

## Space missions and planetary ephemerides

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In this talk, we will discuss the evolution of the last planetary ephemerides and their implications on the development and preparation of space missions. We will show how the planetary ephemerides are an important part of the space missions preparation and requirements. We will give examples as the Mars missions, the Mercury Bepi-Colombo mission, or the GAIA mission. In the other hand, we will show how the space missions data are a key point not only for the construction of new planetary ephemeris, but also for a better understanding of the solar system in its all. Thanks to space mission tracking data, it became then possible to have, for example, a good estimation of the sun oblateness, to compute accurately asteroid masses and even to test general relativity.