

Explicit reciprocity laws via the Eisenstein-Iwasawa class

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In our *joint work with Loeffler and Zerbes* an explicit reciprocity law for Rankin-convolutions of modular forms was proved. This involved a new approach giving a direct relation to the p -adic L -function. The main ingredient is that one knows explicitly the étale and syntomic realization of Beilinson’s Eisenstein symbol and that these realizations can be p -adically interpolated. We will explain this new approach in our talk and discuss possible applications in other contexts for example a new proof of Kato’s explicit reciprocity law.

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