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On the Iwasawa invariants of BDP-Selmer groups and BDP p-adic L-functions

Let f_1 and f_2 be weight two Hecke cusp forms with isomorphic residual Galois representations. Let K be an imaginary quadratic field and assume that the generalized Heegner hypothesis holds for the pairs (f_1, K) and (f_2, K). Let K_∞/K be the anticyclotomic $\mathbb{Z}_p$-extension. We will analyze the relation between the Iwasawa invariants of the BDP-Selmer groups over K_∞ and the BDP p-adic L-fucntions for f_1 and f_2.

This is joint work with Antonio Lei and Jiacheng Xia.