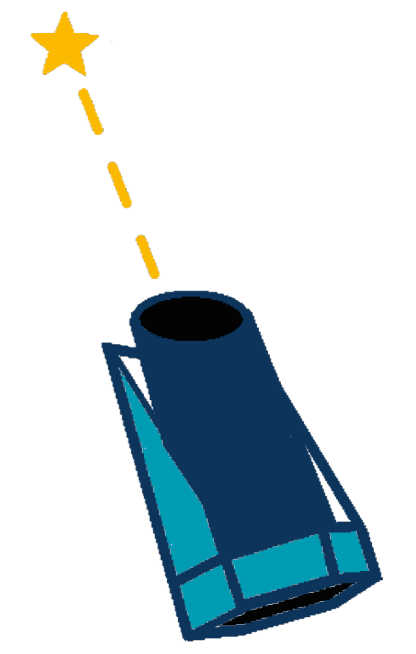


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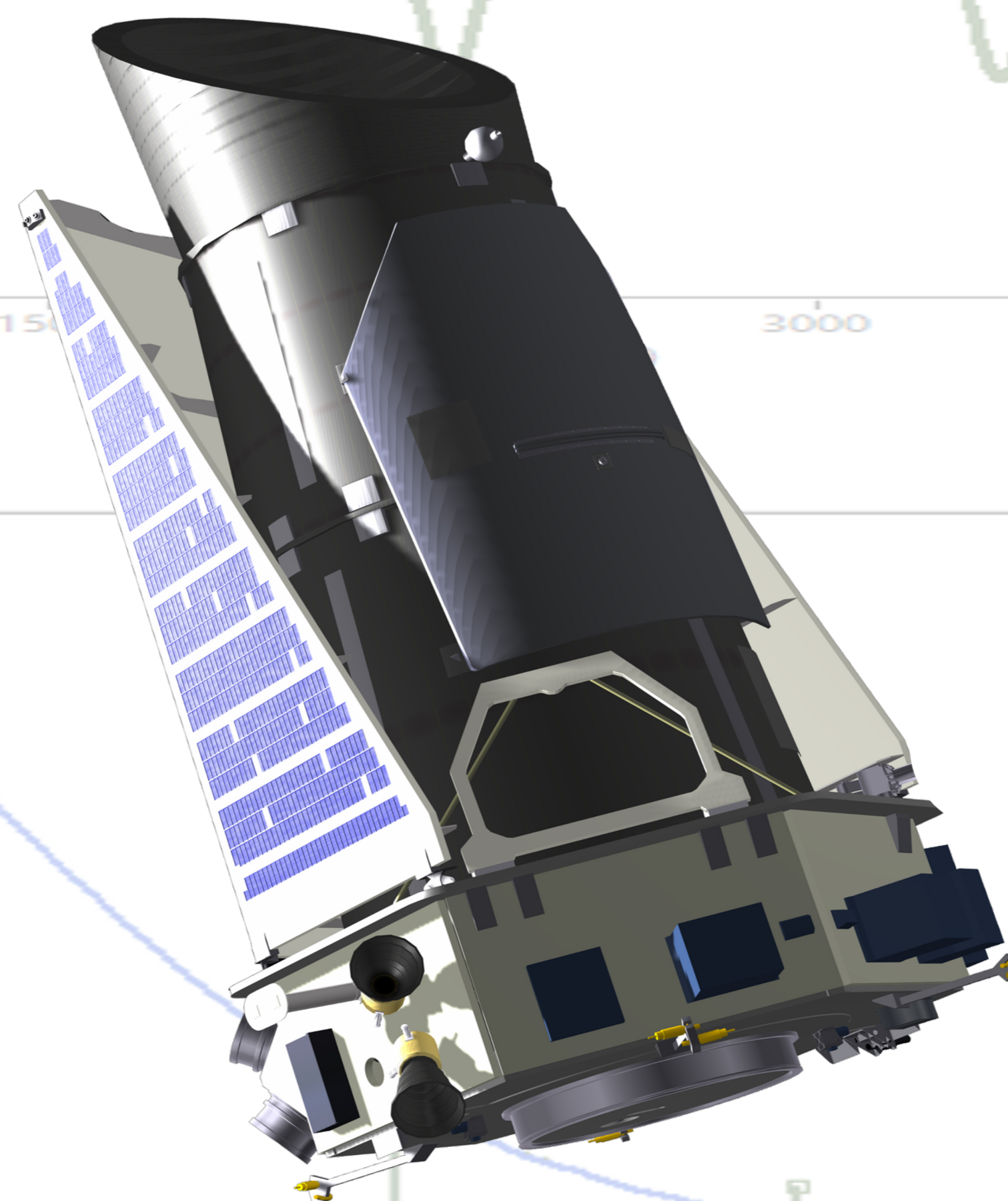
Cosmos on Stage

