

Berlin-Braunschweig-Chemnitz Workshop

Recent Advances in Model Reduction

Chemnitz, 27 November 2006

Location: TU Chemnitz, 2/N113, see

http://www.tu-chemnitz.de/tu/lageplan/campusfinder/campusfinder.php?id=761&objekt_id=765

09:00 – 09:10 Welcome

09:10 – 09:50 Timo Reis (TU Berlin), *Finite time horizon model reduction by balanced truncation.*

09:50 – 10:30 Tatjana Stykel (TU Berlin), *Model reduction of descriptor systems via positive real interpolation.*

10:30 – 11:00 Coffee & tea break.

11:00 – 11:40 Peter Benner (TU Chemnitz), *Model reduction using center and inertial manifolds.*

11:40 – 12:20 Andreas Koehler (TU BA Freiberg), *Block-Krylov based model reduction of second order LTI Systems resulting from modeling of MEMS and transmission lines.*

12:20 – 13:30 Lunch.

13:30 – 14:10 Ulrike Baur (TU Chemnitz), *Multipoint Padé approximation for parametric model order reduction.*

14:10 – 14:50 Mohammed Sahadet Hossain (TU Chemnitz), *Model reduction of time-varying linear systems using approximate multipoint Krylov-subspace projectors.*

14:50 – 15:20 Coffee & tea break.

15:20 – 16:00 Heike Faßbender (TU Braunschweig), *Model reduction for nonlinear systems based on trajectory piecewise-linear approximations.*

Talks will be 30 minutes with 10 minutes for discussion.

Note: the talks given during this workshop are mostly based on recent work of others and may not directly or indirectly relate to the speakers own work; the intention is to present new developments in model reduction.