

Titles of the lectures

September 9, 2005

- E. Bohl *Diauxie growth. Modeling a pathway in a cell*
- P. Burda, J. Novotný, J. Šístek *An application of a priori and a posteriori error estimate to accurate FEM solution for incompressible flows*
- M. Čertíková, J. Novotný, B. Sousedík, J. Tuzar *Výpočty napjatosti kloubní náhrady metodou konečných prvků*
- V. Dolejší *The title will be announced later*
- Z. Dostál *Solution of coercive and semicoercive boundary variational inequalities by combining fast quadratic programming algorithms with symmetric BEM*
- I. Hlaváček *Mixed finite element analysis of semi-coercive unilateral contact problems with given friction*
- J. Chleboun *Problems with fuzzy data*
- D. Janovská *A mathematical introduction to chemical networks*
- V. Janovský *The analytic singular value decomposition*
- R. Kohut *Parallel computing of nonstationary heat equations*
- K. Krečmer *The PETSc library*
- J. Kruis *Combination of particular and continuous models*
- Kučera V. *The title will be announced later.*
- J. Lampe *Second order Arnoldi reduction: Application to some engineering problems*
- L. Lukšan *An efficient method for minimizing large-scale partially separable nonsmooth functions*
- P. Moses *An application of BEM in acoustic scattering*
- A. Prachař, K. Najzar *Discontinuous Galerkin method on problems with nonlinear Newton boundary conditions*
- P. Přikryl (1) *Verification and validation of a computer model of phase changes*
- P. Přikryl (2) *Verification of a computational solution to the Stefan problem*

M. Rozložník	<i>Rounding error analysis of the classical Gram-Schmidt process</i>
K. Segeth, P. Šolín	<i>Hierarchic Hermite elements in two dimensions</i>
V. Sobotíková	The title will be announced later
J.D. Tebbens, M. Tůma	<i>Preconditioning of sequences of large sparse and non-symmetric linear systems</i>
V. Vondrák	<i>The role of mathematical programming in muscle recruitment</i>
H. Voss (1)	<i>Automated multi-level substructuring for nonlinear eigenvalue problems</i>
H. Voss (2)	<i>Numerical simulation of quantum dots</i>