

Analytic and Algebraic Geometry 2

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KAMIL RUSEK SCIENTIFIC BIOGRAPHY

Kamil Rusek was born on October 1, 1947, at Aleksandrówka (near Częstochowa). He studied mathematics at the Jagiellonian University in Kraków and in 1970 after obtaining his Masters degree started there post-graduated studies for the next 3 years. Rusek was awarded PhD in 1973 for the thesis „Criteria of analyticity of mappings with values in some function spaces” written under supervision of Professor Józef Siciak. He joined the Institute of Mathematics of the Jagiellonian University and worked there until his retirement in 2012.

In 1989 he earned post-doctoral degree (the habilitation) on the basis of the dissertation „Polynomial automorphisms” and in 1999 he obtained the rank of professor.

Between 1978 and 1996 he lectured as a visiting professor at the Universities of Lille, Rennes, Chambéry and Albuquerque.

In 1998–2005 he combined his obligations at the Jagiellonian University with the job at the State Higher Vocational School at Nowy Sącz.

In 2012 – the year of his retirement – he decided to accept the position of full-time professor at the Institute of Mathematics of the Pedagogical University in Kraków for 5 years.

Rusek’s field of scientific interests fluctuated from the theory of analytic functions in topological vector spaces through analytic, algebraic and semialgebraic geometry to commutative algebra and matrix theory. For almost 30 years the central theme of his research have been polynomial mappings, especially questions concerning the Jacobian Conjecture and polynomial automorphisms, the problems by which he became captivated. From this scope he published, as the author or the co-author, 10 research papers and 2 survey articles. Among his results in this range there are an exact estimate of the degree of the inverse of a polynomial automorphism (with T. Winiarski), the invertibility of injective endomorphisms of quasi-projective varieties (with S. Cynk), criteria for surjectivity of injective real

algebraic mappings (with K. Kurdyka), invertibility of cubic linear mappings of low index of nilpotency (with L. M. Drużkowski), an identification of some essential obstacles in a geometric approach to the Jacobian Conjecture and a proof of the Meisters-Olech Conjecture.

Teaching has always been a very important factor in Rusek's carrier. For the last 30 years he devoted a lot of his effort to teaching algebra at various levels. Thanks to his dedication, as well as that of other people working with him in this area (mainly K. Nowak) the interest in algebra, especially commutative one, has increased significantly amongst faculty and students communities in Kraków.

Kamil Rusek was also deeply involved in education of young scholars. During the years 1990–2008 he was a supervisor of four PhD thesis and some of his former PhD students have now significant achievements in mathematics.

He has been an active participant in the Conferences Analytic and Algebraic Geometry organized by the Faculty of Mathematics and Computer Science of the University of Łódź since 1983.

It should be also mentioned that Rusek's interests reach far beyond mathematics. He is a fan of literature and classical music, and is very keen on hiking and downhill skiing.

PREPARED BY EDITORS