Waldspurger’s formula gives an identity between the norm of a torus period and an L-function of the twist of an automorphic representation on GL(2). For any two Hecke characters of a fixed quadratic extension, one can consider the two torus periods coming from integrating one character against the automorphic induction of the other. Because the corresponding L-functions agree, (the norms of) these periods—which occur on different quaternion algebras—are closely related. In this talk, we will discuss a direct proof of an explicit identity between the torus periods themselves and mention applications to p-adic automorphic forms. (Received February 04, 2019)