

MODULAR FORMS AND p -ADIC L-FUNCTIONS

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This lecture, geared towards non-experts, concerns the conjectural connections between p -adic L-functions and arithmetic properties of modular forms. Interpolating special L-values, p -adic L-functions are deeply related to p -adic families of modular forms, and we will explore some recent results on p -adic versions of the Birch and Swinnerton-Dyer conjecture.