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Hui Xue* (huixue@clermson.edu), Department of Mathematical Sciences, Clemson University, Clemson, SC 29634. *The derivative of certain Eisenstein series.*

We first construct an incoherent Eisenstein series which is naturally attached an imaginary quadratic field. We then study the derivative of the Eisenstein series at the center of symmetry, and show that its Fourier coefficients are related to arithmetic degrees of certain zero cycles. (Received July 27, 2011)