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Implementing Zagier's inductive procedure for constructing higher K -groups of number fields

When numerically testing a certain p -adic Beilinson conjecture for number fields, one would like to be able to compare Borel regulators with p -adic regulators, as they are expected to give the same rational number on dividing by the appropriate L -value or p -adic L -value. We describe how one can implement Zagier's inductive procedure for computing higher algebraic K -groups in order to test this conjecture for K_5 and K_9 , corresponding to L -function values at 3 and 5 respectively. This is joint work with Amnon Besser, Rob de Jeu and Xavier-Francois Roblot.