
[EE] Evening Poster | P (Space and Planetary Sciences) | P-PS Planetary Sciences

[P-PS03] Small Bodies in the Solar System: Current Understanding and Future Prospects

convener: Masateru Ishiguro (Department of Physics and Astronomy, Seoul National University), Taishi Nakamoto (Tokyo Institute of Technology), Masahiko Arakawa (神戸大学大学院理学研究科, 共同), Masanao Abe (Institute of Space and Astronautical Science, Japan Aerospace Exploration Agency)

Wed. May 23, 2018 5:15 PM - 6:30 PM Poster Hall (International Exhibition Hall7, Makuhari Messe)

In this session, we welcome presentations regarding small bodies in the Solar System from a variety of approaches (i.e., laboratory experiments, observations, explorations, theoretical modeling, and sample analyses). Especially this year, the Hayabusa2 spacecraft is about to rendezvous with its mission target (Ryugu, C-type asteroid), and ready to make remote-sensing observations for acquiring detailed information of the primordial body. Taking account of the situation, we aim to organize our current understanding of these primordial bodies and further discussing future prospects in this research field.

[PPS03-P06] Visualization of FOVs frustum in HARMONICS for rendezvous Hayabusa2

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We will demonstrate a visualization tool “HARMONICS (HAYabusa Remote MONItoring and Commanding System)” based on SPICE toolkit. This software is used for planning observations and scientific analysis in Hayabusa/Hayabusa2 missions. This software visualizes positions/attitudes of spacecraft and FOVs (Field Of View) of scientific instruments. This HARMONICS can deviate positions and attitudes of spacecraft from imported SPICE kernels in order to consider observation scenarios. This point is a difference from other SPICE-based tools such as Cosmographia developed by JPL. Newly developed function from the previous version in 2017 is display of FOV-frustum. Anyone can download the software after this spring on arcspace.jp.