

## **OBSERVATION OF FLOW VARIATION DURING DETACHMENT BY USING TWO MACH PROBES**

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Plasma detachment is one of the key issue in magnetic fusion. During the detachment, plasma becomes unstable due to various reason such as ionization and recombination. Two Mach probes (one for parallel flow and the other azimuthal flow) have been developed for the measurement of flow variation due to ionization and recombination in NAGDIS—II and divertor simulator. By changing the magnetic field and pressure, we intenationally generate the detached plasma with various atomic processes. Electron density, temperature and Mach numbers are measured by a two Mach-probe system and a triple probe system, simultaneously relation between the variation of flow pattern and detachment will be addressed.