

"Discontinuous Galerkin methods" organized by Raytcho Lazarov

**Next:** Possible research topics and **Up:** L\_Schedule **Previous:** Main Topics with Abstracts

## Tentative Schedule for Lectures

- Lecture 1: The origin of Discontinuous Galerkin methods (RL):  
04.10.05, 13:45-15:15, Room: T112
- Lecture 2: DG as stabilization of FEM for problem with Lagrange multipliers (RL):  
11.10.05, 13:45-15:15, Room: HF 9901
- Lecture 3: DG for convection-diffusion problems (RL):  
18.10.05, 13:45-15:15, Room: T112
- Lecture 4: Hybridization of the DG FEM (Jay Gopalakrishnan):  
25.10.05, 13:45-15:15, Room: HS 11
- Lecture 5: DG method for mixed problems (RL):  
2.11.05, 13:45-15:15, Room: HF 9901
- Lecture 6: Error analysis of the LDG method (RL):  
8.11.05, 13:45-15:15, Room: HS 11
- Lecture 7: DG schemes for Stokes, Navier-Stokes, and Oseen problems (RL):  
15.11.05, 13:45-15:15, Room: HS 11
- Lecture 8: Unified analysis of DG FEM.I (ST):  
6.12.05, 13:45-15:15, Room: HF 136
- Lecture 9: Unified analysis of DG FEM.II (ST):  
13.12.05, 13:45-15:15, Room: HF 136

### Participants' seminar 1:

22.11.05, 13:45-15:15, Room: HS 11

1. James Lu: Dual-consistency analysis for treatment of functional output in DG discretization of compressible Navier-Stokes equations
2. Ivan Georgiev: A Simple Nonconforming Bilinear Element for the Elasticity Problem

### Participants' seminar 2:

10.01.06, 13:45-15:15, Room: HS 11

1. Hui Cao: An apriori error analysis of the local discontinuous Galerkin method for elliptic problems
2. Shuai Lu: A discontinuous Galerkin method for nonoverlapping domain decomposition for the Stokes and Navier-Stokes problems

### Participant's seminar 3:

17.01.06, 13:45-14:30, Room: HS 11

1. Astrid Sinwel: The method of Baumann and Oden

**Participant's seminar 4:**

24.01.06, 13:45-14:30, Room: HS 11

1. Huidong Yang: NIPG - The Nonsymmetric Interior Penalty Galerkin Method

**Participant's seminar 5:**

30.01.06, 13:45-14:30, Room: HS 11

1. Roman Heinzle: Method of Babuska - Zlamal
- 

*Satyendra Tomar 2005-08-18*