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p -BSD and Iwasawa theory at Eisenstein primes

I will survey on recent developments towards the p -part of the Birch and Swinnerton-Dyer conjecture for Eisenstein primes. For rational elliptic curves of rank one, this was studied in joint work with F. Castella, J. Lee and C. Skinner and it is work in progress with F. Castella and C. Skinner in the case of rank zero, refining (and re-proving) the result of Greenberg–Vatsal.