Real and complex Manifolds. The mathematical Heritage of Edoardo Vesentini

June 29, 2021 to July 2, 2021

Scuola Normale Superiore

Scientific Program

Tuesday June 29

9:00-10:00 Introduction

10:00-10:50 **Giuseppe Tomassini**, Scuola Normale Superiore, Pisa
The mathematical work of Edoardo Vesentini

11:00-11:50 **Chiara de Fabritiis**, Università Politecnica delle Marche
From Holomorphicity to Slice-Regularity. A path inspired by Edoardo Vesentini Download abstract

12:00-12:50 **Simon Salamon**, King's College, London
Flags and twistors revisited Download abstract

Break

15:00-15:50 **Marco Abate**, Università di Pisa
Multipoint Julia theorems Download abstract

16:00-16:50 **Judith Brinkschulte**, Leipzig University
On dynamical aspects of holomorphic foliations with ample normal bundle Download abstract

17:00-17:25 **Caterina Stoppato**, Università di Firenze
Function theory over quaternionic slice domains Download abstract

17:30-17:55 **Giulio Belletti**, Heidelberg University
The maximum volume of hyperbolic polyhedra Download abstract

Wednesday June 30

9:30-10:20 **Francis Burstall**, University of Bath
Explicit eigenfunctions of the Laplacian on compact symmetric spaces Download abstract

10:30-11:20 **Eleonora Di Nezza**, Ecole Polytechnique, Paris
Pluripotential theory: how to get singular Kähler-Einstein Download abstract

11:30-11:55 **Reto Buzano**, Università di Torino and Queen Mary University of London
A local singularity analysis for the Ricci flow Download abstract

12:00-12:25 **Stefano Trapani**, Universita' di Roma Tor Vergata
The pluricomplex Poisson kernel for strictly pseudo-convex domains Download abstract

Break

15:00-15:50 **Sorin Dragomir**, Università della Basilicata
Banach manifolds of weights and quantization of mechanical systems whose phase space is a complex manifold Download abstract

16:00-16:50 **Anna Maria Fino**, Università di Torino
Pluriclosed metrics and Kähler-like conditions on complex manifolds Download abstract

17:00-17:25 **Nikolaos Chalmoukis**, Università di Bologna
Holomorphic semigroups and Sarason's characterization of vanishing mean oscillation Download abstract

17:30-17:55 **Paolo Ciatti**, Università di Padova
On the orthogonality of generalised eigenspaces for the Ornstein–Uhlenbeck operator Download abstract

Thursday July 1

9:30-10:20 **Bruno Martelli**, Università di Pisa
Hyperbolic manifolds that fiber over the circle Download abstract

10:30-11:20 **Barbara Nelli**, Università dell'Aquila
The topology of constant mean curvature surfaces with convex boundary Download abstract

11:30-11:55 **Gian Maria Dall'Ara**, INdAM and Scuola Normale Superiore, Pisa
Around L1 (un)boundedness of Szegö projections on CR manifolds of hypersurface type
Download abstract

12:00-12:25 Debora Impera, Politecnico di Torino
Quantitative index bounds for f-minimal hypersurfaces in the Euclidean space Download abstract

Break

15:00-15:50 **Harald Upmeier**, Universität Marburg
Hilbert modules and singular vector bundles on bounded symmetric domains Download abstract

16:00-16:50 **Marco Rigoli**, Università di Milano
Special structures on manifolds
and a uniqueness result for a phi CPE metric in its conformal class Download abstract

17:00-17:25 **Alessandro Monguzzi**, Università di Milano Bicocca
Bergman projection and ramified coverings Download abstract

17:30-17:55 **Maurizio Parton**, Università di Chieti-Pescara
LCK threefolds with algebraic dimension 2 Download abstract

Friday July 2

9:30-10:20 **László Stachó**, Bolyai Institute, University of Szeged
On strongly continuous semigroups of holomorphic Carathéodory isometries Download abstract

10:30-11:20 **Adriano Tomassini**, Università di Parma
Cohomology of complex non-Kähler manifolds
and harmonic forms on almost Hermitian manifolds Download abstract

11:30-11:55 **Laura Geatti**, Università di Roma Tor Vergata
N-invariant geometry of Hermitian symmetric spaces
Abstract Download abstract

12:00-12:25 **Francesco Pediconi**, Università di Firenze
On cohomogeneity-one Hermitian non-Kähler metrics Download abstract

Break

15:00-15:50 **Andrea Ratto**, Università di Cagliari
On higher order energy functionals Download abstract

16:00-16:25 **Irene Sabadini**, Politecnico di Milano
Superoscillations and infinite order differential operators Download abstract

16:30-16:55 **Marco Moraschini**, Universität Regensburg
Vanishing results of topological volumes via open covers Download abstract

17:00-17:25 **Nicola Cavallucci**, Université Grenoble-Alpes
Continuity of critical exponent of cocompact groups under Gromov-Hausdorff convergence
Download abstract