

R009-12

Zoom meeting D : 11/1 PM1 (13:45-15:30)

13:45~14:00

木星氷衛星探査計画 JUICE : JUICE-Japan の目指すサイエンス

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Jupiter Icy Moons Explorer JUICE: Science goals of JUICE-Japan team

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Jupiter ICy moons Explorer (JUICE) is the ESA's first L-class mission to Jupiter and its satellite system. The launch is scheduled in 2022 and the spacecraft will arrival at Jupiter in 2029. The spacecraft will spend at least three years making detailed observations of Jupiter and three of its largest moons, Ganymede, Callisto and Europa. Among the eleven instruments of JUICE spacecraft, parts of four instruments (SWI, GALA, PEP, and RPWI) are provided from Japan. The JUICE mission will provide an opportunity not only for the Japanese science communities of space physics and planetary geophysics, but also those of cosmo/geochemistry, planetary formation, and astrobiology. To maximize potential value of the JUICE mission, interdisciplinary collaborations and cooperation are required for understanding the origin, evolution, and habitability of the Jovian system. In the present talk, we will discuss science goals of the JUICE-Japan team, especially focusing on interdisciplinary sciences. We discuss key observations by the JUICE spacecraft for understanding the formation mechanism of the Jovian system and potential biomarkers on Europa.