## The HH(Hula-Hoop Rotation-Revolution) Model indicate Resonance relation between Revolution of the Planet and Rotation of the Sun

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TITLE :

The Musical scale Model and HH(Hula-Hoop Rotation-Revolution) Mathematical Model indicates Commensurability or Resonance relation between Rotation of the Sun and Revolution of the Planet, and also between Rotation of the Planet and Revolution of the Sattellite.

In addition, the Musical scale Model and HH Model indicate Resonance relation between Rotation of the Minor Planet and Also Rotation of the Sun.

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The HH (Hula-Hoop ) Model on Rotation of the Sun and Revolution of the Planet in case of observed Sun's Rotation Period ; A = 25.38 days.

The HH (Hula-Hoop Rotation-Revolution) Model indicates the Commensurability or Resonance relations between Rotation of the Sun and Revolution of the Planet, and also between Rotation of the Planet and Revolution of it's Satellite.

About the HH( Hula-Hoop Rotation-Revolution ) Model, between Rotation of the Sun and Revolution of the Planet; Let the Rotation period of the Sun : (A), A = 25.38 days. the radius of the equator of the Sun : (R), R = 696,000 km. the Revolution period of the Planet : (Y), eg. Y = 365.25 days. the Revolution radius of the Planet : (K), eg. K = 149,597,870 km. and virtual Hula-Hoop's diameter equals to (K). eg. is our Earth.

Then the virtual Hula-Hoop's radius : (H), eg. H = 74,798,935 km. H=K/2 should be realized. Suppose the Revolution period of a virtual Hula-Hoop synchronizes to the Rotation period of the Sun : (A), A = 25.38 days then the Rotation period of virtual Hula-Hoop : (X), X = 2727.6 days X=(H/R)\*A should be realized. (X) : (Y) = 2727.6 : 365.25 = 15 : 2

We tried to apply the observed data to the above model and found out that between the Rotation period of virtual Hula-Hoop : (X) and the Revolution period of the Planet : (Y), Y = 365.25 days. indicate Commensurability or Resonance relations in many cases.

About the HH (Hula-Hoop Rotation-Revolution) Model, between Rotation of the Planet and Revolution of the Satellite; Let the Rotation period of the Planet : (D), eg. our Earth, D = 0.9973 days. the radius of the equator of the Planet : (R), eg. our Earth, R = 6,378 km. the Revolution period of the Satellite : (M), eg. our Moon, M = 27.3217 days. the Revolution radius of the Satellite : (K), eg. our Moon, K = 384,402 km. and virtual Hula-Hoop's diameter equals to (K). eg. is our Moon.

Then the virtual Hula-Hoop's radius : (H), eg. our Moon, H = 192,201 km. H=K/2 should be realized. Suppose the Revolution period of a virtual Hula-Hoop synchronizes to the Rotation period of the Planet : (D), D = 0.9973 days. then the Rotation period of virtual Hula-Hoop : (X), eg. X = 30.0536 days. X=(H/R)\*D should be realized. (X) : (M) = 30.0536 : 27.3217 = 8 : 7

We tried to apply the observed data to the above model and found out that between the Rotation period of virtual Hula-Hoop : (X) and the Revolution period of the Satellite : (M), indicate Commensurability or Resonance relations in many cases.

Finally, the Musical scale Model indicates Resonance relations between Rotation of the Sun and Rotation of the Planet and also, between Rotation of the Sun and Rotation of the Minor Planet (Asteroid), that was observed by lightcurves.

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