

PA_{lmetto} N_{umber} T_{heory} S_{eries}

SCHEDULE OF ACTIVITIES

(All talks are in LeConte 412. Coffee and refreshments are in the Wyman Williams Room, next to 412.)

SATURDAY, DECEMBER 6, 2014

9:00 COFFEE AND OTHER REFRESHMENTS

9:30 **Jesse Kass** (University of South Carolina), *How to count two points in the plane?*

9:55 **Josh Harrington** (Cedar Crest College), *Two questions concerning covering systems*

10:20 **Ali Uncu** (University of Florida), *A new companion to Caparelli's partition theorem*

10:45 **Sun Kim** (University of Illinois at Urbana-Champaign), *Sums of divisors functions and Bessel function series*

11:50 LUNCH (a list of restaurants in the area will be made available)

1:30 **James Maynard** (Magdalen College, University of Oxford), *Large and small gaps between primes*

2:35 COFFEE BREAK

2:50 **Lee Troupe** (University of Georgia), *Bounded gaps between primes in $\mathbb{F}_q[t]$ with a given primitive root*

3:15 **Alicia Lamarche** (Shippensburg University), *Generating composite sequences of the form $k(2^n + F_n) + 1$*

3:40 **Chao Li** (Harvard University), *Level raising mod 2 and arbitrary 2-Selmer ranks*

4:30 COFFEE BREAK

4:45 **Hua Wang** (Georgia Southern University), *Packing (colored) patterns in permutations*

5:10 **Drew Sills** (Georgia Southern University), *A formula for the partition function that "counts"*

5:35 Supper (a list of restaurants in the area will be made available)

8:00 Social Gathering (details will be given at meeting)

SUNDAY, DECEMBER 7, 2014

8:30 COFFEE AND OTHER REFRESHMENTS

9:00 **Lillian Pierce** (Duke University), *Class numbers of quadratic number fields: a few highlights on the timeline from Gauss to today*

10:05 **Kate Thompson** (Davidson College), *Local densities and quadratic forms*

10:30 COFFEE BREAK

10:45 **Anthony Varilly-Alvarado** (Rice University), *Rational points on K_3 surfaces*

11:50 **Frank Patane** (University of Florida), *An identity connecting theta series associated with binary quadratic forms of discriminant Δ and Δp^2*

12:15 **Michael Bush** (Washington and Lee University), *Non-abelian generalizations of the Cohen-Lenstra heuristics*

12:40 END OF CONFERENCE