



Dyakonov, Konstantin

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Born on 30 May 1964 in Leningrad, USSR (=St. Petersburg, Russia). Graduated from Leningrad State University in 1986. PhD in Mathematics from St. Petersburg State University, 1991. Previous long-term positions: – Institute of Analysing Devices, Leningrad, USSR (1986-1989), researcher; – St. Petersburg University of Electrical Engineering, St. Petersburg, Russia, assistant professor (1989-1992) and then associate professor (1992-1998) in the Department of Mathematics; – Universidad de La Laguna, Tenerife, Spain (1996-1997), visiting professor; – Universitat de Barcelona, Spain (1999-2001), visiting research fellow; – Steklov Institute of Mathematics, St. Petersburg Branch (POMI), St. Petersburg, Russia (1998-2007), senior researcher; – Universitat de Barcelona, Spain (2003-2006), Ramón y Cajal researcher. Prizes: Young Scientist Award in the area of Mathematics from Academia Europaea (for fSU researchers), 1998.

Research interests

Most of my research is devoted to spaces of analytic functions of a complex variable. Typically, the functions live on the unit disk and are well-behaved, in a sense, near/on its boundary, the unit circle. Various specific interpretations of “well-behaved”, such as a natural growth restriction or some kind of boundary smoothness, give rise to important function spaces with nice properties, and I have studied some of these. I am also concerned with certain types of linear operators (e.g., the so-called Toeplitz and Hankel operators) acting on such spaces.

Selected publications

– **Dyakonov KM** 2017, ‘Smooth Analytic Functions and Model Subspaces’, In: Pereyra M, Marcantognini S, Stokolos A & Urbina W (eds) ‘Harmonic Analysis, Partial Differential Equations, Banach Spaces, and Operator Theory’, Volume 2, pp. 239-266, Association for Women in Mathematics Series, vol. 5, Springer, Cham.

– **Dyakonov KM** 2017, ‘Factorization and non-factorization theorems for pseudocontinuable functions’, *Advances in Mathematics*, vol. 320, pp. 630-651.

Selected research activities

- * Advanced undergraduate course “Functions of a complex variable”, taught at the UB in February – May 2017.
- * Problem solving classes in Mathematical Analysis, taught at the UB in September – December 2017.
- * Editorial boards: Journal of Complex Analysis (Hindawi Publ. Corp.), Applied Mathematics (Sci. Res. Publ.).
- * A number of invited talks at various conferences in Russia, Poland and Spain.
- * A talk at the UB/UAB Analysis Seminar (October 2, 2017).
- * Coordinator (on behalf of the UB Complex Analysis group) for the Spanish research network “Variable compleja, espacios de funciones y operadores entre ellos”.
- * Member of the Scientific Committee for the “Fourth Summer School in Complex Analysis” (June 12-15, 2017), held at Universidad Carlos III de Madrid, Leganés, Spain.
- * Served as referee for a number of mathematics journals.