

Critical values of Hecke L -functions

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A conjecture of Deligne from 1977 relates the critical values of a motivic L -function with certain periods of the motive. The goal of this talk is to explain Deligne's conjecture and to discuss a proof in the case of Hecke L -functions. This generalizes a result of Blasius for Hecke characters of CM-fields. For the proof we use the recently constructed Eisenstein-Kronecker classes of Kings-Sprang and combine them with ideas from Blasius' proof.