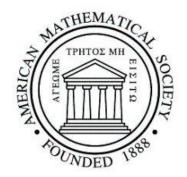
Purdue University Mathematics Department Graduate Research Day

November 19, 2016 Purdue Graduate Student Center, conference room 105 504 Northwestern Avenue, inside the Northwestern parking garage





Morning Session

10:15am Nate Veldt, Detecting local graph clusters with the min-cut max-flow theorem 10:45am Avi Steiner, Basics of algebraic analysis 11:15am Yingwei Wang, Two-level spectral methods for nonlinear elliptic equations with multiple solutions

Breakfast 9:45-10:15am Coffee and Mary Lou Donuts Lou Donuts 12:00pm at

Puccini's Smiling Teeth

Afternoon Session

1:45pm Jacob Shapiro, Semiclassical resolvent bounds in dimension two 2:15pm Yiqi Gu, A spectral solver for elliptic PDEs in irregular domains 2:45pm Mark Pengitore, Precise residual finiteness of lattices in nilpotent Lie groups