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Towards new Euler systems for automorphic Galois representations

The construction of Euler systems for Galois representations associated to automorphic forms often relies on the existence of Rankin-Selberg integrals which calculate the corresponding L-function. I will discuss a new Rankin-Selberg integral, which represents a twist of the degree 5 L-function of cusp forms on GSp_4, and its application to the study of the arithmetic of the standard Galois representation associated to cusp forms on GSp_4. This is joint work with Armando Gutierrez.