Collaborators for volume 49

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We have now completed volume 49 of BIT. It is time to say thank you to all that have helped us making this volume possible.

These are the referees for 2009. Forgive me if I have left out somebody deserving to be on the list. Welcome back to the BIT family next year!

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Introduction to the contents of issue 49:4

We start this issue with a contribution of Mathematical Physics interest. *Snorre Christiansen* and *Tore Halvorsen* study convergence of discretizations to the Maxwell equations of electromagnetism. A lattice gauge theory is shown to preserve important symmetries and its convergence in energy norm is proved.

We have one work in linear algebra. *Iveta Hnětynková*, *Martin Plešinger* and *Zdeněk Strakoš* solve a matrix regularization problem with the quite common technique of first applying the Golub Kahan bidiagonalization algorithm to find a core problem, and then regularizing this low dimensional bidiagonal core problem. A stopping criterium is developed that can be used also when the noise level in the right hand side observation vector is unknown.

Two contributions deal with convergence of finite element approximations. *Mohammad Izadi* gives estimates for finite element approximations to one-dimensional time dependent coupling equations of two scalar conservation laws. A variant of a streamline diffusion discretization is used.

Ljiljana Teofanov and *Helena Zarin* study a finite element solution of singularly perturbed elliptic problems with two small perturbation parameters. The solution then has rapid changes in boundary layer parts of the domain. The interest is in superconvergence and postprocessing on a layer adapted mesh.

Finally we have a new contribution to the *chebfun* system, where functions are represented by interpolation polynomials to machine accuracy. *Richardo Pachón* and *Lloyd Trefethen* give an implementation of the Remez exchange algorithm to find a minimax polynomial approximation to a function over an interval. The use of barycentric coordinates and a global rootfinder makes the algorithm usable also for polynomials of very high degrees.

Welcome to another issue of BIT!

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