## **ONLINE SEMINAR**

## ARITHMETIC ALGEBRAIC GEOMETRY

(organizers: Grzegorz Banaszak, Piotr Krasoń)

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## Elliptic Stark conjectures

Abstract: In this lecture I will discuss several variants of a conjecture of Darmon, Lauder and myself. Given a triple (f, g, h) of modular forms of weights (2, 1, 1), the conjecture formulates a p-adic BSD-type relationship between an analytic iterated integral and a regulator given by logarithms of global points. I will focus on the particularly intriguing case where the weight one form g gives rise to a point on the eigencurve that fails to be étale over weight space.