

Coorbital relationships, where bodies share the same orbital period, are exemplified by Trojan asteroids associated with Jupiter and coorbital satellites of Saturn.

Known orbital resonances in the solar system are identified, including those involving Jupiter's satellites Io, Europa, and Ganymede; Saturn's satellites Mimas and Tethys, Enceladus and Dione, and Titan ...

This is not a simple coincidence but an important gravitational effect called orbital resonance that determines the dynamical structure of the solar system. In the orbits with simple numerical ...

The orbital mean motions are then said to be nearly commensurate, and an asteroid that is trapped near such a mean motion commensurability is said to be in an orbital resonance with Jupiter.

Several of the planets and moons in the Solar System are in orbital resonance, orbiting in a geometric lockstep. And not just the Solar System, astronomers have found the same resonances in other star ...

To Kepler, the solar system had two basses, Jupiter and Saturn; a tenor, Mars; two altos, Venus and Earth; and a soprano, Mercury. These roles reflected how long it took each planet to orbit...

Jupiter and Saturn planets resonate in 5:2 rate, they meet 3 times during 5 Jupiter years and 2 Saturn years, with a difference of 242 Earth-days in orbital (prograde) direction (which is 9.7309×10^{-6} , or 1.125% ...

The satellite system of Uranus is notably different from those of Jupiter and Saturn in that it lacks precise resonances among the larger moons, while the majority of the larger moons of Jupiter (3 of the 4 ...

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