

# Southeast Geometry Conference

## Friday-Saturday, March 11-12, 2005.

The 2005 Spring Southeast Geometry Conference will be held on the weekend of March 11-12, at the Department of Mathematics, University of South Carolina, Columbia, SC. The SEGC is an annual conference, in its sixteenth year, covering all areas of geometry focused on relatively lengthy talks (40-50 minutes is the norm), both invited and contributed. The conference is free and open to the public. Registration is not required, but we'd appreciate a quick note if you plan to come so that we can be sure to have enough coffee to go around. All conference talks will be in Room 412, LeConte.

**Poster session:** On Friday evening after dinner there will be a poster session for graduate students, or others who wish to contribute, to present their work. This will be accompanied by wine and cheese.

### Schedule for Friday, March 11

- 1:00–1:30 Refreshments (LeConte 410)
- 1:30–2:20 Jason Parsley (University of Georgia)  
Biot-Savart Operator, Helicity, and Linking on  $S^3$
- 2:30–3:20 Daniel Dix (University of South Carolina)  
Sharp rates of decay of correlations in special flows over a hyperbolic toral automorphism.
- 3:30–4:20 Ronald Fulp (North Carolina State University)  
The quantum master equation.
- 4:20–4:40 Break and refreshments (LeConte 410)
- 4:40–5:30 Shirley L. Yap (University of Pennsylvania)  
Prescribing Curvature Forms.
- 5:30–6:20 Haydee Herrera (Rutgers University - Camden)  
Elliptic genus on non-spin manifolds with  $S^1$  actions.
- 8:00–9:00 Poster session with wine and cheese. (LeConte 410)

### Schedule for Saturday, March 12

- 8:00–8:30 Refreshments (LeConte 410)
- 8:30–9:20 Conrad Plaut  
To be announced
- 9:30–10:20 Nándor Simányi (University of Alabama at Birmingham)  
Rotation numbers of billiards (A topological approach).
- 10:20–10:40 Break and refreshments (LeConte 410)
- 10:40–11:30 Jesse Ratzkin (University of Connecticut)  
Nondegeneracy of constant mean curvature surfaces.
- 11:40–12:30 Roman Vershynin (University of California, Davis)  
Probabilistic approach to asymptotic convex geometry: global and local.
- 12:30–2:00 Lunch
- 2:00–2:50 Alexander Koldobsky (University of Missouri - Columbia)  
Intersection bodies and  $L_p$ -spaces.
- 3:00–3:50 Artem Zvavitch (Kent State University)  
To be announced.
- 3:50–4:10 Break and refreshments (LeConte 410)
- 4:10–5:00 Eric Grinberg University of New Hampshire  
Tomography by maximally curved spheres in compact symmetric spaces.
- 5:10–6:00 Laszlo Székely (University of South Carolina)  
Crossing numbers of graphs.

**Lodging:** Arrangements have been made with some local hotels for special rates for participants. All of the following are within walking distance of conference, with Claussen's Inn, a quite nice bed and breakfast, being the closest (a five minute walk) and Clarion Townhouse being just a bit farther. The other two are a fifteen to twenty minute walk.

- Clarion Townhouse  
1615 Gervais Street  
(803) 771-8711  
Ask for USC rate of \$85.00/night
- Holiday Inn – City Centre at USC  
630 Assembly Street  
(803) 799-7800  
Ask for "Southeast Geometry Conference" rate of \$82.00/night You must book your room by Tuesday, Feb. 8, 2005 for this rate.
- Claussen's Inn  
2003 Greene Street  
(803) 765-0440  
\$130.00/single – \$145.00/double
- Best Western Governor's House  
1301 Main Street  
(803) 779-7790  
Ask for USC rate of \$65.00/night

More information can be found at <http://www.math.sc.edu/~howard/SEGC16/> or from the organizers:

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