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Terrence Richard Blackman* (terrence.blackman@du.edu), Katherine A. Ruffatto Hall, 335,
1999 E. Evans Ave., Denver, CO 80208. *Spectral correspondences on Quaternion Groups.*

We prove that in most cases the Jacquet-Langlands correspondence between newforms for Hecke congruence groups and newforms for quaternion orders is a bijection. Our proof covers almost all cases where the Hecke congruence group is of cocompact type, i.e. when a bijection is possible. The proof uses the Selberg trace formula for Hecke operators. (Received September 17, 2013)