

Dr Natalia Petrovskaya

Lecturer in Applied Mathematics

[School of Mathematics \(/schools/mathematics/index.aspx\)](/schools/mathematics/index.aspx)

Contact details

Telephone [+44 \(0\) 121 414 6591](tel:+441214146591) (tel:+44 121 414 6591)

Fax +44 (0) 121 414 3389

Email n.b.petrovskaya@bham.ac.uk (mailto:n.b.petrovskaya@bham.ac.uk)

School of Mathematics
Watson Building
University of Birmingham
Edgbaston
Birmingham
B15 2TT
UK



About

School web page: web.mat.bham.ac.uk/N.B.Petrovskaya/ (<http://web.mat.bham.ac.uk/N.B.Petrovskaya/>)

Qualifications

- PhD (Computational Mathematics, Keldysh Institute for Applied Mathematics, Moscow, Russia, 1995)

Research

RESEARCH INTERESTS

Applied numerical analysis and computer simulation.

Publications

A full listing can be found at web.mat.bham.ac.uk/N.B.Petrovskaya/NBPetrovskaya_publications.htm
(http://web.mat.bham.ac.uk/N.B.Petrovskaya/NBPetrovskaya_publications.htm)

SELECTED:

N.B.Petrovskaya. On Oscillations in Discontinuous Galerkin Discretization Schemes for Steady State Problems. SIAM J. Sci. Comput., 2006, vol.27(4), pp.1329-1346.

N.B.Petrovskaya. Two Types of Solution Overshoots in Discontinuous Galerkin Discretization Schemes. Comm. Math. Sci., 2005, vol.3(2), pp. 233-247.

N.B.Petrovskaya. Grid Refinement Analysis for Vector Functions. Comput. Tech., 2004, vol.9(4), pp. 3-14.

N.B.Petrovskaya. Modification of a Finite Volume Scheme for Laplace's Equation. SIAM J. Sci. Comput., 2001, vol.23(3), pp.891-909.