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Local global compatibility and monodromy.

The global Langlands correspondence for GL_n associates to a cuspidal automorphic representation of GL_n satisfying certain technical conditions a number theoretic object, namely a Galois representation. This is known in many cases to be compatible with the local Langlands correspondence due to Harris-Taylor and Henniart. This compatibility generalizes the classical compatibility between local and global class field theory. In the case of GL_n , I will explain how to prove the compatibility for monodromy operators, when the automorphic representation is regular-algebraic and conjugate-self dual. (Received September 14, 2012)