

早稲田大学整数論セミナーの予定 (ミニワークショップ)

日時：2025 年 11 月 26 日（水） 14:30～15:30

場所：〒169-8555 東京都新宿区大久保 3-4-1
早稲田大学西早稲田キャンパス
61 号館 4 階 405 室 (61 - 405)
対面と Zoom ミーティングによるハイブリッド開催

講演者：Claudia Alfes 氏（Bielefeld University）

タイトル：On harmonic weak Maass forms associated to even integer weight newforms

アブストラクト：In this talk we review results on several types of harmonic weak Maass forms that are related to integral even weight newforms. Starting with an integral weight newform, we will review different constructions of integral weight harmonic weak Maass forms via (generalized) Weierstrass zeta functions that map to the newform under the ξ -operator. A second construction via theta liftings gives a half-integral weight harmonic weak Maass form whose coefficients are given by periods of certain meromorphic modular forms with algebraic coefficients and periods of the integer even weight newform. This is joint work with Jens Funke, Michael Mertens, and Eugenia Rosu resp. Jan Bruinier and Markus Schwagenscheidt.