Variational methods and applications
September 6-10, 2021 Aula Dini

Monday September 6

13:15- 14:00  Registration - Opening session

14:00- 14:10  Welcome address Andrea Malchiodi (Centro De Giorgi Director)

14:10- 15:00  Chambolle, Antonin "Effective surface tensions for periodic lattice systems - (online)"

15:00- 15:50  Bevilacqua, Giulia "The Kirchhoff-Plateau problem and its generalizations"

15:50- 16:10  Coffee break

16:10- 17:00  Orlandi, Giandomenico "Topological singular set for vector-valued maps and applications"

17:00- 17:50  De Philippis, Guido "Multilinear Kakeya and Michael-Simon inequality for anisotropic stationary varifolds - (online)"

20:00- 20:30  Dinner

Tuesday September 7

09:30- 10:20  Pluda, Alessandra "Evolution of Vector Fields on Flexible Curves and Surfaces"

10:20- 11:10  Caroccia, Marco "Contact surface of Cheeger sets"

11:10- 11:30  Coffee break

11:30- 12:20  Lemenant, Antoine "Regularity of minimizers of the Griffith functional in 2d - (online)"

12:20- 14:00  Lunch

14:00- 14:50  Ponsiglione, Marcello "Stability results for nonlocal geometric evolutions"
14:50- 15:40 **Le Van, Phu Cuong** "Minimizing movements for hyperbolic obstacle-type problems"

15:40- 16:00 Coffee break

16:00- 16:50 **Canevari, Giacomo** "The lifting problem for manifold-valued maps of bounded variation"

20:00- 20:30 Dinner

**Wednesday September 8**

9:30- 10:20 **Brasco, Lorenzo** "A semilinear spectrum for the Dirichlet-Laplacian"

10:20- 11:10 **Morini, Massimiliano** "Long-time behavior of discrete volume-preserving mean curvature flat flows"

11:10- 11:30 Coffee break

11:30- 12:20 **Scardia, Lucia** "Optimality of the ellipse for a class of nonlocal energies - (online)"

12:20- 14:00 Lunch

14:00- 14:50 **Lamboley, Jimmy** "Regularity for convex shapes minimizing perimeter"

14:50- 15:40 **Pegon, Marc** "On an isoperimetric problem involving the competition between the standard perimeter and a nonlocal perimeter"

15:40- 16:00 Coffee break

16:00- 16:50 **De Luca, Lucia** "Topological singularities in periodic media"

20:00- 20:30 Social Dinner

**Thursday September 8**

9:30- 10:20 **Cinti, Eleonora** "Flatness results for stable solutions to some nonlocal problems"

10:20- 11:10 **Leonardi, Gian Paolo** "Some new results on the prescribed mean curvature problem"

11:10- 11:30 Coffee break

11:30- 12:20 **Babadjian, Jean-Francois** "Spatial hyperbolicity for the system of perfect plasticity - (online)"

12:20- 14:00 Lunch

14:00- 14:50 **Cicalese, Marco** "Chirality transition in magnetic materials"
14:50- 15:40  Mukoseeva, Ekaterina "The sharp isocapacitary inequality: the case of p-capacity - (online)"

15:40- 16:00  Coffee break

16:00- 16:50  Merlet, Benoit "The unoriented Aviles-Giga functional for pattern formation"

20:00- 20:30  Dinner

**Friday September 8**

9:30- 10:20  Alberti, Giovanni "The vanishing mass conjecture and related geometric questions"

10:20- 11:10  Iurlano, Flaviana "Vectorial, geometrically nonlinear, phase-field approximation of a cohesive fracture energy - (online)"

11:10- 11:30  Coffee break

11:30- 12:20  Pratelli, Aldo "On the existence and regularity of minimizers of attraction-repulsion energies"

12:20- 14:00  Lunch