

# Philadelphia Area Number Theory Seminar

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## Generalized Hecke Groups and Dirichlet Series

Abstract: Duke introduced the groups  $G(A)$  which naturally correspond to an ideal class,  $A$ , of a real quadratic field. These groups generalize the Hecke groups  $G(\lambda)$ ,  $\lambda > 2$ . In this talk, I will describe two problems, which have been solved for the Hecke groups, which I am currently working on generalizing. One problem, solved by Rosen, is the description of the elements of  $G(\lambda)$  by continued fractions. The other is Knopp and Sheingorn's construction of modular integrals on  $G(\lambda)$  with prescribed log-polynomial periods.

Wednesday, April 24, 2019  
2:40 – 4:00 PM

Bryn Mawr College  
Department of Mathematics  
Park Science Center 328

Tea and refreshments at 2:20 PM in Park 361