Publ. Mat. **64** (2020), 577–619 DOI: 10.5565/PUBLMAT6422009

ON THE ELLIPTIC STARK CONJECTURE IN HIGHER WEIGHT

FRANCESCA GATTI AND XAVIER GUITART

Abstract: We study the special values of the triple product p-adic L-function constructed by Darmon and Rotger at all classical points outside the region of interpolation. We propose conjectural formulas for these values that can be seen as extending the Elliptic Stark Conjecture, and we provide theoretical evidence for them by proving some particular cases.

2010 Mathematics Subject Classification: 11G40, 14G05, 14G10.

Key words: triple product p-adic L-functions, Elliptic Stark Conjecture, modular forms.