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Paul Mezo*, mezo@math.carleton.ca. *Twisted endoscopic character identities for real reductive groups*. Preliminary report.

The theory of ordinary endoscopy attaches endoscopic groups to a connected reductive group. The endoscopic groups are related to the original reductive group through identities involving orbital integrals and also of characters. The theory has been generalized to include twisting by a group automorphism or central character. Shelstad has proven identities for real groups in the ordinary case, and Renard has proven some twisted identities of orbital integrals for real groups. We will describe the conjectural twisted character identities for real groups. (Received August 11, 2008)