

# **Kazim Büyükboduk, Chow–Heegner points and Artin formalism for triple product p-adic L-functions**

*jeudi 28 mars 2024 16:00 (1 heure)*

Abstract: I will discuss the factorization of a certain triple product p-adic L-function whose interpolation range is empty. The relevant factorization statement reflects the Artin formalism for the underlying family of motives (that decompose as the sum of 2 motives of respective degrees 2 and 6). I will explain how this can be recast in terms of the interplay between cycles that are governed by the Gross–Zagier and (conjectural) Gross–Kudla–Schoen formulae for the relevant complex L-series.

The statement of this conjecture was conceived through calculations with Jan’s interpretation of algebraic p-adic L-functions (as determinants of Selmer complexes). One unconditional evidence towards this conjecture is the verification of its algebraic counterpart that is formulated in terms of these.