

1145-11-1788      **Zhiwei Yun\***, 9 Westlund Rd, Belmont, MA 02478, and **Wei Zhang**. *On the classes of Heegner-Drinfeld cycles.*

In previous joint work with Wei Zhang, we have defined Heegner-Drinfeld cycles on the moduli of rank two Shtukas, and proved that their self-intersection numbers are related to higher derivatives of automorphic L-functions. In this talk, I will describe the cycle classes of the Heegner-Drinfeld cycles and draw some arithmetic consequences. Joint work with Wei Zhang. (Received September 24, 2018)