Résumé

We will first recall the theory of Darmon cycles due to V. Rotger and M. Seveso. These are a higher weight analogue of Stark-Heegner points. Then, we will show how these Darmon cycles are related to (a p-adic family of) half-integral weight modular forms. The relation follows by the p-adic interpolation of a well known formula of Waldspurger. This involves a systematic study of p-adic L functions attached to ‘modular forms over real quadratic fields’.

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