



Andrea Previtali

 UNIVERSITY OF INSUBRIA



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Contact data

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Biography

1965 Born in Vimercate, Milan

1984 Diploma cum laudae in languages by the I.T.C. « Villa Greppi »

1990 Degree cum laudae in Mathematics by the University of Milan with a thesis in algebraic number theory under the supervision of Prof. M. Sce

1991 First position for the assignment of a Ph D. fellowship in Mathematics by the University of Pisa

1993/4 Preparation of the Ph. D. thesis by die Gutenberg Universität zu Mainz in finite group representations theory under the supervision of Prof. Dr. B. Huppert

1995 Philosophical Doctorate summa cum laudae

1995 One-year fellowship from the Institute of High Mathematics at the Universita' La Sapienza in Rome

1996 Visiting position at the University of Wisconsin-Madison with the support of fellowships released by the Fulbright Institution, the University of Padua.

1997 Visiting position at the University of Wisconsin-Madison under the supervision of Prof. I. M. Isaacs with the support of a two-year postdoctoral fellowship from the University of Pisa

1997/8 Postdoctoral position at the University of Pisa

1999 Visiting position at the University college of Dublin to collaborate with Prof. R. Gow with the support of a C. N. R. fellowship

2000 Two-year Assegni di Ricerca from the University of Milano-Bicocca

2000 Assistant Professor at the University of Insubria

2004 Confirmed Assistant Professor at the University of Insubria

2004 Associate Professor at the University of Insubria

2005 Associate Professor at the University of Insubria

Qualifications and awards

Associate Professor in Mathematics

Research interests

My main research concerns representation theory of finite groups, with particular emphasis on simple groups. They include the so called classical groups (linear, orthogonal, symplectic and unitary), groups of exceptional type, alternating groups and sporadic groups. These have been thoroughly studied in collaboration with Prof. Michler at IEM. According to a Theorem announced in 1980 there are no other such groups apart the trivial examples of cyclic groups of prime order. Unfortunately the proof of this statement is spread among many articles and does not seem to be complete as the recent 1300-page paper by Aschbacher and Smith shows. My efforts try to grasp the structure of the 26 (or maybe more) simple groups not belonging to any infinite series.

Teaching experience and appointments

I have been teaching the following courses:

2000-2005: Algebra

2001: Galois Theory

2002: Factorization and Cryptography

2003: Combinatorial Identities and hypergeometric series

2004-2005: Error-correcting codes

2000-2004: Linear Algebra

I have been holding various seminars and conferences for high school pupils since 2002

I have been appointed as local coordinator of the project "Scientific degrees" in 2005

I am a reviewer for the American Mathematical Society.

Representative publications

1. A. Previtali, Irreducible Constituents of Monomial Characters, submitted to Transactions of the American Mathematical Society [dvi]
2. A. Previtali, Quadratic forms, unitriangular actions and character degrees, submitted to Linear Algebra and its Applications [dvi]
3. G. O. Michler, A. Previtali and M. Weller, A computer aided existence and uniqueness proof of Thompson sporadic simple group, in course of publication in Journal of Algebra [dvi]
4. G. O. Michler and A. Previtali, O'Nan group uniquely determined by the centralizer of a 2-central involution, submitted to Journal of Pure and Applied Algebra [dvi]
5. L. Di Martino, A. Previtali and R. Radina, Sets of transvections generating subgroups isomorphic to special linear groups, in course of publication in Communications in Algebra [dvi]
6. G. O. Michler and A. Previtali, Another existence and uniqueness proof for the Higman-Sims simple group, Algebra

- Colloquium, 12 (2005) [dvi]
7. M. Lovrrecic, Sarazin, W. Pacco and A. Previtali, Supergeneralized Petersen graphs, Discrete Mathematics special issue for Bled Conference in Graph Theory [dvi]
 8. A. Previtali, M. C. Tamburini and E. P. Vdovin, The Carter subgroups of some classical groups, Bulletin of the London Mathematical Society 36, 145-156 (2004) [dvi] [pdf]
 9. F. Dalla Volta, L. Di Martino and A. Previtali, On minimally irreducible groups of degree the product of two primes, Journal of Group Theory 6, 11-56 (2003) [dvi] [pdf]
 10. R. Gow, M. Marjoram and A. Previtali, On the irreducible characters of a Sylow 2-subgroup of the finite symplectic group in characteristic 2, Journal of Algebra 241, 393-409 (2001) [pdf]
 11. A. Previtali, Maps behaving like exponentials and maximal unipotent subgroups of finite Lie groups, Communications in Algebra 27, 2511-2519 (1999) [dvi]
 12. N. Gavioli, A. Mann, V. Monti, A. Previtali and C. M. Scoppola, Groups of prime power order with many conjugacy classes, Journal of Algebra 202, 129-142 (1998) [dvi] [pdf]
 13. A. Previtali, Orbit Lengths and Character Degrees in p -Sylow Subgroups of some classical Lie Groups, Journal of Algebra 177, 658-675 (1995) [dvi] [pdf]
 14. A. Previtali, On a conjecture concerning character degrees of some p -groups, Archiv der Mathematik 65, 375-378 (1995) [dvi] [pdf]
 15. A. Previtali, Monogenous integral basis in cubic number fields, Quaderni dell'Università di Pisa [dvi]
 16. A. Previtali, Structure and character degrees of Sylow p -subgroups of groups of Lie type, Quaderni dell'Università di Pisa [dvi]
 17. A. Previtali, The exponent of maximal unipotent subgroups of classical groups: the isotropic case, Quaderni dell'Università di Pisa [dvi]
 18. A. Previtali, Modular Regular Representations of Finite Fields, Quaderni dell'Università di Pisa [dvi]
 19. A. Previtali, The automorphisms of the Heisenberg group, Quaderni dell'Università di Pisa [dvi]
 20. A. Previtali, Operator groups fixing chains of subgroups, Quaderni dell'Università di Pisa [dvi]
 21. A. Previtali, Ph. D. Thesis, Struttura e gradi dei caratteri nei p -sottogruppi di Sylow dei gruppi finiti di tipo Lie, Quaderni dell'Università di Pisa [dvi]
 22. A. Previtali, Degree Thesis, Matrix representation of algebraic integers