

CURRICULUM VITAE

CARLO CARMINATI

PERSONAL DETAILS

Birthdate: 25th august, 1969

Place of birth: Udine, Italy

Citizenship: Italian

Researcher at the Department of Mathematics *L. Tonelli*, University of Pisa

Member of the research unit *Holomorphic dynamical systems and arithmetic* based at the *Centro di Ricerca E. De Giorgi*, Pisa.

RESEARCH INTERESTS

Presently I am mainly interested in some number theoretical aspect arising from dynamical system problems. The following phrases and keywords give a fairly exhaustive picture of my current research activity:

- Ergodic Theory
- Metric properties of continued fraction algorithms ([CMPT], [CT], [CT2], ([CT3]))
- Kneading Theory, and other combinatorial issues arising from the dynamics of quadratic polynomials ([BITC], [CT2])
- Hamiltonian systems and symplectic maps ([CMS])
- Small divisors problems and KAM theory ([CM], [CMS])

RECENT PUBLICATIONS

- (CM) C.Carminati, S.Marmi, *Linearization of germs: regular dependence on the multiplier*, SOCIETE MATHEMATIQUE DE FRANCE. BULLETIN, **136**, 2008.
- (CMPT) C.Carminati, S.Marmi, A.Profeti, G.Tiozzo ,*The entropy of alpha-continued fractions: numerical results*, NONLINEARITY, **23**, 2010.
- (CT) C.Carminati, G.Tiozzo *A canonical thickening of Q and the dynamics of continued fractions*, Ergodic Theory Dynam. Systems **32**, 2012.

- (BITC) C.Bonanno, C. Carminati, S.Isola, G.Tiozzo, *Dynamics of continued fractions and kneading sequences of unimodal maps*, Discrete Contin. Dyn. Syst. **33**, 2013.
- (CT2) C.Carminati, G.Tiozzo *Tuning and plateaux for the entropy of α -continued fractions*, NONLINEARITY **26**, 2013.
- (CT3) C.Carminati, G.Tiozzo *The bifurcation locus for numbers of bounded type*, preprint arXiv:1109.0516
- (CMS) C.Carminati, S.Marmi, D.Sauzin, *There is only one KAM curve*, preprint arXiv:1104.2979v1

OTHER PROFESSIONAL ACTIVITIES

- 2002 Local organizer of the *Research Trimester on Dynamical Systems* held in Pisa at the *Centro di Ricerca Matematica E. De Giorgi*
- 2010 Local organizer of the school *Periodic Approximation in Dynamics* held in Pisa at the *Centro di Ricerca Matematica E. De Giorgi*
- 2005- Organizer of the regular seminar of the research group *Holomorphic Dynamical Systems and Arithmetic*.
- 2013 Organizer of the workshop *Continued Fractions, Interval Exchanges and Applications to Geometry* to be held in Pisa at the *Centro di Ricerca Matematica E. De Giorgi* from 11 to 14 June;
- 2013 Organizer of the workshop *Topological and Combinatorial Problems in One-dimensional Complex Dynamics* to be held in Pisa at the *Centro di Ricerca Matematica E. De Giorgi* from 14 to 18 october.

SHORT CHRONOLOGY

- 1988–1992 Undergraduate Studies in Mathematics at the University of Pisa and at the “Scuola Normale Superiore”;
- 1992 Laurea in matematica (\sim B.S. in Mathematics) at *Università di Pisa* (thesis: *Critical points and multiplicity results for nonlinear problems*, thesis advisor: Prof. A.Ambrosetti);
- 1992 Diploma di Licenza in Matematica at *Scuola Normale Superiore, Pisa*.
- 1995- Researcher at the the Department of Mathematics *L. Tonelli*.

LANGUAGE KNOWLEDGE

Italian	native
English	fluent
French	basic
Portugese	basic
German	basic

ADDRESS

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