

Inquiry of Origin,

All Inquiries can not be achieved by Induction and Deduction alone; ***Creative Inference*** using **Results (characteristics) of Evolution**, called **Abduction** is a **Method of Evaluation** that transcends **Time and Space**.

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In **Induction** and **Deduction Methods**, it is Impossible to verify because **Reproducibility Experiment cannot be erformed** even if Initial state is assumed.

Even if only One Item can be confirmed by Simulation, it is necessary to explain All Results of Evolution in a unified manner. If that is Not Possible, it cannot **be Verified**.

On Other hand, in **Multi-Impact Hypothesis**^[3], **Differentiated Mars-Sized Protoplanet CERRA** formed at Asteroid Belt Position is perturbed by Giant Mass Planet (Jupiter) formed thereafter. In about 600 million years, CERRA Orbit flattened to Near Point of Jupiter, and Tidal Rupture occurred at Point where Gravitational pull of Jupiter and Sun coincided, resulting in Multiple Train Mantle Asteroids and a Single Orbit around Same Elliptical Orbit. Because Core and Rest of Mantle were large in Mass, Peripheral Speed decreased due to Law of Equal Energy Distribution and moved to Inner Orbit to become Mercury.

By Comparison, Mercury's Core / Mantle ratio was shown to be about twice that of other terrestrial planets, and Origin of Same Component Ratio of Inner Planets was also easily shown; Of course, Feeding Zone could be explained. Was calculated from Theoretical Hypothesis that Inevitable Collision at Intersection with Earth's Orbit, Relative Angle of 36.45 degrees, and Relative Speed of 12.3 km /s were obtained.

Furthermore, Orbital Energy of Moon ($60 \times R_e$) was also shown, and Collision of Earth Mantle with Mantle Fragment did not deform Earth core and could explain Eccentricity of Moon due to Ejection of Earth Mantle. Origin of Deep Ocean Floor (approximately 70% of Surface Area) with an average Depth of about 4 km and Origins of Pacific Rim-Arc, Back Arc Basin, and Arc Trench were also explained by Isostasy.

Collision causes Cracks in Mantle, lowers Viscosity of Upper Mantle and makes Plate easier to move. Unbalance of Moment of Inertia between Marine Plate and Land Plate and Couple due to Earth's Rotation cause Movement of Plate and Transformation Fault and Ring Oceanic Convex Plate began to dive beneath Pacific Back-Arc Concave Basin, giving rise to Plate Tectonics.

On Other Side of Collision of Giant Mantle Fragment, a **Shock Wave** is transmitted at Same Time, Forming a **Kimberlite Pipe** and a **Diamond Mine**. Collisions to High latitude (near **Drake Strait**) that formed Tethys Sea caused **Tilting of Earth Axis**, Origin of Mirunui Mine, and caused a **Sudden Change** in Direction of

Plate driving.

It cannot be explained by **Thermal Convection Driving Force**.

Since the Earth's mantle is as dense as the interior, the moon from the ejected mantle is eccentric (approximately 2 km). Even if the mantle near the molten crust is re-covered in a spherical shape, the dense basalt remains near the lunar surface and faces the surface. When a meteorite collides with the surface, Black basalt inside melts and flows out, forming a Moon-Sea and Rabbit Pattern.

The eccentric moon rotates around the earth and the common center of gravity inside the earth, and the heavy part is located on the side of the center of gravity, causing it to always face the earth.

More Items that can explain Multiple Results of Evolution (Yuichi's experiment) in a unified manner, More True it is in Abduction.

Origin of Earth as well as **Origin of Moon** ^[3] and the solar system could be verified by **Abduction** using **Results of Evolution**. ^[3] JpGU Sep.2014 P1-22 Akira Taneko

Keywords: Search for All Origins cannot be achieved by Induction and Deduction alone., Creative reasoning using Results (Characteristics) of Evolution called Abduction, An Evaluation Method that transcends Time and Space, The example of transcending time: "Multi-Impact Hypothesis", Example of transcending space and time: "New stationary cosmology with quantum redshift", Induction and Deduction can verify only Periodic Phenomena

