

Tempered representations and K-theory



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Topological K-theory of reductive p -adic groups

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The goal of this talk is a simple, concrete description of the topological K-theory of the reduced C^* -algebra of a reductive p -adic group G , in terms coming from representation theory.

We will discuss the structure of several group algebras of G , and how the K-theory can be computed from the space of irreducible tempered G -representations. The final description is closely related to conjectures by Aubert-Baum-Plymen-Solleveld.

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