Ref: 15/JAXA/ISAS/No.1117001

November /8, 2015

Re: SPICA MDR results

Dear Colleagues,

This letter is to let you know that the re-designed mission definition of SPICA, equipped with a large and cooled telescope to enable a new era of space IR astronomy to open in the 2020's, has

passed its Mission Definition Review (MDR) at ISAS, JAXA. Full priority has been given to

realism during the re-designing study and the review results indicate that a 2.5m telescope,

although smaller than the one that had been day-dreamed, is indeed capable of expanding the

horizon of space IR astronomy. I would like to thank the relevant international community helping us to arrive at this point, because a joint study with European colleagues was crucial in

identifying the realistic limit of the telescope size, and because the recommendation issued by the

International Review Committee did help substantially in re-focusing the science objectives of the

mission.

The goal of SPICA is to reveal the process that enriched the Universe with metal and dust.

Spectral features in mid/far IR, namely, the rich dust bands and gas emission lines that can be

accessed by SPICA are the most powerful tools for the purpose. SPICA will unveil the detailed

processes in galaxy formation and evolution up to z=3 or even beyond, and also reveal the

evolutionary process of protoplanetary systems that is the key to understand the formation of the

planets as we see today. Synergy with other large facilities such as ALMA and ATHENA is nicely

foreseen.

I, as the Director General of ISAS, do care about timeliness and solid materialization of space

science missions. I see that the new shape of SPICA does meet these conditions. On the other

hand, I am aware that the international community needs to clear yet more hurdles before SPICA

is materialized. Here let me declare that ISAS is ready to support international efforts along the

direction of making SPICA happen. Indeed ISAS has decided to form an International Science

Advisory Board which will help to keep SPICA in its best shape. Its function as of now is to

oversee the activities at ISAS but future evolution is naturally expected as SPICA moves ahead.

Sincerely,

Saku Tsuneta

Director General, ISAS/ JAXA

Salu Janeta