(HIGHER) P-ADIC FAMILIES OF HILBERT CUSPFORMS AND APPLICATIONS

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I will talk about joint work with D. Loeffler and S. Zerbes, in which, using higher Hida theory, we construct a p-adic measure for the Asai-motive attached to a cuspidal automorphic representation of Res_{F\Q}GL_2, where F is a real quadratic field in which p splits. I will explain the link between (non-critical values of) this p-adic L-function and the Euler system of Asai-Flach classes and discuss, if time permits, consequences towards the Bloch Kato conjecture.