

第33回早稲田大学 数学・応用数理談話会

日時：2025年11月27日(木)

16:30-17:30 講演（質疑応答を含む）

16:00-16:30 tea time

場所：早稲田大学西早稲田キャンパス
63号館2階03-04会議室



アクセス：<https://www.waseda.jp/top/access/nishiwaseda-campus>
早稲田数学応数談話会 URL: <http://www.math.sci.waseda.ac.jp/math/>

Title: Continuity estimates for solutions to nonlocal equations

Abstract: Regularity theory is a core topic in the analysis of differential and integro-differential equations. This talk will focus on regularity estimates for solutions to a class of integro-differential equations with highly singular and non-smooth kernels. First, I will present results for operators with a fixed order of differentiability between zero and two. Then, I will show how to establish boundedness and regularity estimates for weak solutions to linear nonlocal equations with integro-differential operators that have almost no order of differentiability. Finally, I will discuss two open problems in this area that are accessible to a broad mathematical audience. This work is based on joint results with M. Weider, as well as recent research with S. Jarohs and T. Weth.

Professor Moritz Kassmann
(Bielefeld University)



主催：早稲田大学理工学術院基幹理工学部数学科・応用数理学科
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