早稲田大学整数論セミナーの予定
(2024年度 第7回)

日時： 2024 年 7 月 19 日（金） 17:00〜18:30

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
59 号館 4 階 420 室 (59 - 420)
対面と Zoom ミーティングによるハイブリッド開催

講演者： 星 裕一郎 氏 （京都大学数理解析研究所）

タイトル： On the Geometricity of Adelic Galois Sections of Hyperbolic Curves

アブストラクト： A Galois section of a hyperbolic curve over a field is defined to be a continuous section of the natural continuous surjective outer homomorphism from the etale fundamental group of the given curve to the absolute Galois group of the basefield. Grothendieck's section conjecture states that, for a given hyperbolic curve over a number field, an arbitrary Galois section of the curve is geometric, i.e., the image of an arbitrary Galois section of the curve is contained in a decomposition subgroup associated to a closed point of the curve. After a brief state of the background, this talk will report on recent and future developments concerning this conjecture. In particular, I will explain a proof of the geometricity of an adelic Galois section of a "sufficiently small" hyperbolic curve over a number field. Moreover, the final portion will report on some expected developments concerning this research via inter-universal Teichmuller theory. This talk is based on a joint work with Shinichi Mochizuki.