

Small spacecraft mission in ISAS/JAXA

Masato Nakamura[1]; Hirobumi Saitou[2]; kazuhisa mitsuda[3]; Yoshifumi Inatani[4]

[1] ISAS/JAXA; [2] Department of Space Information and Energy,ISAS,JAXA; [3] ISAS,JAXA; [4] ISAS, JAXA

<http://www.isas.ac.jp/j/index.shtml>

Small spacecraft mission in ISAS/JAXA is discussed.

It is a flow natural to develop a large-sized satellite in development of space science. But there is a problem also in a large-sized plan.

- o long development cycle
 - It is hard to form a timely plan.
 - It does not agree with the life cycle of an engineer and a researcher.
- o huge cost
 - The risk of failure is large.
 - It becomes a conservative plan.
 - An aggressive plan is hard to be adopted.
- o There is a science which is not suitable with lage spacecraft.
- o Decline of technology
 - There is no step of the suitable technical development to the large-sized plan from a laboratory.
 - No good enginners are grown up
 - Entry from a new field is difficult.

To overcome this difficulty we carried out the feasibility study of small spacecraft mission at ISAS.