

Hipparchus

Hipparchus was the greatest astronomer of antiquity. He was the first to compile a catalog of stars, the first to devise a coordinate system for the sky, the first to use an armillary astrolabe to measure celestial positions, and perhaps the first to discover a long-term wobble in Earth's axis that we now call precession of the equinoxes.

Hipparchus also developed theories for the motions of the Sun and Moon, and measured the eccentricity of the earth's orbit (fairly accurately, too!)

The Hipparchan model for orbits was based on an eccentric circle, with the planet (Sun or Moon) moving along the orbit in uniform circular motion, and the earth offset from the center of the circle.

See Also

[apsidal](#)

[04 - Molecular Radiation](#)

[9.24 - Elliptical Enharmonic Orbit](#)

[antagonistic molecular bombardment](#)

[Apsidal](#)

[atomic intermolecular and molecular density](#)

[compound molecular aggregation](#)

[cycloid motion](#)

[cycloid motive impulse](#)

[cycloid](#)

[cycloid-space-curve motion](#)

[cycloid-space-curve system](#)

[cycloid-space-curve](#)

[cycloid-space-curve-motion](#)

[cycloid-spiral-space-curve](#)

[differential molecular volume](#)

[dissipation of energy in molecular aggregation](#)

[Earth Wobble](#)

[earth](#)

[ellipse](#)

[ellipsoid](#)

[elliptical orbit](#)

[Figure 1.9 - Keelys Molecular Morphology](#)

[Figure 10.05 - Three Orthogonal Planes where Six Gyroscopic Vortices Converge](#)

[Figure 3.21 - Vortex or Gyroscopic Motions as Conflicts or Antagonisms between Light and Dark](#)

[Figure 3.22 - Vortex or Gyroscopic Motions as Conflicts or Antagonisms between Light and Dark Zones](#)

[Figure 3.23 - Vortex or Gyroscopic Motions as Conflicts or Antagonisms between Light and Dark Zones](#)

[Figure 3.28 - Compression and Expansion Forces in Gyroscopic Motions](#)

[Figure 3.30 - Discrete Degrees or Steps in Gyroscopic Compression Motion](#)

[Figure 4.5 - Compound Gyroscopic or Vortex Motions](#)

[Figure 5.3 - Vortex or Gyroscopic Motion is Natural and occurs ubiquitously](#)

[Figure 5.4 - Vortex and Gyroscopic Motion on One Plane then on three forming Sphere](#)

[first order of intensified molecular vibration](#)

[FORCES DERIVED FROM INTRA-ATOMIC ENERGY - MOLECULAR FORCES, ELECTRICITY, SOLAR HEAT, ETC.](#)

[Fraunhofer Lines](#)

gyroscope
gyroscopic principle
Gyroscopic Reactionless Drive
Hipparchus
inner molecular excitation
inter-sympathetic vibratory molecular link
intermolecular field
InterMolecular
Law of Molecular Synthesis and Combination - Organic
Levitating Gyroscopes
looping
molecular action
MOLECULAR AGGREGATES
molecular aggregation
Molecular Arch
molecular bombardment
molecular condition
molecular differentiation
molecular disintegration
MOLECULAR DISSOCIATION - Snell
Molecular Dissociation
molecular disturbance
molecular fermentation process
molecular focalization and redistribution
molecular friction
molecular interaction
molecular mass
molecular motion
molecular movement
MOLECULAR OSCILLATING FREQUENCY
molecular oscillation
Molecular percussion
molecular processes
molecular range of motion
molecular separation
molecular structure
molecular sympathetic transmission
molecular uniformity
molecular vibration
molecular volume
molecular
motion
New Concept - Wobbling Gyroscopes Seek Balance
New Concept - XXXI - Introducing the Gyroscope into the Octave Wave
New Concept - XXXII - The Nucleus is the Hub of the Gyroscope Wheel
New Concept - XXXVI - Wobbling Gyroscopes Seek Balance
orbit
planet
plus-molecular
Polarity Controlled Electric Gyroscope
range of molecular motion
spin

spiral

spiral-ellipse

Sympathetic Chord Molecular

system of cycloid-space-curves

THE MOLECULAR WORLD

The Practical Application of Cycloid-Space-Curve-Motion arising from Processes of Cold Oxidation

theory of elliptic functions

Triple Triplet Flows

Triple Triplet

uniform molecular link

vortex