

九大代数学セミナー

日時 2024 年 7 月 12 日 (金) 16:00-17:00

場所 九州大学伊都キャンパス ウエスト 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 Didier Lesesvre 氏 (Lille 大学)

題目 **Poles of Rankin-Selberg L -functions**

概要 The Rankin-Selberg L -function associated with two automorphic cusp forms is known to have a pole at $s = 1$ if and only if the two forms are essentially the same. This result is central in applications, and has been first proved using the method of integral representation of L -functions. However, such integral representations naturally exist only for generic representations, leaving aside important cases. This motivated Langlands' approach that goes "beyond endoscopy", replacing the use of integral representations by the one of trace formulas. I will present such an approach in the case of automorphic forms of $GL(2)$ of different types, underlining the uniformity of the proof between the different types. This is based on results of Ganguly and Mawia, and a joint project in progress aiming at going beyond.

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