1017-11-168   **Kimball Martin*** (`kimball@math.columbia.edu`), Columbia University, Department of Mathematics, MC 4425, New York, NY 10027. *A relative trace formula and period integrals.*

Let D be a quaternion algebra. Then GL(2,D) and GL(4) are inner forms and one expects a Jacquet-Langlands correspondence between representations of GL(2,D) and GL(4). We investigate, in certain cases, the transfer of representations from GL(2,D) to GL(4) along with nonvanishing conditions on certain period integrals using a relative trace formula. (Received February 20, 2006)