Curriculum (english)

Federico Menegazzo is professor of Algebra in the University of Padova. His research field is group theory.

In the first years of his scientific activity he mainly worked on problems related to lattices of subgroups; a result of his on the image of a normal subgroup under a projectivity, which appeared in 1978, has been used for several applications.

He has also been interested in automorphisms groups; in this area the results on the automorphisms of nilpotent p-groups, obtained jointly with S.E. Stonehewer (1985), may be mentioned.

His curriculum also includes studies on infinite groups with special properties; here his best results are on Heineken-Mohamed groups.

Starting in 1994, he inaugurated with A. Lucchini a long term project on generating systems of finite and profinite groups. This project led to interesting results in various directions, and was later joined by other researchers. Some computational aspects have been successfully investigated, but the main results are on problems of asymptotic type on linear groups and permutation groups (a series of 4 papers from 2000 to 2002). This project is still in progress (an article on 2-groups appeared in 2012), the emphasis being shifted from finite to (positively) finitely generated profinite groups and their Dirichlet series.

More recently his interest has been addressed to the existence and the number of complements of the socle in finite monolythic groups, a problem that may be considered an instance of non-abelian cohomology: it has been shown that an estimate given by Aschbacher and Guralnick for groups with abelian socle holds in general (A. Lucchini, F. Menegazzo, M. Morigi: Complements of the socle in monolithic groups. Groups, Geometry, and Dynamics, 2007).

His published work has appeared on internationally reputed journals. He has been in the editorial board of the 'Journal of Group Theory' from its foundation in 1998 to 2001; invited speaker and scientific organizer of international conferences in group theory.

His committments in academic offices in the University of Padova include: director of the Department of pure and applied mathematics, coordinator of the board of heads of departments, president of the Centro di Ateneo per le Biblioteche, member of the Nucleo di Valutazione di Ateneo, coordinator of the Osservatorio della Ricerca.