Algebra and Number Theory Seminar

Title: Tamagawa Number Conjecture and Iwasawa Theory

Speaker: Takamichi Sano (London/Osaka)

Date: Thu 14th November 2019 at 2:00PM

Location: Seminar Room SCN 1.25

Abstract: The Tamagawa number conjecture, formulated by Bloch and Kato in 1990, is the most general conjecture on arithmetic of special values of zeta functions. I will begin with explaining what this conjecture says in the simplest case: the case of the Riemann zeta function. I will then explain how the conjecture was solved in this case by using the main conjecture of classical Iwasawa theory. Lastly, I will give a general formulation of the Tamagawa number conjecture, and discuss what ingredients are necessary to solve it. In particular, I will give formulations of both an Iwasawa main conjecture and a so-called Mazur-Rubin-Sano-type conjecture for a general motive.

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