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Tempered representations with unipotent parahoric restriction: a noncommutative geometry viewpoint

Thursday, February 27, 2025 3:00 PM (1 hour)

The category of smooth representations of a p -adic group G admits a decomposition into Bernstein blocks. With Paul Baum, Roger Plymen and Maarten Solleveld, we have formulated a conjecture which relates these blocks to (possibly twisted) extended quotients of complex algebraic varieties by finite groups.

In this talk, I will first introduce p -adic groups and some of their representations. Next, I will describe the conjecture in the case of tempered representations with unipotent parahoric restriction, focusing on its links with the generalized Springer correspondence for complex disconnected groups and its K-theoretical aspects. As an application, I will show how it can be used to describe the theta correspondence.

Presenter: Prof. AUBERT, Anne-Marie (IMJ-PRG CNRS)