

C.I.M.E. Session

on Dynamical Systems and Small Divisors

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LIST OF C.I.M.E. SEMINARS

1954	1. Analisi funzionale	C.I.M.E
	2. Quadratura delle superficie e questioni connesse	"
	3. Equazioni differenziali non lineari	"
1955	4. Teorema di Riemann-Roch e questioni connesse	"
	5. Teoria dei numeri	"
	6. Topologia	"
	7. Teorie non linearizzate in elasticità, idrodinamica, aerodinamic	"
	8. Geometria proiettivo-differenziale	"
1956	9. Equazioni alle derivate parziali a caratteristiche reali	"
	10. Propagazione delle onde elettromagnetiche	"
	11. Teoria della funzioni di più variabili complesse e delle funzioni automorfe	"
1957	12. Geometria aritmetica e algebrica (2 vol.)	"
	13. Integrali singolari e questioni connesse	"
	14. Teoria della turbolenza (2 vol.)	"
1958	15. Vedute e problemi attuali in relatività generale	"
	16. Problemi di geometria differenziale in grande	"
	17. Il principio di minimo e le sue applicazioni alle equazioni funzionali	"
1959	18. Induzione e statistica	"
	19. Teoria algebrica dei meccanismi automatici (2 vol.)	"
	20. Gruppi, anelli di Lie e teoria della coomologia	"
1960	21. Sistemi dinamici e teoremi ergodici	"
	22. Forme differenziali e loro integrali	"
1961	23. Geometria del calcolo delle variazioni (2 vol.)	"
	24. Teoria delle distribuzioni	"
	25. Onde superficiali	"
1962	26. Topologia differenziale	"
	27. Autovalori e autosoluzioni	"
	28. Magnetofluidodinamica	"
1963	29. Equazioni differenziali astratte	"
	30. Funzioni e varietà complesse	"
	31. Proprietà di media e teoremi di confronto in Fisica Matematica	"
1964	32. Relatività generale	"
	33. Dinamica dei gas rarefatti	"
	34. Alcune questioni di analisi numerica	"
	35. Equazioni differenziali non lineari	"
1965	36. Non-linear continuum theories	"
	37. Some aspects of ring theory	"
	38. Mathematical optimization in economics	"

1966	39. Calculus of variations	Ed. Cremonese, Firenze
	40. Economia matematica	"
	41. Classi caratteristiche e questioni connesse	"
	42. Some aspects of diffusion theory	"
1967	43. Modern questions of celestial mechanics	"
	44. Numerical analysis of partial differential equations	"
	45. Geometry of homogeneous bounded domains	"
1968	46. Controllability and observability	"
	47. Pseudo-differential operators	"
	48. Aspects of mathematical logic	"
1969	49. Potential theory	"
	50. Non-linear continuum theories in mechanics and physics and their applications	"
	51. Questions of algebraic varieties	"
1970	52. Relativistic fluid dynamics	"
	53. Theory of group representations and Fourier analysis	"
	54. Functional equations and inequalities	"
	55. Problems in non-linear analysis	"
1971	56. Stereodynamics	"
	57. Constructive aspects of functional analysis (2 vol.)	"
	58. Categories and commutative algebra	"
1972	59. Non-linear mechanics	"
	60. Finite geometric structures and their applications	"
	61. Geometric measure theory and minimal surfaces	"
1973	62. Complex analysis	"
	63. New variational techniques in mathematical physics	"
	64. Spectral analysis	"
1974	65. Stability problems	"
	66. Singularities of analytic spaces	"
	67. Eigenvalues of non linear problems	"
1975	68. Theoretical computer sciences	"
	69. Model theory and applications	"
	70. Differential operators and manifolds	"
1976	71. Statistical Mechanics	Ed. Liguori, Napoli
	72. Hyperbolicity	"
	73. Differential topology	"
1977	74. Materials with memory	"
	75. Pseudodifferential operators with applications	"
	76. Algebraic surfaces	"
1978	77. Stochastic differential equations	Ed. Liguori, Napoli
	78. Dynamical systems	& Birkhäuser
1979	79. Recursion theory and computational complexity	"
	80. Mathematics of biology	"

