

RNDr. Jiří Rákosník, CSc.

Curriculum vitae

Personal Information

- Born on 19 December 1950 in Varnsdorf, Czech Republic
- Married (Zuzana), two children (Marie, Kryštof)

Affiliation

- Institute of Mathematics
of the Academy of Sciences of the Czech Republic
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Current Position

- Deputy Director
- Researcher in the Department of Topology and Functional Analysis

Background and Academic Qualification

- 1980: CSc. degree (PhD. equivalent), Charles University, Praha, mathematical analysis (Thesis: Weak solutions to non-linear partial differential equations in anisotropic Sobolev spaces)
- 1978: RNDr. degree, Charles University, Praha (Thesis: Anisotropic Sobolev spaces)
- 1975: graduated from Charles University, Faculty of Mathematics and Physics, Praha, mathematical analysis

Professional Experience

- Since 2010: Supervisory Committee of the Academy Assembly, chair
- Since 2009: Institute of Mathematics AS CR, Deputy Director
- 2001–2009: Presidium of the Academy Council, AS CR, member responsible for economic matters
- 2001–2009: Council for Economy AS CR, President
- Since 2007: Supervisory Boards in 7 research institutes of the AS CR, member and Chairman
- 2003–2005: Advisory body for the Committee for Science, Education, Culture, Youth and Sport of the Parliament of the Czech Republic, Chamber of Deputies, member
- Since 2001: Member of several ad hoc committees and working groups for legislation and conceptual matters in R&D (National R&D Policy, Analysis of the State and Trends of R&D in the Czech Republic, Act on Public Research Institutions etc.)
- 1999–2001: Supervisory Committee of the Academy Assembly AS CR, Vice-President
- 1993–2001: Council for Economy AS CR, member
- Since 1998: Academy Assembly AS CR, member
- 1990–1996: Institute of Mathematics AS CR, Deputy Director
- Since 1980: Institute of Mathematics AS CR, researcher
- 1979–1980: Czech Agriculture University, Prague, lecturer

Research Activities

- Mathematical Analysis: theory of function spaces, weighted estimates for integral and differential operators, applications for partial differential equations
- Digitization of mathematics and digital mathematics libraries
- Author of more than 30 research papers, editor of 7 conference proceedings
- Participant in 6 national and international research projects

- Research visits and lectures: Bulgarian Academy of Sciences in Sofia, University of Helsinki, University of Oulu, Georgian Academy of Sciences in Tbilisi, Freie Universität Berlin, Universität Erlangen-Nürnberg, Friedrich-Schiller-Universität Jena, Humboldt Universität Berlin, Baptist University Hong Kong, Chinese University Hong Kong, Polytechnic University Hong Kong, Banach Center Warsaw, Russian Academy of Sciences in Moscow, University of Sussex, University of Wales

Other Activities

- Since 2010: European Science Foundation, Finance & Audit Committee, member
- Since 2009: Committee for Electronic Publishing, European Mathematical Society, member
- Since 2000: European Mathematical Society, member
- Since 1996: Czech Mathematical Society, Vice-President
- 1991–1998: Council of the European Mathematical Society, member
- Since 1997: Czech Editorial Unit of the Zentralblatt-MATH, head
- 1993–1996: Union of Czech Mathematicians and Physicists, Vice-President
- 1993–1996: Czech Mathematical Society, President
- 1990–1993: Czech Mathematical Society, Vice-President

Selected Publications

- Rákosník, J.: Recent development of the DML-CZ and its current state. In Proceedings of the DML 2011. Towards a Digital Mathematics Library, Bertinoro, Italy, 20.–21.7.2011, editors: Sojka, Petr, Bouche, Thierry, Masaryk University Press, Brno, Brno, 2011, 9–14.
- Opic, B., Rákosník, J.: Weighted estimates for the averaging integral operator. *Collect. Math.* 61, 3 (2010), 253–262.
- Sojka, P., Rákosník, J.: From pixels and minds to the mathematical knowledge in a digital library. In Proceedings of DML 2008: Towards Digital Mathematics Library. Birmingham, United Kingdom, July 27th, 2008, pp. 17–27.
- Bartošek, M., Lhoták, M., Rákosník, J., Sojka, P., Šárky, M.: DML-CZ: The objectives and the first steps. In Borwein, J., Rocha, E. M., Rodrigues, J. F., eds.: *CMDE 2006: Communicating Mathematics in the Digital Era*. A K Peters, Wellesley, MA, 2008, pp. 69–79.
- Edmunds, D. E., Rákosník, J.: Sobolev embeddings with variable exponent. I, II. *Studia Math.* 143 (2000), 267–293; *Math. Nachr.* 246-247 (2002), 53–67.
- Edmunds, D. E., Opic, B., Rákosník, J.: Poincaré and Friedrichs inequalities in abstract Sobolev spaces II. *Proc. Cambridge Phil. Soc.* 115 (1994), 159–173.
- Edmunds, D. E., Rákosník, J.: Density of smooth functions in $W^{k,p(x)}(\Omega)$. *Proc. Royal Soc. London A* 437 (1992), 229–236.
- Kováčik, O., Rákosník, J.: On spaces $L^{p(x)}(\Omega)$ and $W^{k,p(x)}(\Omega)$. *Czechoslovak Math. J.* 41(116) (1991), 592–618.
- Opic, B., Rákosník, J.: Estimates for mixed derivatives of functions from anisotropic Sobolev-Slobodeckij spaces with weights. *Quart. J. Math. Oxford Ser.* 42 (1991), 347–363.
- Evans, W. D., Rákosník, J.: Anisotropic Sobolev spaces and a quasidistance function. *Bull. London Math. Soc.* 23 (1991), 59–66.
- Rákosník, J.: On embeddings and traces in Sobolev spaces with weights of power type. *Approximation and function spaces*. Banach Center Publications 22. PWN – Polish Scientific Publishers, Warsaw, 1989, 331–339.

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