

Current status of the antenna developments, the data processing, scientific target for JUICE/SWI JAPAN.

*YASUKO KASAI¹, [Group] JUICE SWI Japanese Team

1. National Institute of Information and Communications Technology (NICT)

The Submillimetre-Wave Instrument (SWI) is one of the 10 scientific payloads on the JUpiter ICy moon Explorer (JUICE). The main scientific objectives of SWI is to investigate the structure, compositions and dynamics of the middle atmosphere of Jupiter and exosphere of its moons, as well as thermophysical properties of the satellite surfaces. SWI observations will provide pioneering direct measurements of atmospheric compositions in Jupiter system. SWI will perform limb and nadir observations in the frequency region 530-600 and 1075-1275 GHz. Japanese contribution is the development of main- and sub- reflectors, actuators for the instruments, feasibility studies, data processing, and scientific contributions. We present Current status of the antenna developments, the data processing, scientific target for JUICE/SWI JAPAN.

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