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Florian SPRUNG. Shedding light on Selmer groups for elliptic curves at supersingular primes in \mathbb{Z}_p^2 -extensions via chromatic Selmer groups.

Monday, June 24, 2019 4:00 PM (1 hour)

Abstract: We present some results and techniques concerning Selmer groups in \mathbb{Z}_p^2 -extensions for elliptic curves at supersingular primes, focusing on the case a_p not equal to 0. In this case, a convenient pair of objects to consider is the ‘chromatic Selmer groups’ (also called ‘signed Selmer groups’ when $a_p=0$).