Beyond Endoscopy: Local aspects of Venkatesh’s thesis.

The thesis of Akshay Venkatesh obtains a “Beyond Endoscopy” proof of stable functorial transfer from tori to SL(2), by means of the Kuznetsov formula. In this talk, I will show that there is a local statement that underlies this work; namely, there is a local transfer operator taking orbital measures for the Kuznetsov formula to test measures on the torus. The global comparison of trace formulas is then obtained as a Poisson summation formula for this transfer operator. (Received January 18, 2019)