

A Simple and Fluent Explanation for the Greater Angular Velocity (Ω) of the Giant Gaseous Planets Compared with the Rocky Planets in the Solar System, in the Universe 2026

Gh. Saleh

Saleh Research Centre, Netherlands

Given that the rotational motion of planets and stars originates from the initial motion of particles during the early inflationary period, at which time all particles possessed both linear and rotational motion, stars and planets have been, and continue to be, formed through the joining together of these primary particles. In the giant planets of the solar system, particles likewise joined together in this manner. If the central core of the giant planets is considered, it is generally found to consist of a rocky core; were the angular motion of this rocky core about its own axis to be properly calculated, its angular speed value would be found to correspond with that of Earth and Mars. When, however, consideration is given to the gaseous outer layer of the giant planets, which they generally possess, a greater angular speed is observed, due to the greater mobility of gases.

This may be compared with the atmosphere surrounding the Earth's crust: the surrounding air is invariably found to move at a greater speed than the crust itself, as is evident in large storms, where a speed difference of several hundred kilometres from the surface of the crust may be observed.

Conclusion:

It may therefore be stated, in general terms, that the greater angular speed of the giant planets, compared with that of the rocky planets, is attributable to the gaseous nature of their outer layers, which also constitute the greatest proportion of the planetary surface.

References:

- [1] Saleh, Gh. "Demonstration of Rotational Particle Motion During Inflation (Post-Big Bang) Using the Energy Discrepancy Between the Giant Planets and the Dwarf Planets of the Solar System." Saleh Theory, 03 Jul 2026, <https://saleh-theory.com/article/demonstration-of-rotational-particle-motion-during-inflation-post-big-bang-using-the-energy-discrepancy-between-the-giant-planets-and-the-dwarf-planets-of-the-solar-system>
- [2] Saleh, Gh. "An Answer to the Questions Raised in the NASA Challenge (APOD) Concerning Planetary Orbital Speeds, the Axial Tilt of Uranus, and the Retrograde Rotation of Venus." Saleh Theory, 30 May 2026, <https://saleh-theory.com/article/an-answer-to-the-questions-raised-in-the-nasa-challenge-apod-concerning-planetary-orbital-speeds-the-axial-tilt-of-uranus-and-the-retrograde-rotation-of-venus>
- [3] Saleh, Gh. *The Reform Book: A Revolution in Modern Physics*. Volume II, Saleh Research Centre, 2026, <https://saleh-theory.com/files/article/pdf/the-reform-book-a-revolution-in-modern-physics-vol2-2026.pdf>



[4] Saleh, Gh. "A Lucid Explanation of the Ordered Pairing of Planets in Our Solar System." Saleh Theory, 24 Jun 2026, <https://saleh-theory.com/article/a-lucid-explanation-of-the-ordered-pairing-of-planets-in-our-solar-system>

[5] Saleh, Gh. The Reform Book: A Revolution in Modern Physics. Vol. 1, Saleh Research Centre, 2026, <https://saleh-theory.com/files/article/pdf/the-reform-book-a-revolution-in-modern-physics-2026.pdf>

[6] Saleh, Gh. " Hubble's Invariable Law and Its 10 Excellent and Useful Applications." Saleh Theory, 12 Jul 2025, <https://saleh-theory.com/article/hubbles-invariable-law-and-its-10-excellent-and-useful-applications>

