Speaker: Matt Papanikolas'

Title: Eulerian multiple zeta values in positive characteristic

Abstract: Function field multiple zeta values (MZV's) were defined by Thakur in analogy with classical MZV's. In depth one function field MZV's are simply values of the Carlitz zeta function, much as classical MZV's in depth one are Riemann zeta values. Work of Anderson, Lara, and Thakur produce a number of relations among these quantities and also examples of Eulerian MZV's, which are rational multiples of powers of the Carlitz period. We will discuss the analogies between function field and classical multiple zeta values and present new results that characterize Eulerian MZV's in positive characteristic. Joint work with C.-Y. Chang and J. Yu.

RTG Talk: *Survey of multiple zeta values*

Abstract: *Multiple zeta values (MZV's) were originally defined by Euler, who first discovered formulas in certain cases. MZV's satisfy a huge number of relations, and the algebra of relations has been of considerable interest in recent years. In this talk we will review the history and theory of MZV's and their connections with other areas of mathematics. Furthermore we will discuss recent results of Brown and Zagier on the Q-algebra of MZV's.*