

Tiny rover system for asteroid exploration

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Abstract

The authors have been developing a tiny rover package onboard Hayabusa-2 mission. This package contains multiple rovers making a surface exploration over the microgravity environment of the target body after they have been ejected from the mother spacecraft.

This package is installable to any missions which stay near a small solar system bodies, including a sample return capability, since the impact to the mother spacecraft is minimized.

This poster describes the robotic and scientific capabilities of the rovers, which is now under development to be installed in Hayabusa-2 spacecraft.