

"Robust parallel algebraic multigrid and multilevel techniques" organized by Svetozar Margenov

### Lectures

1. On the role of the strengthened C.B.S. inequality in the theory of algebraic multilevel iteration (AMLI) methods. (Svetozar Margenov)  
October 11, 2005, Time: 15:30 - 17:00, Room: T 1010  
slides (pdf)
2. Optimal multilevel preconditioning of strongly anisotropic problems. Part I: conforming FEM. (Svetozar Margenov)  
October 18, 2005, Time: 15:30 - 17:00, Room: T 1010  
slides (pdf)
3. Optimal multilevel preconditioning of strongly anisotropic problems. Part II: non-conforming FEM. (Svetozar Margenov)  
October 25, 2005, Time: 15:30 - 17:00, Room: T 1010  
slides (pdf)
4. Robust AMLI preconditioning of FEM elasticity problems. (Svetozar Margenov)  
November 22, 2005, Time: 15:30 - 17:00, Room: T 1010  
slides (pdf)
5. Algebraic multilevel preconditioning using local Schur complements. (Johannes Kraus)  
November 29, 2005, Time: 15:30 - 17:00, Room: T 1010  
abstract (pdf), slides (pdf)

### Seminars

1. Locally optimized parameters of AMLI algorithms for conforming FEM problems.  
November 15, 2005, Time: 15:30 - 17:00, Room: T 1010  
slides (pdf)
2. Multilevel methods with aggregation for nonconforming FEM problems.  
December 6, 2005, Time: 15:30 - 17:00, Room: T 1010
3. Research seminar (discussion).  
December 13, 2005, Time: 15:30 - 17:00, Room: T 1010