Meeting in Applied Mathematics
and
Calculus of Variations

Timetable – aula Picone	
Monday 3 (aula III) 15.30-15.45 Registration 15.45-16.30 Scardia 17.00 Figalli cocktail	Tuesday 4 9.00-9.45 Gigli 10.00-10.45 Daneri coffee break 11.30-12.15 Spolaor 12.30-13.15 Chiodaroli free afternoon
Wednesday 5 10.45-11.30 Bourne 11.45-12.30 Hudson lunch – poster session 14.00-14.45 Crismale 15.00-15.45 Lamy coffee break 16.30-17.15 Di Marino	Thursday 6 9.00-9.45 Laux 10.00-10.45 Olbermann coffee break 11.30-12.15 Massaccesi 12.30-13.15 Pratelli

TITLES

Monday 3

Lucia Scardia: Minimisers of nonlocal energies: the effect of anisotropy
Alessio Figalli: Free boundary regularity in obstacle problems

Tuesday 4

Nicola Gigli: Recent advances on nonsmooth calculus
Sara Daneri: Pattern formation for a local/nonlocal interaction functional in general dimension
Luca Spolaor: (Log)-epiperimetric inequality for the obstacle problem
Elisabetta Chiodaroli: Remarks on the energy equality for weak solutions to Navier--Stokes equations

Wednesday 5

David Bourne: Semi-discrete optimal transport and quantization
Tom Hudson: A three-dimensional theory of Discrete Dislocation Dynamics
Vito Crismale: Minimization and approximation of Griffith energy for brittle fracture
Xavier Lamy: On the regularity of weak solutions to Burgers' equation with finite entropy production
Simone Di Martino: Multimarginal optimal transport in Density functional theory: the strictly correlated regime

Thursday 6

Tim Laux: Convergence of the thresholding scheme to mean curvature flow in codimension two
Heiner Olbermann: On a Gamma-limit of Willmore functionals with additional curvature penalization term
Annalisa Massaccesi: Mass-minimizing integral currents: regularity at the boundary
Aldo Pratelli: On admissible elastic deformations: INV mappings and non-crossing mappings