YONSEI MATH Colloquium

Elliptic curves and Selmer companion curves by 유명준 (U of Michigan)

Abstract: Mazur and Rubin introduced the so-called Selmer-companion curves in 2015. Let E be an elliptic curve over a number field K. Suppose there is a function that sends a quadratic character of K to the p-Selmer rank of E twisted by that character. How much information of E can be read off from the function? In this talk, we give a sketch of proof of a conjecture on p-Selmer near-companion posed by Mazur and Rubin when p=2. If time allows, we will discuss an application of the technique in the proof to the Shafarevich-Tate

31 May 2018 Science Hall 225

Talk 17:00 (Tea 16:40) For more details *math.yonsei.ac.kr*