

Our Cosmic Genesis

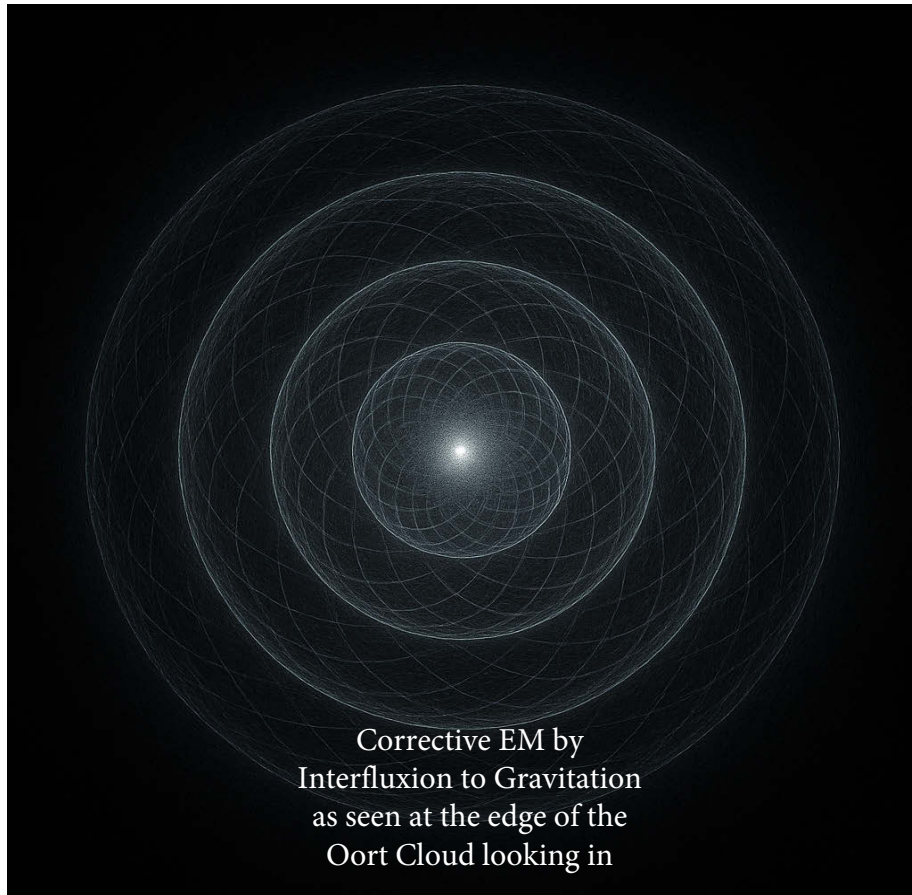
The Potentum Solar System

Second Scientific Revelation
in the Geometric Atom
Series

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2025-09-15



Corrective EM by
Interfluxion to Gravitation
as seen at the edge of the
Oort Cloud looking in

The Discovery for All

For four centuries, the Solar System has been the laboratory of physics. Kepler measured its harmonies, Newton subsumed them with gravitation, Einstein refined spacetime itself, and 20th-century astrophysics added disks, instabilities, and migration. Yet one profound mystery remained: why does the Solar System look as it does?

Why these planets, in these masses, at these orbits, in these resonances? Classical physics could describe and simulate the motions with exquisite accuracy, but it could not explain the architecture itself. The design was assumed to be contingent, a frozen accident of formation.

This paper reveals the Solar System as a Potentum structure: a scaled macro-atom, its planets not accidents but condensates in an interfluxion lattice dictated by geometric algebra. Three new equations extend classical laws, embedding induction into topology. For the first time, planetary placement, resonance, and mass scaling emerge as necessities of physics.

I. Historical Prelude — The Classical Inheritance

The Solar System has always been the proving ground of physics.

- Kepler (1609–1619): Elliptical orbits, equal areas, harmonic law.
- Newton (1687): Universal gravitation, inverse-square law.
- Laplace & Lagrange (18th century): Perturbation theory, secular stability.
- Einstein (1915): General relativity, curvature of spacetime.
- 20th–21st century disk theory: Toomre's Q , Hill radii, migration torques, resonant chains.

