Satellite systems and asteroidal satellites

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It is not known whether asteroids have satellites or not, except 243 Ida, a small satellite of which has been discovered by Galileo space probe. We propose a survey for the asteroidal satellites by stellar coronagraph on SUBARU telescope.

Discoveries of extra solar planets and dust disks around main sequence stars are going to lead us to comparative studies of the planetary systems in the universe. Now, it is also interesting to study the origin and evolution of the satellite systems in the solar system and compare them with the planetary systems. Basic data such as sizes and orbital properties, as well as other physical and chemical data, are available on the satellite systems of the major planets. On the other hand, it is not known, however, whether asteroids have satellites or not, except 243 Ida, a small satellite of which has been discovered by Galileo space probe. We propose a survey for the asteroidal satellites by stellar coronagraph on SUBARU telescope.