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Shou-Wu Zhang* (szhang@math.columbia.edu), Department of Mathematics, Columbia University, New York, NY 10027. *Gross-Zagier's formulas with characters.*

I will present a Gross-Zagier formula for the central values or central derivatives of the Rankin-Selberg convolution of two L-series associated respectively to a PGL_2 form over a totally real field, and a finite and anticyclotomic Hecke character over a quadratic CM extension. (Received September 22, 2000)