Spectroscopic, spectrophotometric, and periodic observations for low delta-v near-Earth asteroids


Hayabusa (MUSES-C) conducted sample return mission from the near-Earth asteroid 25143 Itokawa (1998 SF₃₆), and Hayabusa2 is under exploration to the near-Earth asteroid 162173 Ryugu (1999 JU₃). It is indispensable to select candidate small bodies that will be the exploration and to know their physical characteristics in advance.


Currently, Hayabusa2 has already been launched, and the asteroid to be explored are determined to be the C-complex asteroid 162173 Ryugu.

For this reason, the observation for searching for a candidate for exploration candidate is now finished. Therefore, we report on the physical properties of observed asteroids (5 Spectroscopic, 26 spectrophotometric, and 32 periodic observations) for the information of future exploration.

Keywords: asteroids, observations