

Graduiertenkolleg "Hierarchie und Symmetrie in mathematischen Modellen"  
Sommerschule'06 : "Automatisches Differenzieren"  
14.8. - 18.8.2006, Universitätskolleg Bommerholz

Programm der Sommerschule:

Montag, 14. August 2006

- 12:30-14:30 *Mittagspause*  
14:30-15:15 "Estimation of sparse Jacobian matrices and graph coloring problems" [Daniela Dossing](#)  
15:15-16:00 "Method of Newsam and Ramsdell" [Gerrit Welper](#)  
16:00-16:30 *Kaffeepause*  
16:30-17:15 "Dynamic Programming" [Simon Blatt](#)  
17:15-18:00 "Differentiation of Integration algorithms" [Zofia Maczynska](#)  
18:00-18:45 "Second-Order Differentiation" [Yi Heng](#)

Dienstag, 15. August 2006

- 08:45-09:30 "Interface Contraction" [Markus Kirschmer](#)  
09:30-10:15 "Intermediate Sparsity" [Roland Schäfer](#)  
10:15-11:00 "Pseudo-Adjoint" [Vitaliy Pasyuga](#)  
11:00-11:30 *Kaffeepause*  
11:30-12:15 "Dual Computational Graph" [Marc Eisenbach](#)  
12:15-13:00 "Single-Expression-Use Graphs" [Arne Lorenz](#)  
13:00-14:30 *Mittagspause*  
14:30-15:30 "AD- Introduction (I)" [Christian Bischof](#)  
15:30-16:00 *Kaffeepause*  
16:00-17:30 "AD- Introduction (II)" [Christian Bischof](#)

Mittwoch, 16. August 2006

- 09:00-10:30 "Adjoint Computation" [Nicolas Gauger](#)  
10:30-11:00 *Kaffeepause*  
11:00-12:30 "Complexity of Derivative Computation" [Uwe Naumann](#)  
12:30-14:00 *Mittagspause*  
14:00- Exkursion

Donnerstag, 17. August 2006

- 09:00-10:30 "Implicit and iterative Differentiation" [Andreas Griewank](#)  
10:30-11:00 *Kaffeepause*  
11:00-12:30 "Inversion of coupled groundwater flow and heat transfer" [Andreas Wolf](#)  
12:30-14:00 *Mittagspause*  
14:00- AD- Praktikum

Freitag, 18. August 2006

- 09:00-10:30 "AD- enabled optimization" [Andreas Griewank](#)  
10:30-11:00 *Kaffeepause*  
11:00-12:30 "Exploiting Sparsity" [Andrea Walther](#)  
12:30-14:00 *Mittagspause*