



ACCADEMIA NAZIONALE DEI LINCEI

CENTRO LINCEO INTERDISCIPLINARE «BENIAMINO SEGRE»

CONFERENCE

Differential evolutive models in spaces with singularities

12-13 SEPTEMBER 2024

Organizing Committee: Luigi Ambrosio (Linceo, Scuola Normale Superiore, Pisa), Piermarco Cannarsa (University of Rome "Tor Vergata", Fellow in Residence at Centro Linceo "B. Segre"), Giovanna Citti (University of Bologna, Fellow in Residence at Centro Linceo "B. Segre")

Thursday 12 September

ore 10.00 Welcoming address on behalf of the Centro Linceo by Prof. Ciro Ciliberto (Linceo, Università di Roma "Tor Vergata")

ore 10.10-10.50 Andrea Mondino (University of Oxford): *On the unification of Riemannian, Finslerian and Sub-Riemannian synthetic Ricci lower bounds*

ore 11.00-11.40 Ludovic Rifford (Université Côte d'Azur): *On the minimizing Sard Conjecture in sub-Riemannian geometry*

ore 11.40-12.00 Coffee break

ore 12.00-12.40 Lorenzo Mazzieri (Università di Trento): *Geometric inequalities and potential theory*

Lunch break

ore 14.30- 15.10 Alessandro Sarti (CAMS, EHESS, Paris): *Differential heterogenesis*

ore 15.20 - 16.00 Giuseppe Longo (Ecole Normale Supérieure, Paris): *The physical singularity of life*

ore 16.00-16.20 Coffee break

ore 16.20-17.00 Roberta Ghezzi (Università degli Studi di Roma "Tor Vergata"):
Regularity theory and geometry of unbalanced optimal transport

ore 17.10-17.50 Annalisa Baldi ("Alma Mater Studiorum" Università di Bologna):
Continuos primitives for differential forms in Euclidean spaces and Heisenberg groups

Friday 13 September

ore 9.20-10.00 Enrico Le Donne (Université de Fribourg): *Variational Curve Flows in Carnot Groups*

ore 10.10-10.50 Roberto Monti (Università di Padova): *Higher order Goh conditions for singular extremals of corank 1*

ore 10.50-11.10 Coffee break

ore 11.10- 11.50 Luca Rizzi (SISSA, Trieste): *Sard properties for polynomial maps in infinite dimension with applications to the Sard conjecture in Carnot groups*

ore 12.00- 12.40 Ugo Boscain (Sorbonne Université, Paris VI): *Heat and Schroedinger evolution on surfaces embedded in 3D contact SR manifolds*

ROMA - PALAZZO CORSINI - VIA DELLA LUNGARA, 10

SALA DELLE SCIENZE FISICHE

Until 10 a.m. it can be accessed also through Lungotevere della Farnesina, 10

Cofunded by

* *European Union - Next Generation EU. Project PRIN 2022 F4F2LH - CUP J53D23003760006 "Regularity problems in sub-Riemannian structures".*

* *Department of Mathematics Alma Mater Studiorum Università di Bologna*



ALMA MATER STUDIORUM | DEPARTMENT
UNIVERSITÀ DI BOLOGNA | OF MATHEMATICS

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The conference will be available via streaming at the webpage

<https://www.lincai.it/it/dirette-streaming>

Participation requires registration through the following [>>>LINK<<](#) or QR:

