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*Transfer of transfer*

This is joint work with T.C. Hales. Langlands and Shelstad made two conjectures about the relations of kappa-orbital integrals on a reductive group  $G$  and stable orbital integrals on the endoscopic group  $H$ . One was the famous Fundamental Lemma. The other one is a "smooth transfer" conjecture, which asserts a relation similar to the Fundamental Lemma but for all smooth test functions on  $G$ . It follows from the work of Langlands-Shalstad, Hales and Waldspurger that the Fundamental Lemma implies smooth transfer conjecture in characteristic zero. We use this fact and the theory of motivic integration to show that the smooth transfer conjecture holds in large positive characteristic.