

THE EQUIVARIANT TAMAGAWA NUMBER CONJECTURE

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We will present the formulation of the ETNC for Tate motives. Using the notion of Euler systems and their scarcity (inspired by the work of Bullach—Burns—Daoud-Seo), we deduce ETNC from Strong Brumer—Stark conjecture. The ETNC has many strong corollaries, including Rubin's higher rank version of Brumer—Stark and Gross's tower of fields conjecture. This is joint with Jesse Silliman.