1017-22-188 C. Cunningham, Department of Mathematics, University of Calgary, Calgary, Alberta Canada, and J. Gordon^{*}, Department of Mathematics, University of Toronto, Toronto, Ontario M5S 2E4, Canada. A "motivic" calculation in $SL_2(\mathbb{Q}_p)$.

We prove a relation between depth-zero characters and Fourier transforms of certain elliptic orbital integrals in the p-adic group SL_2 , using motivic integration. (Received February 20, 2006)