



40 YEARS OF BAADER PLANETARIUM

proved our concept of **including the heliocentric as well as the geocentric way of viewing** in one planetarium to be a very successful basis for introducing students into space science and astronomy. There is **no other instrument** available, which uses Earth's **real motion** (that is the earth's diurnal rotation and its annual revolution) to explain the apparent diurnal and annual movements of Sun, Planets and Fixed Stars.

As a result of such demonstrations with a BAADER PLANETARIUM, we reformulated the crucial knowledge of ARISTARCHUS OF SAMOS and NICOLAUS COPERNICUS in regard to the distances between Earth, Sun and Fixed Stars, to say: **"The distance between Earth and Sun (150 million km) is a nearly zero, compared to the distance between Earth and Fixed Stars."**

In using the BAADER PLANETARIUM, the model Solar-System (orrery) is to be understood **as a point in the center of the celestial globe**. In this way we explain the minute parallax of the Fixed Stars in contrast to the seasonal height of the Sun ("Sun's annual parallax"). Moreover, the retrograde motions of the Planets are verified as a question of distance under which they are being observed.

Given such preconditions a BAADER PLANETARIUM is able to provide an ideal introduction into **positional astronomy** as well as into the basics of **astronomical determination for longitude and latitude**. Solar time and Sidereal time as well as Solar day and Sidereal day are made understandable. Moreover, Precession movement can be demonstrated with a BAADER PLANETARIUM as the changing direction of the Earth axis. In this way, the night sky for the **time at the birth of Christ** can be shown - or we can **verify HOMER** when he writes in the "ODYSSY" that "the Bear, named by others as the Wain" was a circumpolar Constellation 3000 years ago for mediteranean latitudes.

For astronomers as well as for teachers, a BAADER PLANETARIUM seen that way is everything else but a toy. Having in mind the capability to project the sky and the possibility of using our projection cupolas of 2,5 or 3,5 meters in diameter together with a BAADER PLANETARIUM, our instrument is the cheapest projecting Planetarium in the world

Claus Baader



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