

A Fourier transform for unipotent representations of p -adic groups

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In the representation theory of finite reductive groups, an essential role is played by Lusztig's nonabelian Fourier transform, an involution on the space of unipotent characters of the group. For reductive p -adic groups, the unipotent local Langlands correspondence gives a natural parametrization of irreducible smooth representations with unipotent cuspidal support. However, many questions about the characters of these representations are still open. In joint work with Anne-Marie Aubert and Dan Ciubotaru, we propose a potential lift of Lusztig's Fourier transform to the setting of split p -adic groups and their pure inner twists. Our work generalizes a construction of Mœglin–Waldspurger for orthogonal groups. In my talk, I will introduce some of these ideas via examples.

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