

# Curriculum Vitae

Silvio Dolfi

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## Education

B.A. in Mathematics, University of Florence, Italy (1987). Advisor: Prof. G. Zappa.

Ph. D. in Mathematics, University of Florence, Italy (1992). Advisor: Prof. B. Huppert, University of Mainz, Germany.

## Professional Affiliation

Department of Mathematics U. Dini of the University of Florence (Italy). Viale Morgagni 67/a 50134 - Florence - Italy.

From 1995 to 2014 Silvio Dolfi has been Assistant Professor at the Department of Mathematics U. Dini of the University of Florence. From 2014 he is Associate Professor at the same department.

## Scientific Interests

Silvio Dolfi main scientific interests are in the theory of finite groups. He has done researches concerning character and representation theory of finite groups, conjugacy classes and permutation groups.

## Teaching and Scientific Activity

Silvio Dolfi has been regularly teaching courses in Algebra and Calculus at the University of Florence since 1995.

He has given seminars at Universities in Italy and abroad.

He has attended several international conferences.

He has been referee for the Journal of Algebra, Communications in Algebra, Israel Journal of Mathematics, Journal of Pure and Applied Algebra and Proceedings of the American Mathematical Society.,

## **Grants**

- Grant by Istituto Nazionale di Alta Matematica: 1987–1988.
- Grant by Università degli Studi di Firenze: 1988–1992.
- Grant by Istituto Nazionale di Alta Matematica: 1992–1994.
- Grant by Università degli Studi di Udine: 1994–1995.

## **Long and Short Visits**

- 1990–1991: Johannes Gutenberg Universität, Mainz, Germany.
- January–May 2000: University of Wisconsin, Madison, Wisconsin, USA.
- July 2000: Institute for Advanced Studies in Basic Sciences, Zanjan, Iran.
- May 2007: Universidad de Valencia, Valencia, Spain.
- March–April 2008: Department of Mathematics and Statistics, Perth, Australia.
- October–December 2008: Tel Aviv University and Technion (Haifa); Israel.
- February–March 2009: Department of Mathematics and Statistics, Perth, Australia.
- May 2010: Universidad de Valencia, Valencia, Spain.
- February–April 2011: Department of Mathematics and Statistics, Perth, Australia.
- November 2012: Universidad de Valencia, Valencia, Spain.
- February 2014: Peking University, Beijing, China.
- April 2015: Harish-Chandra Research Institute, Allahabad, India.

## **Some Invited Talks**

- Banff (Canada), July 2013, Permutation groups, Banff Research Station: “Coprime subdegrees for primitive permutation groups and completely reducible linear groups”.
- Beijing (China), June 2013, The Third International Symposium on Groups, Algebras and Related Topics: “Character degrees and class sizes in finite groups”.
- Milano, July 4–6 2011, Linear Groups and Group Representation: Classification Problems: ” Character Values and Groups Structure”.
- Padova, March 25-27 2010, Workshop in Group Theory (in memory of Silvia Lucido): ”On zeros of characters of finite groups”.

### Recent Publications

- Large orbits in coprime group actions of solvable groups, *Trans. Amer. Math. Soc.* **360** (2008), 135–152.
- (with G. Navarro e P.H. Tiep) Primes dividing the degrees of the real characters, *Math. Z.* **259** (2008), 755–774.
- (with C. Casolo) Products of primes in conjugacy class sizes and irreducible character degrees, *Israel J. Math.*, **174** (2009), 403–418.
- (with D. Bubboloni and P. Spiga) Finite groups whose irreducible characters vanish only on  $p$ -elements, *J. Pure Appl. Algebra*, **213** (2009), 370–376.
- (with E. Pacifici, P. Spiga and L. Sanus) On the orders of the zeros of irreducible characters, *J. Algebra*, **321** (2009), 345–352.
- (with D. Bubboloni, M. Iranmanesh and C. Praeger) On bipartite divisor graphs for group conjugacy class sizes, *J. Pure Appl. Algebra* **213** (2009), 1722–1734.
- (with E. Jabara) The structure of finite groups of conjugate rank 2, *Bull. Lond. Math. Soc.* **41** (2009), 916–926.
- (with G. Navarro) Large orbits of elements centralized by a Sylow subgroup, *Arch. Math.* **93** (2009), 299–304.

- (with E. Pacifici and L. Sanus) Finite groups con real conjugacy classes of prime size, *Israel J. Math.* , **175** (2010), 179–189.
- (with E. Pacifici, L. Sanus and P. Spiga) On the vanishing prime graph of solvable groups, *J. Group Theory* **13** (2010), 189–206.
- (with G. Navarro, E. Pacifici, L. Sanus and P. Tiep) Non-vanishing elements of finite groups, *J. Algebra* **323** (2010), 540–545.
- (with E. Pacifici and L. Sanus) Groups whose vanishing class sizes are not divisible by a given prime, *Arch. Math.* **94** (2010), 311–317.
- (with D. Chillag) Semi-Rational solvable groups, *J. Group Theory* **13** (2010), 535–548.
- (with E. Pacifici, L. Sanus and P. Spiga) On the vanishing prime graph of finite groups, *J. London Math. Soc.* **82** (2010), 167–183.
- (with E. Jabara and M. Herzog) Finite groups whose noncentral commuting elements have centralizers of equal size, ahead of print on *Bull. Australian Math. Soc.* **82** (2010), 293–304.
- (with E. Pacifici) Zeros of Brauer characters and linear actions of finite groups. *J. Algebra* **340** (2011), 104–113.
- (with R. Guralnick, M. Herzog and C. Praeger) A new solvability criterion for finite groups, *J. Lond. Math. Soc.* (2) **85** (2012), 269–281.
- (with C. Casolo, E. Pacifici and L. Sanus) Groups whose prime graph on conjugacy class sizes has few complete vertices, *J. Algebra* **364** (2012), 1–12.
- (with G. Malle and G. Navarro) The finite groups with no real  $p$ -elements, *Israel J. Math.*, **192** (2012), 831–840.
- (with C. Casolo and E. Jabara) Finite groups whose noncentral class sizes have the same  $p$ -part for some prime  $p$ , *Israel J. Math.* **192** (2012), 197–219.
- (with R. Guralnick, C. Praeger and P. Spiga) Coprime subdegrees for primitive permutation groups and completely reducible linear groups, *Israel J. Math.* **195** (2013), 745–772.

- (with C. Casolo, E. Pacifici, L. Sanus) Incomplete vertices in the prime graph on conjugacy class sizes of finite groups, *J. Algebra* **376** (2013), 46–57.
- (with C. Casolo, E. Pacifici and L. Sanus) Groups whose character degree graph has diameter three, to appear in the *Israel Journal of Mathematics*.

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