

Competing Cosmologies

Geocentric

Ptolemaic

Earth at center

Heliocentric

Copernican

Sun at center

The sun is the source of light in both models

Explains

- **Motion of Sun**
- **Motion of Moon**
- **Solar and Lunar Eclipses**
- **Phases of Moon**

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Retrograde Motion

Needs epicycles

Consequence of Lapping

Inferiority of Mercury & Venus

Must tie to sun

Interior to Earth's Orbit

Predicts

- No parallax
- Venus: crescent phase only
- angular size variation small

- Parallax
- Venus: all phases
- angular size variation large