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Global Jacquet–Langlands and automorphic representations

We first explain the local Jacquet–Langlands transfer for all unitary representations. Using this local correspondence one may define a global Jacquet–Langlands correspondence and prove it thanks to the work of Arthur and Clozel on the trace formula for simple algebras. As a consequence one may transfer the results of Moeglin–Waldspurger and Jacquet–Shalika to inner forms of the linear group. In particular we obtain the classification of automorphic representations of the adele group of the group of invertible elements of a central simple algebra of finite dimension over a global field. All fields here are supposed to be of characteristic zero.