

CAMT Seminar

“A brief insight into tokamak instabilities:
a multi-scale problem”

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Date: November 14th, 2016 (Mon) 11:00-12:00

Location: Main Conference Room (1st floor), Bldg. A12

Center for Atomic and Molecular Technologies (CAMT)

(A12 棟 1 階会議室)

Abstract

A tokamak plasma is a complex system, where instabilities can develop. Understanding, predicting and controlling those instabilities is essential in present and future fusion devices on the route towards the steady-state production of energy. We will explain in this presentation the origin of instabilities in tokamaks based on simple examples of daily life, focusing the approach on the comparison between a tokamak plasma and other physical systems. Important concepts in fusion research such as turbulent transport, energetic particles and magnetohydrodynamic modes will be briefly introduced in a very intuitive way with no mathematical description.

(Host: Satoshi Hamaguchi Ext:7913)