

NONLINEAR ANALYSIS IN ROME

JUNE 26 – 30, 2017

DAILY SCHEDULE

All talks will be held in the Walsh Aula of the Rome Global Gateway.

MONDAY, JUNE 26

- **9:30 AM – 10:20 AM** Conference Registration
- **10:20 AM – 10:30 AM** Opening Remarks and Welcome
- **10:30 AM – 11:30 AM** Luigi Ambrosio (SNS - Pisa), *Optimal Transport and Ricci curvature, I*
- **11:45 AM – 12:45 PM** Jeff Streets (UC - Irvine), *Generalized Kähler Ricci flow and a generalized Calabi conjecture*
- **3:00 PM – 4:00 PM** Juncheng Wei (UBC), *Finite Morse Index Implies Finite Ends*
- **4:00 PM – 4:30 PM** Coffee
- **4:30 PM – 5:30 PM** Gabriella Tarantello (Roma "Tor Vergata"), *Liouvilletype systems in the study of non-abelian Chern-Simons vortices*

TUESDAY, JUNE 27

- **9:00 AM – 10:00 AM** Luigi Ambrosio (SNS - Pisa), *Optimal Transport and Ricci curvature, II*
- **10:00 AM – 10:30 AM** Coffee
- **10:30 AM – 11:30 AM** Tristan Rivière (ETH - Zurich), *Minmax Methods in the Calculus of Variations of Curves and Surfaces, I*
- **11:45 AM – 12:15 PM** Alessandro Iacopetti (Torino), *Radial graphs of prescribed mean curvature in the Lorentz-Minkowski space*
- **12:20 PM – 12:50 PM** Casey Kelleher (UC - Irvine), *TBD*
- **3:00 PM – 4:00 PM** Luigi Ambrosio (SNS - Pisa), *Optimal Transport and Ricci curvature, III*
- **4:00 PM – 4:30 PM** Coffee

- **4:30 PM – 5:00 PM** Francesca De Marchis (Roma La Sapienza), *Asymptotic behavior of solutions to Lane-Emden problems*
- **5:05 PM – 5:35 PM** Giovanni Catino (Politecnico di Milano), *Einstein metrics and Ricci solitons*

WEDNESDAY, JUNE 28

- **9:00 AM – 10:00 AM** Susanna Terracini (Torino), *Regularity of the optimal sets for spectral functionals, Part I: sum of eigenvalues*
- **10:00 AM – 10:30 AM** Coffee
- **10:30 AM – 11:30 AM** Tristan Rivière (ETH - Zurich), *Minmax Methods in the Calculus of Variations of Curves and Surfaces, II*
- **11:45 AM – 12:15 PM** Jae Min Lee (CUNY Graduate Center), *Local Well-posedness of the Camassa-Holm equation on the real line*
- **12:20 PM – 12:50 PM** Azahara DelaTorre (Basel), *Gluing methods for the fractional Yamabe problem with isolated singularities*

THURSDAY, JUNE 29

- **9:00 AM – 10:00 AM** Tristan Rivière (ETH - Zurich), *Minmax Methods in the Calculus of Variations of Curves and Surfaces, III*
- **10:00 AM – 10:30 AM** Coffee
- **10:30 AM – 11:30 AM** Alice Chang (Princeton), *Compactness of conformally compact Einstein manifolds in dimension 4*
- **11:45 AM – 12:15 PM** Michael Smith (UC - Berkeley), *Local $L^{\frac{1}{2}-\epsilon}$ bound on Ricci curvature assuming a Ricci curvature bound from below*
- **12:20 PM – 12:50 PM** Stephen McKeown (Princeton), *Cornered Asymptotically Hyperbolic Metrics*
- **3:00 PM – 4:00 PM** Frederic Robert (Université de Lorraine), *The Hardy-Schrödinger operator with interior singularity: mass and blow-up analysis*
- **4:00 PM – 4:30 PM** Coffee
- **4:30 PM – 5:00 PM** Mariana Smit Vega Garcia (University of Washington), *The singular free boundary in the Signorini problem*
- **5:05 PM – 5:35 PM** Gyula Csató (Universidad de Concepción), *About Hardy-Sobolev, Moser-Trudinger and isoperimetric inequalities with weights*

FRIDAY, JUNE 30

- **9:00 AM – 10:00 AM** Qing Han (Notre Dame), *On the Negativity of Ricci Curvatures of Complete Conformal Metrics*
- **10:00 AM – 10:30 AM** Coffee
- **10:30 AM – 11:30 AM** Paul Laurain (Paris Diderot), *CMC surfaces in asymptotically flat manifolds*