

Stickelberger elements and automorphic L-Invariants

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Stickelberger elements attached to (Hilbert) modular forms can be seen as generalizations of the corresponding p -adic L -functions. In particular, one works with several primes at the same time. In this talk, we attach p -adic periods to certain automorphic representations of inner twists of $\mathrm{PLG}(2)$ and study their connection to derivatives of Stickelberger elements. This generalizes results of Bertolini-Darmon on derivatives of anticyclotomic p -adic L -functions and results of Spieß in the cyclotomic setting. The talk is based on joint work with Felix Bergunde.