

Kato's Euler system, Eigencurve and p -adic L function of modular forms

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Abstract : We give a construction of a family of Kato's Euler systems over the eigencurve and under some assumptions, we construct a family of distributions on \mathbb{Z}_p over the eigencurve using this family of Kato's Euler system, which gives us the two variables p -adic L functions.