Philadelphia Area Number Theory Seminar

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Hyperbolic Fourier expansions of modular forms and hyperbolic Poincaré series

Abstract: In (1941), Petersson gave a uniform treatment of parabolic, hyperbolic and elliptic Poincaré series. Petersson was the first to give, the now classsical, expression for the Fourier coefficients of Poincaré series as a special value of a Dirichlet series involving Kloosterman sums and Bessel functions. In the classical case, both the Fourier series and the Poincaré series are relative to a parabolic element. In this talk, we discuss hyperbolic Fourier expansions and hyperbolic Poincaré series in $\mathrm{SL}_2(\mathbb{Z})$.

Wednesday, February 11, 2015
2:40–4:00PM

Bryn Mawr College
Department of Mathematics
Park Science Center **328**

Tea and refreshments at 2:20PM in Park 355