Salon de K 2024　-12月-

（兼：第３回　加工・材料工学セミナー）

日時: 12/13 (金), 2024　15:00～
場所: 公立小松大学　粟津キャンパス　103 室
講演会形式：ハイブリッド（Teams にて中継予定）

Theoretical Models and Simulations for Electrochemical Studies

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Electrochemistry studies are essential in a wide range of fields, including the development of energy storage devices, biosensors, nanoparticles, and the evaluation of electrode performance. In all these areas, the core system is represented by the charged surface/electrolyte solution interface.

My doctoral project focuses on the formulation of advanced theoretical models to study this system and on the development of computational tools to simulate electrochemical experiments.

In this talk, two classical models used to describe the charged surface/electrolyte solution interaction will be presented, highlighting their limitations when applied to realistic experimental conditions. Subsequently, we will discuss how these models can be suitably modified to represent more complex systems and demonstrate how they can be utilized to simulate various experiments.

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