

# PROFESSOR ALEXANDRE V. BOROVIK

## Brief Curriculum Vitae

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<b>Personal</b>	Nationality: British	
<b>Education</b>	INSTITUTE OF MATHEMATICS, MINSK	1982
	PhD in Mathematics	
	NOVOSIBIRSK STATE UNIVERSITY	1978
	MSc in Mathematics	
	PHYSICS AND MATHEMATICS PREPARATORY BOARDING SCHOOL ( $\Phi$ MIII), NOVOSIBIRSK	1971–1973
<b>Appointments</b>	Professor Emeritus, University of Manchester	since 2020
	Professor of Pure Mathematics, UMIST and University of Manchester	1998–20
	Lecturer and Reader, Department of Mathematics, UMIST	1992–98
	Visiting Associate Professor, Rutgers University, New Jersey, USA	1991–92
	Visiting Associate Professor, University of California, Irvine, USA	1990–91
	Assistant and Associate Professor (half time), Omsk University, Russia	1982–90
	Research Fellow, Russian Academy of Sciences, Omsk, Russia	1978–91
<b>Service to Community and Advisory Work</b>		
	European Mathematical Society	
	— Member of Solidarity Committee	since 2019
	London Mathematical Society	
	— Trustee and Council Member	2007–12, 2014–20
	British Logic Colloquium	
	— Trustee and Member of the Committee	2010–2016
	University of Lincoln, UK	
	— Member of Advisory Board, School of Physics and Mathematics	since 2014
	— External Examiner, Pure Mathematics	since 2019
	Department of Education, UK	
	— Adviser, National Curriculum Reform	2011–14
	Cambridge University, UK	
	— External Moderating Examiner of Mathematical Tripos Part IA	2011–14
	Cambridge University, UK	
	— Advisor, Cambridge Mathematics Education Project	2011–13
	University of Glasgow, UK	
	— External Examiner	2007–11
<b>Editorships</b>	Journal of Group Theory	2000–2017
	The De Morgan Gazette	2012–2020

## Publications

Altogether – 6 books and 100+ papers, the earliest in 1976.

### Books

- 2019 The Essence of Mathematics – Through Elementary Problems. Open Book Publishers. 396 pp. (With Tony Gardiner.)
- 2010 Mathematics under the Microscope: Notes on Cognitive Aspects of Mathematical Practice. Amer. Math. Soc., Providence, RI. 317 pp. Available from <http://www.ams.org/bookstore-getitem/item=mbk-71>.
- 2009 Mirrors and Reflections. The Geometry of Finite Reflection Groups. Springer, 2009. xii + 172 pp., 72 illus. (With Anna Borovik.) ISBN 978-0-387-79065-7.
- 2008 Simple Groups of Finite Morley Rank, Amer. Math. Soc. Monographs Series, Amer. Math. Soc., Providence, RI. Approx. 556 pp. (with T. Altinel and G. Cherlin).  
Review: D. Macpherson, *Simple groups of finite Morley rank, by T. Altinel, A.V. Borovik, and G. Cherlin*. Bull. Amer. Math. Soc. 47 no. 4 (2010), 729–734.
- 2003 Coxeter Matroids, Birkhäuser, xiv+264 pp., (with I. M. Gelfand and N. White).
- 1994 Groups of Finite Morley Rank, Oxford University Press, xi+409 pp. (with A. Nesin).

### Papers since retirement in August 2020

1. Mathematics and mathematics education in the 21st century. arXiv:2201.08364 [math.HO]. (With Z. Kocsis and V. Kondratiev.)
2. The Kolmogorov reform of mathematics education in the USSR. To appear as a chapter in D. De Bock (Ed.), *Modern Mathematics—An International Movement?*, Springer Nature, 2022.
3. Groups of finite Morley rank with a generically multiply transitive action on an abelian group. Model Theory 1 no. 1 (2022), 1–14. arXiv:2107.09997. (With A. Berkman.)
4. Mathematics education policy as a high stakes political struggle: The case of Soviet Russia of the 1930s. arXiv:2105.10979 [math.HO]. (With S.D. Karakozov and S.A. Polikarpov)
5. A mathematician's view of the unreasonable ineffectiveness of mathematics in biology, Biosystems, 205, 104410, 2021. ISSN 0303–2647, <https://www.sciencedirect.com/science/article/pii/S0303264721000654>. arXiv:2103.04190 [math.HO].
6. A view from lockdown: mathematics discovered, invented, and inherited. In: Mathematics Online First Collections. Springer, [https://doi.org/10.1007/16618\\_2020\\_6](https://doi.org/10.1007/16618_2020_6), 2020. arXiv:2103.04101 [math.HO].
7. Finite group actions on abelian groups of finite Morley rank. arXiv:2008.00604 [math.GR]
8. Natural representations of black box groups encrypting  $SL_2(\mathbb{F}_q)$ . (With Ş. Yalçinkaya.) arXiv:2001.10292 [math.GR].

*Last updated 08 August 2022.*