1980	81. Wave propagation 82. Harmonic analysis and group representations 83. Matroid theory and its applications		Ed. Liguori, Napoli & Birkhäuser
1981	84. Kinetic Theories and the Boltzmann Equation (LNM 1048) 85. Algebraic Threefolds (LNM 947) 86. Nonlinear Filtering and Stochastic Control (LNM 972)		Springer-Verlag " "
1982	87. Invariant Theory (LNM 996) 88. Thermodynamics and Constitutive Equations (LN Physics 228) 89. Fluid Dynamics (LNM 1047)		" " "
1983	90. Complete Intersections (LNM 1092) 91. Bifurcation Theory and Applications (LNM 1057) 92. Numerical Methods in Fluid Dynamics (LNM 1127)		" " "
1984	93. Harmonic Mappings and Minimal Immersions (LNM 1161) 94. Schrödinger Operators (LNM 1159) 95. Buildings and the Geometry of Diagrams (LNM 1181)		" " "
1985	96. Probability and Analysis (LNM 1206) 97. Some Problems in Nonlinear Diffusion (LNM 1224) 98. Theory of Moduli (LNM 1337)		" " "
1986	99. Inverse Problems (LNM 1225) 100. Mathematical Economics (LNM 1330) 101. Combinatorial Optimization (LNM 1403)		" " "
1987	102. Relativistic Fluid Dynamics (LNM 1385) 103. Topics in Calculus of Variations (LNM 1365)		" "
1988	104. Logic and Computer Science (LNM 1429) 105. Global Geometry and Mathematical Physics (LNM 1451)		" "
1989	106. Methods of nonconvex analysis (LNM 1446) 107. Microlocal Analysis and Applications (LNM 1495)		" "
1990	108. Geometric Topology: Recent Developments (LNM 1504) 109. H_∞ Control Theory (LNM 1496) 110. Mathematical Modelling of Industrial Processes (LNM 1521)		" " "
1991	111. Topological Methods for Ordinary Differential Equations (LNM 1537) 112. Arithmetic Algebraic Geometry (LNM 1553) 113. Transition to Chaos in Classical and Quantum Mechanics (LNM 1589)		" " "
1992	114. Dirichlet Forms (LNM 1563) 115. D-Modules, Representation Theory, and Quantum Groups (LNM 1565) 116. Nonequilibrium Problems in Many-Particle Systems (LNM 1551)		" " "
1993	117. Integrable Systems and Quantum Groups (LNM 1620) 118. Algebraic Cycles and Hodge Theory (LNM 1594) 119. Phase Transitions and Hysteresis (LNM 1584)		" " "

1994	120. Recent Mathematical Methods in Nonlinear Wave Propagation	(LNM 1640)	Springer-Verlag
	121. Dynamical Systems	(LNM 1609)	"
	122. Transcendental Methods in Algebraic Geometry	(LNM 1646)	"
1995	123. Probabilistic Models for Nonlinear PDE's	(LNM 1627)	"
	124. Viscosity Solutions and Applications	(LNM 1660)	"
	125. Vector Bundles on Curves. New Directions	(LNM 1649)	"
1996	126. Integral Geometry, Radon Transforms and Complex Analysis	(LNM 1684)	"
	127. Calculus of Variations and Geometric Evolution Problems	(LNM 1713)	"
	128. Financial Mathematics	(LNM 1656)	"
1997	129. Mathematics Inspired by Biology	(LNM 1714)	"
	130. Advanced Numerical Approximation of Nonlinear Hyperbolic Equations	(LNM 1697)	"
	131. Arithmetic Theory of Elliptic Curves	(LNM 1716)	"
	132. Quantum Cohomology	(LNM 1776)	"
1998	133. Optimal Shape Design	(LNM 1740)	"
	134. Dynamical Systems and Small Divisors	(LNM 1784)	"
	135. Mathematical Problems in Semiconductor Physics	to appear	"
	136. Stochastic PDE's and Kolmogorov Equations in Infinite Dimension	(LNM 1715)	"
	137. Filtration in Porous Media and Industrial Applications	(LNM 1734)	"
1999	138. Computational Mathematics driven by Industrial Applications	(LNM 1739)	"
	139. Iwahori-Hecke Algebras and Representation Theory	to appear	"
	140. Theory and Applications of Hamiltonian Dynamics	to appear	"
	141. Global Theory of Minimal Surfaces in Flat Spaces	(LNM 1775)	"
	142. Direct and Inverse Methods in Solving Nonlinear Evolution Equations	to appear	"
2000	143. Dynamical Systems	to appear	"
	144. Diophantine Approximation	to appear	"
	145. Mathematical Aspects of Evolving Interfaces	to appear	"
	146. Mathematical Methods for Protein Structure	to appear	"
	147. Noncommutative Geometry	to appear	"
2001	148. Topological Fluid Mechanics	to appear	"
	149. Spatial Stochastic Processes	to appear	"
	150. Optimal Transportation and Applications	to appear	"
	151. Multiscale Problems and Methods in Numerical Simulations	to appear	"

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2002 COURSES LIST

Real Methods in Complex and CR Geometry

June 30 - July 6 - Martina Franca (Taranto)

Course Directors:

Prof. Dmitri Zaitsev (Università di Padova), zaitsev@math.unipd.it

Prof. Giuseppe Zampieri (Università di Padova), zampieri@math.unipd.it

Analytic Number Theory

July, 10-19 - Cetraro (Cosenza)

Course Directors:

Prof. C. Viola (Università di Pisa), viola@dm.unipi.it

Prof. A. Perelli (Università di Genova), perelli@dima.unige.it

Imaging

September, 15 - 21 - Martina Franca (Taranto)

Course Directors:

Prof. George Papanicolaou (Stanford University), papanico@georgep.Stanford.edu,

Prof. Giorgio Talenti (Università di Firenze), talenti@math.unifi.it

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