## **CAMT Seminar**

## "Particle-in-Cell simulations of capacitive radio-frequency discharges"

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Date: April 19, 2017 (Wed) 14:00-15:00 Location: Main Conference Room (1st floor), Bldg. A12 Center for Atomic and Molecular Technologies (CAMT)

(A12 棟 1 階会議室)

## **Abstract:**

Particle-based simulations have been aiding for some time the understanding of fundamental phenomena in plasma physics. The rapid development of computational resources allows execution of precise simulations at the level of elementary processes. Details of particle kinetics in low-temperature plasmas can be explored to great details in such studies, some of which (gas breakdown under radio-frequency field, power absorption modes, control of ion properties, and effects of surface coefficients in low-pressure capacitive plasmas) will be highlighted in the talk. As a rigorous test of the computational results comparisons will be given with the results of relevant recent experiments.

(Host: Satoshi Hamaguchi Ext: 7913)