

PhD Courses

- Domain Decomposition Methods (BM)
(M. Beneš, P. Mayer)
- Multi-Physics Mathematical Problems (BM)
(M. Beneš, P. Mayer)
- Functional Analysis
(J. Bobok, I. Marek, A. Nekvinda)
- Topics from Ergodic Theory and Dynamical Systems
(J. Bobok)
- Discretization in time and partial differential equations (F. Bubeník)
- Some properties of solutions of the Navier-Stokes equations with Dirichlet or mixed boundary conditions
(P. Kučera)
- Partial Differential Equations with Applications
(P. Kučera, Z. Skalák)
- Matrix Theory as a Bridge between Linear Algebra and Functional Analysis
(I. Marek)
- Numerical Methods for Non-Mathematicians
(I. Marek)
- Special Functions
(I. Marek)
- Multi-level Computations
(I. Marek)
- Function Spaces and Their Applications
(A. Nekvinda)
- Asymptotic concentration of energy in solutions to the Navier-Stokes equations
(Z. Skalák)

Possible supervision of the following PhD thesis:

- M. Beneš, P. Mayer: Mathematical Models of Concrete in Extreme Situations
- J. Bobok: Entropy in Dynamical Systems
- J. Bobok: Combinatorial Properties of Low Dimensional Dynamical Systems
- F. Bubeník: Technical applications of time discretization
- P. Kučera: Qualitative properties of solutions of the incompressible Navier-Stokes equations
- I. Marek: Positivity Systems and their evolution
- I. Marek: Approximation of Semigroups of operators
- I. Marek: Input-Output Models
- I. Marek: Structured Solutions to Systems of PDE's
- A. Nekvinda: Function Spaces and Their Applications
- Z. Skalák: Large time behavior of solutions to the Navier-Stokes equations