

# Zürich Summer School

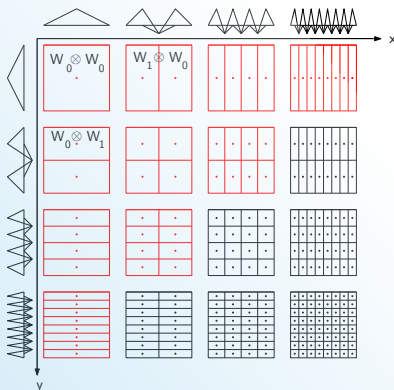
Organizers: R. Hiptmair, Ch. Schwab (ETH Zürich), S. Sauter (Universität Zürich)

23. - 27.8.2010

## Sparse Tensor Discretizations of High-Dimensional Problems

Themes:

- Low rank approximations in numerical linear algebra
- Adaptivity in tensor discretizations
- Hyperbolic cross and sparse grid approximation
- Regularity of high-dimensional PDE problems
- Complexity of sparse approximation methods
- Low rank discretizations of operator equations



Applications:

- PDE sensitivity on high-dimensional parameter spaces
- Stochastic partial differential equations
- High-dimensional transport equations
- Electron structure calculations

Plenary Lecturers:

- L. Grasedyk (MPI Leipzig, Germany)
- M. Griebel (University of Bonn, Germany)
- R. Hiptmair (ETH Zürich, Switzerland)
- M. Mohlenkamp (Ohio University, USA)
- Ch. Schwab (ETH Zürich, Switzerland)

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Information and online registration:

[www.sam.math.ethz.ch/zss](http://www.sam.math.ethz.ch/zss)

Registration deadline: 30.06.2010