## PhiladelphiaArea NumberTheory Seminar

Byungchul Cha Muhlenberg College

## Mebius function in function elds

Abstract: Finding the preciseupper and lower bounds of M (x), which is de ned by  $M(x) = \begin{pmatrix} X \\ n \end{pmatrix} (n);$ 

is a di cult problem in analytic number theory. We look at this problem in the function eld context and describe some connections with random matrix theory and the Deligne{Katz equidistribution theorem.

Wednesday,July 15, 2015 2:40{4:00PM

Bryn Mawr College Department of Mathematics Park ScienceCenter 328 Tea and refreshmentsat 2:20PM in Park 355