Measurements Inspired by the Kepler Project



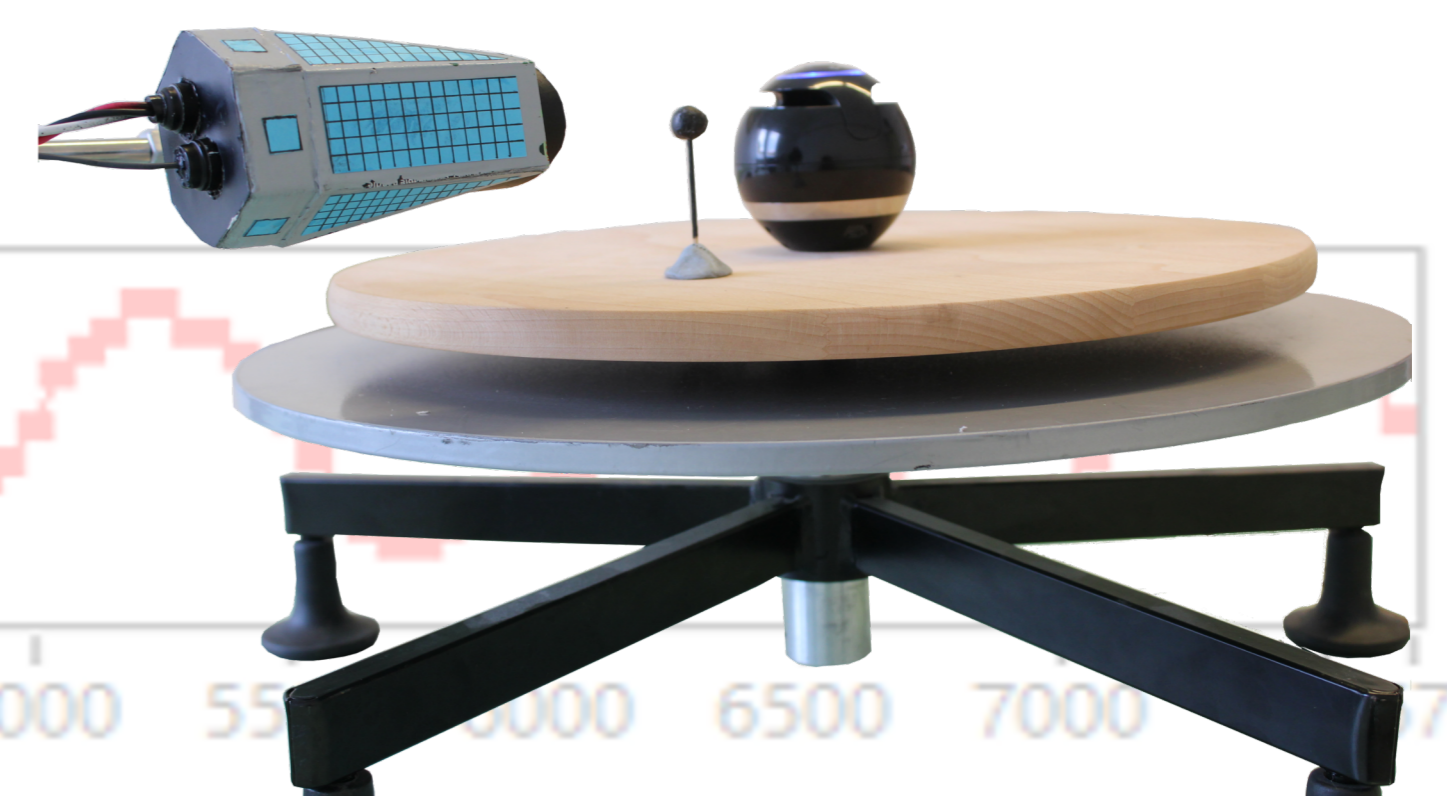
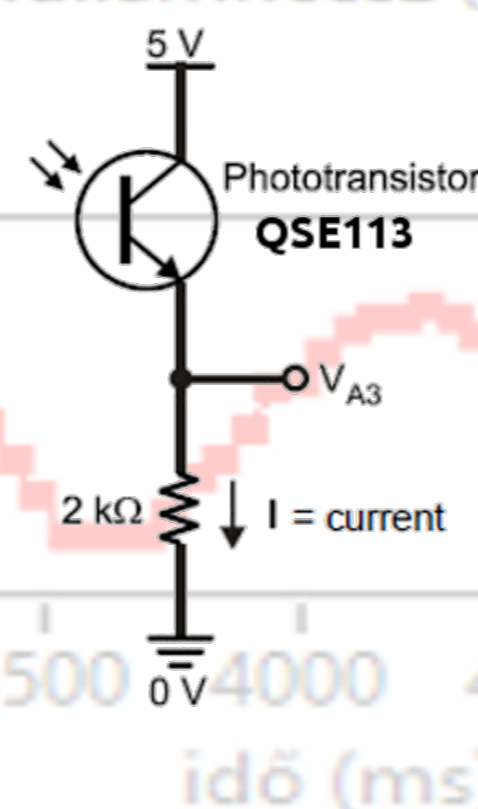
"The exploration of the Cosmos is a voyage of self-discovery." /Carl Sagan/

Children are interested in modern science. My primary purpose with this participation is to demonstrate that it is possible to study the recent results of the natural sciences in an interactive way (especially physics and astronomy) in our classes.



These years the Kepler space telescope is the most effective device to discover planets out of our solar system. It uses such methods, which are understandable for an average high school student.

I have tried to model three of these current methods to bring science closer to them, to place stars and planets onto the stage.



- * Studying exoplanet transit method, measuring orbital period
- * Measuring stellar temperature by analyzing spectrum and using Planck's law /acoustical model/
- * Measuring orbital period of exoplanet by the radial velocity method /acoustical model based on Doppler effect/