## JUICE 衛星搭載用非熱的中性粒子観測器 (PEP/JNA) の開発

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## Development of low-energy energetic neutral atom analyser to be onboard JUICE spacecraft

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We are developping a low-energy (10eV-3keV) energetic neutral atom analyser (PEP/JNA) which is to be onboard JUICE spacecraft.

Ganymede has its own intrinsic magnetic moment. There is considered to be a mini-magnetosphere around Ganymede because of interactions between plasma in Jovian magnetosphere and Ganmede's magnetic field. However, its characteristics will be different from terrstrical one, since Alfven mach number of upstream plasma flow (corotational plasma flow around Jupiter) is small. JNA (Jovian Neutral Analyzer) will reveal characteristics of Ganymede's magnetosphere in terms of measurement of scattered/sputtered particles generated by precipitation of plasma particles onto Ganymede's surface. Measurement of these particles will provide spatial distribution of plasmas in remote sense, since electric/magnetic field do not affect trajectories of neutral particles. JNA is a part of PEP (Particle Environment Package) led by Swedish Institute of Space Physics. We will discuss current status of PEP/JNA.