

PCG040-P18

Room: Convention Hall

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## Observation plan of the EXCEED mission

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The Sprint-A/EXCEED mission is an earth-orbiting Extreme Ultraviolet (EUV) spectroscopic mission and the first mission of the ISAS/JAXA Small scientific satellite series. The EUV spectroscopy is a favorable to observe tenuous gases and plasmas around the planets in the solar system (Mercury, Venus, Mars, Jupiter, and Saturn). One of the main observation targets is the Jovian magnetosphere which has a rotation dominant magnetosphere due to its strong magnetic field, fast rotation, and an internal plasma source. Observation of the Jovian magnetosphere with the EUV spectrometer enables to measure the spatial distribution of plasma density, temperature, and composition in the inner magnetosphere (Io plasma torus) and investigate plasma transport processes in rotating magnetized plasmas.