What can be obtained in Mult Impact Hypothesis by Abduction? Approaching the mystery of Origin of "Solar system and Asteroid belt"! \*Akira Taneko<sup>1</sup> 1.SEED SCIENCE Lab. The origin of the moon and asteroids, remains unresolved. There is a distance from the earth, a past of biological birth before, but further experiments impossible. But can be elucidated in meteorite research, is a rare material available, thermal history by burning at the time of fall is it difficult to origin analysis. It can not be explained that there is a differentiated meteorites (Stony, iron, stone iron meteorite) and undifferentiated meteorite. What can be obtained in Mult Impact Hypothesis by Abduction? Approaching the mystery of Origin of "Solar system and Asteroid belt"! Efficacy of abduction is determined all in the selection of "physically meaningful hypothesis". "That multiple conclusions can be explained systematically without contradiction to each other the current situation" is the proof. The "Multi-Impact Hypothesis," to give the hypothesis with the following "Linking the moon and the earth of the Missing Link," a unified reasoning of (A) and (B). (A) Differentiated protoplanetary CERRA of Mars size formed in the asteroid belt position of the solar system, by the perturbation of the most recent of Jupiter (giant mass), orbit is flattened to Jupiter near point side. (B) Immediately before the CERRA to Jupiter collision, ruptured at a tension of Jupiter and the sun, the mantle piece collide intersects the Earth orbit.by Abduction (1) Moon of origin: collision mantle piece to Earth (12.4km / s, 36.5 degrees), and formed in the orbit radius 60 · Re position \*(2)Pacific Rim arc-shaped archipelago marginal origin: In the Pacific Ocean position collision at the time of moon formation, Depression marginal sea forming in all directions \*(3)By a large amount of mantle deficient moon formation collision, Van Allen belt of Brazil of core eccentricity (about 10%) was reduced. \*(4)CERRA it takes about 5-6 million years until the track flat torn in Jupiter perturbation, had already differentiated cooling. \*(5)Multiple of mantle piece collide to Eartht by peeling off the mantle , 70% of the sea surface of the earth -5km was formed by isostasy. \*(6)Origin of plate tectonics PT , minimization of the eccentric and the moment of inertia caused by the collision as the driving force. \*(7))Origin of plate boundary , Crust peeling due to the mantle piece collision and crack formation \*(8)Origin of arc-shaped archipelago and Marginal basin plate : Mantle deficit by collision and plate concave formed by isostasy \*(9)The origin of the start of subduction convex plate : When the concave plate and the convex plate each other press by the driving force , cause the convex crawl under concave. (10) Fragments at break of CERRA is the origin of the asteroid belt. Understood in the distribution of long radius (kinetic energy) (11) The meteorite, but differentiated stony, stony-iron and iron meteorites are mixed, it can be understood with the fragments of CERRA.

experiment?

(12)There are several fragments of CERRA, large species extinction repeated happened with sequentially collision.
(13)Core and part of the mantle of CERRA, the mass is large energy such as distribution, It became a low orbital energy Mercury with law of equipartition of energy.
(14)The fragments of CERRA that has collided to Jupiter, was the origin of the Great Red Spot.
cf. Shoemaker Levy No. 9 comet collide with Jupiter in July 1997, collision marks remained about half a year as small red spots.
If large Serra of debris from the comet, it is possible to maintain the Great Red Spot without disappear from the hundreds of millions of years ago. Is this in the finished demonstration

To estimate the origin of the asteroid belt, what to elucidation of purposes in the sample return plan is made clear.

Keywords: the mystery of Origin of "Asteroid belt", Abduction, Multi-Impact Hypothesis, The origin of Aasteroid, Origin of differentiated Meteorites, Undifferentiated Meteorite, Chondrite

