

DinAmicI VII

Varese, June 6 - 9 2022



SPEAKERS

J. AARONSON, Tel Aviv University
 F. CELLAROSI, Queen's University
 E. CORSO, ETH Zurich
 M. GIDEA, Yeshiva University
 F. GIULIANI, Politecnico Milano
 M. GUARDIA, Universitat Politècnica de Catalunya
 Z. HANI, University of Michigan
 S. JAIN, Università di Roma Tor Vergata
 M. KEßEBÖHMER, Universität Bremen
 B. LANGELLA, SISSA Trieste

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 J.E. MASSETTI, Università di Roma Tre
 P. NÁNDORI, Yeshiva University
 T. OSMAN, Queen's University
 M. POLLICOTT, University of Warwick
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Monday, June 6th

- 09.45 - Opening
- 10.00 - *Asymptotic properties of deterministic fast-slow systems*
C. Liverani
- 11.00 - Coffee break
- 11.30 - *The mathematical theory of wave turbulence*
Z. Hani
- 12.30 - Lunch
- 14.30 - *Geodesic random line processes and the roots of quadratic congruences*
J. Marklof
- 15.30 - *A few results on quenched random dynamics on open systems*
S. Vaienti
- 16.00 - Coffee break
- 16.30 - *Global effect of non-conservative perturbations on homoclinic orbits to a normally hyperbolic invariant manifold*
M. Gidea

Tuesday, June 7th

- 09.30 - *Oscillatory motions and symbolic dynamics in the three body problem*
M. Guardia
- 10.30 - *On the persistence of periodic tori for symplectic twist maps*
J.E. Massetti
- 11.30 - Coffee break
- 12.00 - *On the persistence of periodic tori for symplectic twist maps*
M. Quaschner
- 13.00 - Lunch
- 14.30 - *On triple instability*
D. Turaev
- 15.30 - Coffee break
- 16.00 - *Arnold diffusion in Hamiltonian systems on infinite lattices*
F. Giuliani
- 18.00 - *Social dinner*

Wednesday, June 8th

- 09.30 - *A hyperbolic dynamics perspective of flat surfaces*
M. Pollicott
- 10.30 - *Folding dilating shapes: a journey from Euclidean to hyperbolic geometry*
E. Corso
- 11.30 - Coffee break
- 12.00 - *Discontinuities Cause Essential Spectrum*
S. Jain
- 13.00 - Lunch
- 15.00 - *Flexibility of the central limit theorem in smooth dynamical systems*
P. Nándori
- 16.00 - Coffee break
- 16.30 - *A quantitative central limit theorem for certain unbounded observables over piecewise expanding interval map*
T. Schindler

Thursday, June 9th

- 09.30 - *The Jacobi theta function near the real line*
F. Cellarosi
- 10.30 - *Tail asymptotics for generalised Theta Sums with rational parameters*
T. Osman
- 11.30 - Coffee break
- 12.00 - *Spectral dimensions of Krein-Feller operators in higher dimensions*
M. Keßeböhmer
- 13.00 - Lunch
- 14.30 - *Growth of Sobolev norms in quasi integrable systems: a quantum Nekhoroshev theorem*
B. Langella
- 15.30 - Coffee break
- 16.00 - *Some infinite ergodic renewal theory*
J. Aaronson