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Cihan Karabulut* (karabulutc@wpunj.edu), William Paterson University, 300 Pompton Rd, Wayne, NJ 07470. *Eisenstein cocycles for $GL(n)$ and values of L -functions in imaginary quadratic extensions.*

Abstract: We generalize Sczech's Eisenstein cocycle for $GL(n)$ over totally real extensions of \mathbb{Q} to finite extensions of imaginary quadratic fields. By evaluating the cocycle on certain cycles, we parametrize complex values of Hecke L -functions previously considered by Colmez, giving a cohomological interpretation of his algebraicity result on special values of the L -functions. (Received March 20, 2017)