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Twisted endoscopic character identities

Let G be a connected real reductive group. The theory of endoscopy attaches to G a set of groups whose harmonic analysis is related to G. The precise relationship takes the form of identities involving orbital integrals, or identities involving representation characters. It has been proven by Shelstad. One may generalize this theory by twisting the endoscopic data with respect to an automorphism and quasicharacter of G. The resulting identities of twisted orbital integrals have been established in some cases by Renard. We shall present the conjectured twisted character identities.