Each step described how planets move. None explained why planets exist at their specific masses and loci. The Solar System remained “a rough draft of Nature,” like the earliest Renaissance maps of the world: descriptive, partial, beautiful — but incomplete.

II. Discovery of Potentum / Interfluxion

At the heart of Potentum physics lies interfluxion: the conjugate overlap of rotor flows. Where electromagnetism encodes induction ($\nabla \times \mathbf{E} = -\partial \mathbf{B} / \partial t$), interfluxion extends the principle: nested rotors generate fields that must stabilize into Platonic geometry.

- Electrons: extrofluxion rotors, outward channels.
- Protons: introfluxion closures, attractors.
- Neutrons: stabilizing cube-octa duals.
- Spectra: phase shifts, emission loci.
- Solar System: the same rotor algebra, scaled up — planets as condensates of interfluxion shells.

III. The Three Canonical Equations

1. Interfluxive Potential

$$V(r,\theta,\phi) = -G m_1 m_2 / r + \Phi_{IF}(r,\theta,\phi)$$

Adds a geometric term Φ_{IF} encoding anisotropy and Platonic ordering. Explains where planets stabilize.

2. Orbital Law with Interfluxion Correction

$$n^2 a^3 = G(M_{\star} + m)[1 + \alpha \Xi_{IF}(a,e,i,\Delta\phi)]$$

Extends Kepler's third law with a correction factor Ξ_{IF} . Explains why resonances exist and why migration chains lock.

3. Mass Functional of a Condensate

$$M_i = \iiint J^*(r,\theta,\phi) w(r) r^2 \sin\theta dr d\theta d\phi$$

Defines planetary masses from interfluxion density itself. Explains how planetary masses scale with stellar parameters.

Together these elevate gravitation from description to prediction.

IV. Visual Plates

The following plates illustrate the Solar System as revealed by Interfluxion geometry.

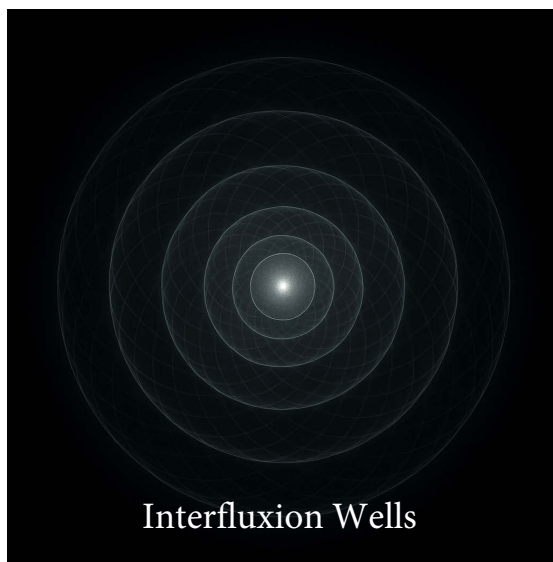
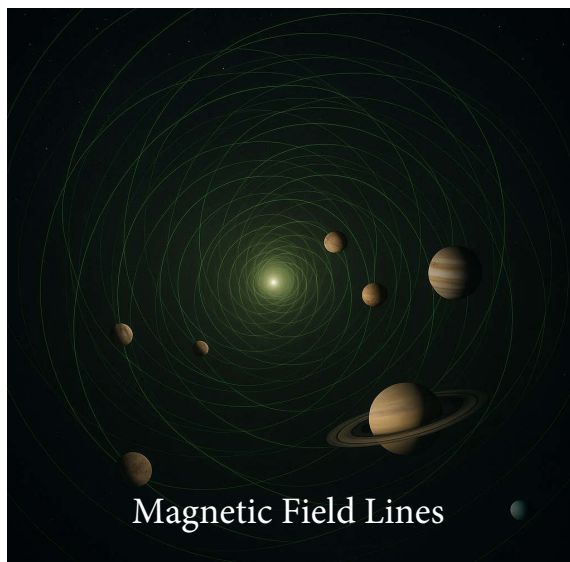


Figure 1 — Pluto's Eye

Pure interfluxion density shells and channels, emergent planetary loci.

