



Workshop “Geometric analysis and mathematical physics” December 8-13, 2011

Program

December 8, Thursday

9:00-9:05	Opening
9:05-9:55	Valery Berestovskii (Omsk Branch of Sobolev Institute of Mathematics, Russia) <i>Homogeneous manifolds with no invariant sub-Riemannian metric</i>
10:00-10:50	Irina Markina (University of Bergen, Norway) <i>What is common in Sub-Riemannian geometry and geometry of Yang-Mills theory?</i>
10:50-11:10	Coffee break
11:10-12:00	Victor Gichev (Omsk Branch of Sobolev Institute of Mathematics, Russia) <i>On metric properties of Laplace-Beltrami eigenfunctions on compact homogeneous spaces</i>
12:05-12:55	Alexander Vasil'ev (University of Bergen, Norway) <i>Sub-Riemannian geodesics on $SU(2)$ and $SU(1,1)$</i>
12:55-15:00	Lunch
15:00- 15:50	Yurii Neretin (University of Vienna, Austria) <i>TBA</i>
16:45-evening	St.Lucia celebration starts

December 9, Friday

14:00-14:50	Sergey Vodopyanov (Sobolev Institute of Mathematics, Novosibirsk, Russia) TBA
15:00-15:30	Coffee break
15:30-16:20	Mauricio Godoy (École Polytechnique, France) <i>Rolling against a space form of negative curvature</i>
16:30-17:20	Erlend Grong (University of Bergen, Norway) <i>Geometry and the problem of rolling manifolds</i>
17:30-18:20	Hélène Airault (Université de Picardie, Saint-Quentin, France) <i>Brownian motion on an infinite dimensional Lie group</i>
19:00-	Music session

December 10, Saturday

Free day

December 11, Sunday

Free day

December 12, Monday

14:00-14:50	Nam-Gyu, Kang (Seoul National University, Republic of Korea) <i>Distribution of eigenvalues of normal random matrices near the edge of the spectrum</i>
15:00-15:30	Coffee break
15:30-16:20	Martin Schlichenmaier (University of Luxembourg) <i>Berezin transform for compact Kaehler manifolds and applications</i>
16:30-17:20	Mark Mineev-Weinstein (NMC, Los Alamos, USA) <i>News in elliptic and stochastic growth</i>
17:30-18:20	Jan Felipe van Diejen (Pontificia Universidad Católica, Santiago, Chile) TBA

December 13, Tuesday

- | | |
|---------------|--|
| 14:00-14:50 | Catherine Bénéteau (University of South Florida, Tampa, USA)
<i>The Isoperimetric Inequality and Free Boundary Problems - Part I</i> |
| 15:00-15:30 | Coffee break |
| 15:30-16:20 | Dmitry Khavinson (University of South Florida, Tampa, USA)
<i>The Isoperimetric Inequality and Free Boundary Problems - Part II</i> |
| 16:30-17:20 | Jens Hoppe (KTH, Stockholm, Sweden)
<i>Integrable hypersurface motion</i> |
| 17:30-18:20 | Evgeny Korotyaev (École Polytechnique, Palaiseau, France)
<i>The Loewner equation and action variables for dNLS on the circle</i> |
| 18:30-evening | Reception in the Flower Room |