

PPS007-11

Room: 301A

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## Exploration of Exoplanets

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We will discuss missions for observing exoplanets and exploring Solar System objects. For the latter missions, we will look at not only the science of those objects but also the science that should be helpful for the exoplanet research.

Over the last 15 years, more than 400 exoplanets have been detected. In addition, photos of some massive planets, which are as massive as Jupiter, have been taken. Obviously, the next step is to detect exoplanets of which mass is similar to the Earth's mass. And the step after the next would be to find out exoplanets that are similar to Earth itself. These goals are rather simple and many people would come up with naturally.

In order to achieve these goals, we will discuss scientific meanings of them, and attempt to make scientific goals clear.

In our discussion, we would like to consider two types of missions; (1) exoplanets are directly targeted and observed, and (2) objects in the Solar System are explored in view of exoplanet research.