

九大代数学セミナー

日時 2024 年 4 月 26 日 (金) 16:00-17:00

場所 九州大学伊都キャンパス ウェスト 1 号館 5 階 C-513 中講義室,
および Zoom ミーティングによるオンライン開催

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講演者 Kang Zuo 氏 (Wuhan University)

題目 **p -adic Simpson correspondence, motivic Higgs bundles and Katz convolution.**

概要 I shall explain our recent work, jointly with Jinbang Yang, on constructing rank-2 motivic local systems on 4-punctures projective line over complex numbers. The proof relies on non-abelian p -adic Hodge theory, p -adic Simpson correspondence for periodic Higgs bundles, Deligne's p to ℓ companions, Yu's work on numerical characteristic p Simpson correspondence, Drinfeld's work on Langlands correspondence for rank-2 ℓ -adic local systems with cusps and Grothendieck-Messing-Kato deformation theorem for log abelian schemes. It is remarkable that recently Lam-Litt provided a totally different approach to the above results using Katz middle convolution.

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