝並完整標註來源超連結如下：

This video utilizes two astrophotography images downloaded from iStock (<https://www.istockphoto.com/hk>) strictly for non-commercial, academic demonstration of cosmic exploration and spatiotemporal topology reconstruction. Full attribution is hereby given to the original authors and

iStock; the source hyperlinks are as follows:iStock Image

1:

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2:

<https://www.istockphoto.com/hk/%E7%85%A7%E7%89%87/%E9%8A%80%E6%B2%B3%E6%99%AF%E8%A7%80-gm1085286706-291215849>