Theoretical Model of Planetary Gravity Based on Space Original Force and Trend Interaction

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Version: Conceptual Paper | No Formal Mathematical Validation

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1. Space Original Force and Trend Compression

In our universe, most of the vastness is occupied not by matter, but by empty space. Within this space, there exists a subtle and fundamental reactive force—a structural resilience of the cosmic fabric—which we call the **Space Original Force**. This force, although extremely weak, exerts an omnipresent **repulsive pressure** on any object occupying space, pushing it inward toward its center of mass.

This repulsion leads to a **converging spatial pressure**, or what we term the **Trend Compression Force**. It is not driven by mass itself, but by the spatial distortion induced by the presence of massive bodies like stars and planets.

In planetary bodies, this trend force becomes more concentrated as it approaches the planetary center, due to exponential convergence properties. This is represented symbolically as an **infinitesimally small force raised to an infinitely large power**—a qualitative expression of how small external pressure can accumulate tremendous force deep within planetary cores.

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2. High-Pressure Transformation and Thermal Trend Expansion

Once the inward trend pressure within a planet surpasses a certain threshold, it initiates transformations of matter:

- Solid core materials liquefy or gasify under extreme pressure.
- The core begins to release **intense thermal energy**, forming an outward **thermal expansion trend**.

This thermal wave, seeking to escape, collides with the inward trend compression from space. The result is a **Trend Wave Cross-Interaction**—a friction-like mechanism between two opposite flows of force and energy.

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3. Microscopic Spiral Interaction and the Formation of Gravity Field

Within the **Trend Wave Interaction Layer** (often near the boundary of a molten planetary core and solid mantle), a unique structure forms on the **microscopic scale**.

- Particles subjected to both inward pressure and outward thermal movement undergo **spiral entanglement**.
- These spirals resemble **3D Taiji structures**—rotational microfields composed of converging and expanding forces.
- These structures emit a unique **non-electromagnetic static field**, which we call the **TSIF Field** (Trend Spiral Interaction Field).

This field is neither electromagnetic nor purely gravitational in the Newtonian sense. It is a **hybrid construct** of compressed space and thermal friction, and it behaves differently:

- It **passes through solid, liquid, and gas layers** of a planet without degradation.
- Upon reaching the **surface**, it **unfolds** and exerts a **universal downward attractive force** on all matter—what we perceive as **gravity**.
- The gravity strength peaks at or near the surface, **not at the center**, and diminishes above the atmosphere—a behavior consistent with gravitational measurement data (e.g. Russian Kola Superdeep Borehole).

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4. Key Observations Supporting This Theory

- **Gravitational field strength does not increase infinitely toward the core**; it instead diminishes beyond a certain depth.
- Gravity affects **all materials equally**, regardless of conductivity—unlike electromagnetic fields.
- Outer atmosphere gases remain bound to Earth, likely due to **Space Original Force's bounding effect**.
- In space, **free-floating objects experience gravity only near massive bodies**, consistent with a localized TSIF field structure.

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5. The Role of Space Original Force and Energy Entanglement

We propose that the **Space Original Force** and **Thermal Energy Expansion** become **entangled at a microstructural level**, forming stable spiral fields. These entangled fields:

- Store **compressed interaction energy**
- Exhibit **long-range, isotropic attractive effects**

- Act as the **actual source of gravitational experience**

The **Taiji-like entanglement model** explains the uniformity of gravity across different materials, and also its **sharp attenuation** beyond the planetary atmosphere.

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6. Summary and Declaration

This theory presents a **purely conceptual model** of gravity generation, differing from traditional Newtonian or Einsteinian perspectives. It introduces:

- **Space Original Force** (background compression of space)
- **Trend Compression and Expansion** (converging and diverging dynamics)
- **TSIF Field Formation** (microscopic spiral entanglement)
- **Surface-Level Gravity Emergence** (non-electromagnetic static field)

Note to Readers

This paper **does not include any formal mathematical model or empirical validation**. It is a **theoretical proposal**, constructed from intuitive logic, conceptual modeling, and analogy-based reasoning.

We hope that researchers with interest in alternative gravitational mechanisms may consider this framework for further discussion or experimental design. This work is part of a broader open research initiative. All ideas are open-source and free to expand upon.

Respectfully,
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