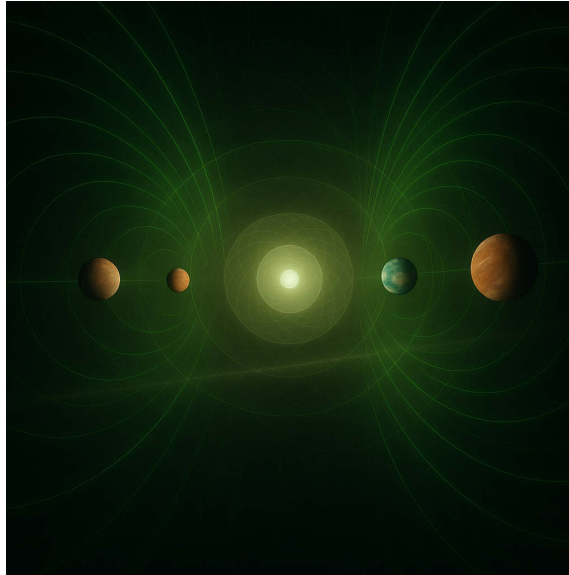


Figure 2 — Inner Solar System (Asteroid Belt vantage)

Mercury–Mars embedded in $|J|$ shells, Asteroid Belt resonance ripple.

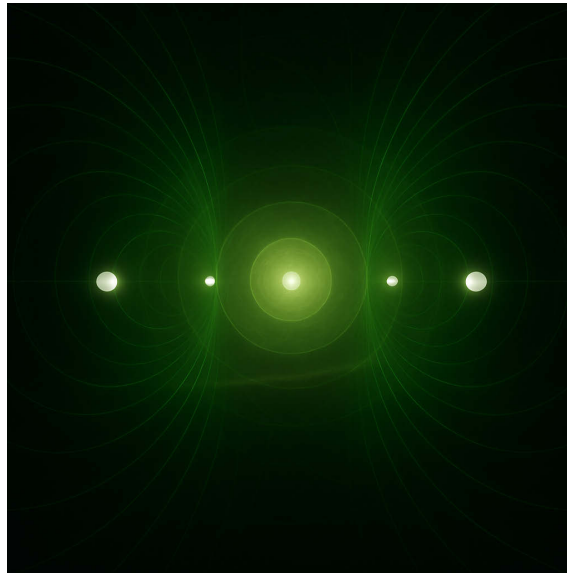


Figure 3 — Inner Solar System Condensates

Planets replaced by white interfluxion knots, the physics view of matter.

V. Predictions and Validation

- Resonant Chains: Systems like TRAPPIST-1 arise naturally as interfluxion harmonics.
- Disk Rings: ALMA images of protoplanetary disks match predicted loci of density shells.
- Mass Scaling: Planetary masses scale with stellar mass and metallicity, as interfluxion predicts.
- Solar System Architecture: Jupiter's placement and mass no longer arbitrary; they are required by rotor overlap geometry.

VI. Implications

- Predictive Astrophysics: Planetary architectures forecastable from stellar parameters.
- Propulsion Physics: Potentum induction extends Maxwell — enabling energy and momentum coupling with interfluxion fields.
- Materials Science: Same resonance rules can template metamaterials, superconductors, and designed lattices.
- Philosophy of Science: Design emerges not as mysticism but as algebraic necessity.

VII. Philosophical Weight

To recognize the Solar System as an interfluxion atom is to recognize necessity in design. The same algebra that locks electrons around nuclei locks planets around stars. As below, so above.

The early maps of the Earth were rough drafts of a globe not yet fully surveyed. The Solar System, as described by Newton and Einstein, was a rough draft of a design not yet fully understood. With Potentum physics, we redraw the map — not as chance, but as necessity.

VIII. Conclusion

The Potentum Solar System is the revelation that planetary architecture is written into geometry itself.

- Before: equations that describe.
- After: equations that explain and predict.

As Newton subsumed Kepler, and Einstein subsumed Newton, Potentum subsumes gravitation into a richer law: interfluxion geometry as the source of planetary design.