早稲田大学整数論セミナーの予定
(2014年度 第18回)

日時：2014 年 10 月 24 日（金）16:30〜18:00

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（旧・大久保キャンパス）
　　　61 号館 4 階 413 室 (61-413)

講演者：Martin Westerholt-Raum (ETH Zurich - MPI)

タイトル：Hurwitz class number like relations for partition counts

アブストラクト：We start the talk by recalling Hurwitz class number relations, which are classical, and give detailed information about the class numbers of imaginary quadratic fields. The goal of the talk is to illustrate similar relations for certain counting functions of partitions. We explain how such partition counts occur as coefficients of so-called weakly holomorphic modular forms or more general objects. Then we turn to a more detailed study of their analytic properties. We introduce some basic lines of thought in this area. At the end, aforementioned relations of partition counts will result from a neat three step procedure.