Philadelphia Area Number Theory Seminar

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Fourier Coefficients of Vector-Valued Poincare Series

Abstract: Poincare series are an invaluable tool in the construction of automorphic forms, and their coefficients have been well studied. In the classical case, one can use Lipschitz summation to get an exact formula that involves Kloosterman sums and Bessel functions. For vector-valued Poincare series, if the associated representation is "normal", one also obtains a nice exact formula that involves Bessel functions and "generalized Kloosterman sums". However, for logarithmic representations the situation gets quite a bit messier. In this talk I'll derive an exact formula for the Fourier coefficients when the associated logarithmic representation is just a single Jordan block.

Wednesday, November 5, 2014
2:40–4:00PM

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

Tea and refreshments at 2:20PM in Park 355