

Correspondence with Avicenna (Ibn Sina) over two years!

Dispute over the eternity of universe (vs. Avicenna)

- Advocates universe has a beginning, created (by God)
- Similar to Al-Ghazali & St. Augustine

Strongly attacked Aristotle's ^{Celestial Physics / natural philosophy} Beginning of universe vs. eternal matter (celestial)
Al-Biruni rejects Aristotle's idea of heavenly bodies have no mass
He also rejected "static" universe and argued elliptical orbits
* Universe not created as whole!

Rejected viewing the world thru the lens of metaphysics
advocated viewing it thru the lens of science *

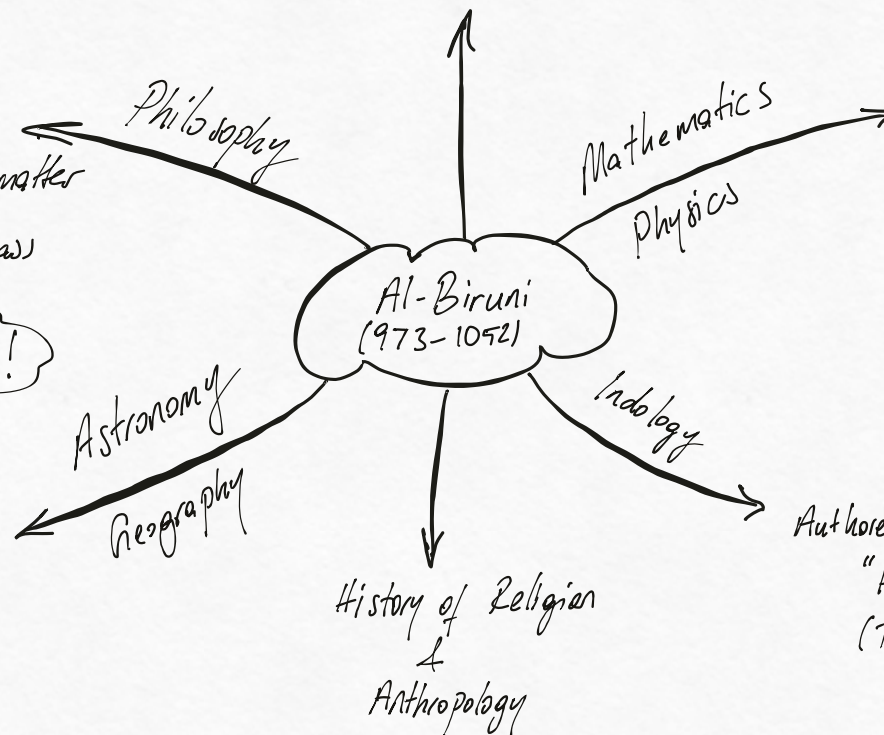
Method to determine Earth's radius (leveraged height of mountain & trigonometri)
he measured it by only 2% inaccuracy vs. actual
He "theorized" the existence of Americas

Born in Khwarezm, modern day Uzbekistan

Islamic Golden Age

Wrote 146 books on multiple disciplines

Physics, mathematics, astronomy, history, geometry



• He was the first dividing hour sexagesimally (base of 60) into minutes & seconds

• Developed hydrostatic experimental method to measure density of irregular shaped solids

• Developed algebraic techniques to solve 3rd degree equations

Authored the encyclopedic book "History of India" (Tarikh al-Hind)

remained unbiased!!!

He studied culture, science, religion areas of India

He studied religions comparatively and genuinely tried to understand them rather than trying to prove them

"All cultures are distant relatives, because includes human as common element"

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(First) Anthropologist / One of the greatest social scientists