1125-11-377Zhiwei Yun\* (zhiweiyun@gmail.com), 10 Hillhouse Ave, New Haven, CT 06511, and Wei<br/>Zhang (wzhang@math.columbia.edu), 2990 Broadway, New York, NY 10027. Intersection<br/>numbers and higher derivatives of L-functions for function fields.

We prove a higher derivative analogue of the Waldspurger formula and the Gross-Zagier formula in the function field setting. Our formula relates the self-intersection number of certain cycles on the moduli of Shtukas for GL(2) to higher derivatives of automorphic L-functions for GL(2). (Received August 30, 2016)