

Speaker: Cristian Popescu

Title: An equivariant Tamagawa number formula for abelian t -motives and applications

Abstract: We will explain the construction of a Galois equivariant Goss-type L -function associated to an abelian t -motive and outline the formulation and proof of a Tamagawa Number Formula for its special values at positive integers. This generalizes to the t -motive and equivariant settings Taelman's celebrated class-number formula for Drinfeld modules. If time permits, we will show how the main result implies analogues of the Brumer-Stark and Coates-Sinnott Conjectures for abelian t -motives. This is based on joint work with J. Ferrara, N. Green, Z. Higgins and N. Ramachandran.