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Characters of depth-zero representations and motives

Most characters of representations of p-adic groups elude explicit computation. In this talk, we will discuss an approach to this problem that is based on motivic integration, which allows us to attach geometric objects to all "natural" p-adic integrals. As a result, we will be able to show that the values of characters of depth-zero supercuspidal representations of most classical groups can be obtained by "counting points" of some geometric objects over the residue field.