

**Mathematische Fakultät**  
GEORG-AUGUST-UNIVERSITÄT GÖTTINGEN

**Vorlesungsprogramm**  
**Summer School on Dynamical Systems**  
June 23–July 11 2008

**Monday, June 23**

9:15–10:15 Registration

10:30–11:45: A. Zorich (Rennes): Geometry and dynamics of flat surfaces I. (Introductory course on a somewhat advanced level)

14:00–15:15: M. Denker (Göttingen): Ergodic theory I. (Chapter 5 of 'M. Denker: Einführung in die Analysis dynamischer Systeme', English texts will be made available)

15:30–17:00: Seminar talks: R. Miles (Stockholm), M. Szostakiewicz (Warsaw), Mario Roy (Toronto).

**Tuesday, June 24**

9:15–10:30 M. Denker (Göttingen): Ergodic theory II. (Chapter 5 of 'M. Denker: Einführung in die Analysis dynamischer Systeme', English texts will be made available)

10:45–12:00 A. Zorich (Rennes): Geometry and dynamics of flat surfaces II. (introductory course on a somewhat advanced level)

14:00–14:45 Excercise Section Ergodic Theory: S. Kombrink

15:00–17:00 Seminar talks: C. Wolf (Wichita) and K. Gelfert (Chicago)

**Wednesday, June 25**

9:15–10:30 M. Denker (Göttingen): Ergodic theory III. (Chapter 5 of 'M. Denker: Einführung in die Analysis dynamischer Systeme', English texts will be made available)

10:45–12:00 A. Zorich (Rennes): Geometry and dynamics of flat surfaces III. (Introductory course on a somewhat advanced level)

14:00– Excursion: Plesseburg: walking, sightseeing, relaxing...

**Thursday, June 26**

9:15–10:30 M. Denker (Göttingen): Ergodic theory IV. (Chapter 5 of 'M. Denker: Einführung in die Analysis dynamischer Systeme', English texts will be made available)

10:45–12:00 H. Kriete (Göttingen): Iteration of analytic funktions I.

14:15–15:45 Exercise Section Complex Iteration Theory: S. Kombrink

16:00–17:45 talks by A. Benini (SUNY) and Inou (Toulouse)

18:30 Grill Party (Mathematisches Institut: Backyard)

**Friday, June 27**

9:15–10:30 M. Denker (Göttingen): Ergodic theory V. (Chapter 5 of 'M. Denker: Einführung in die Analysis dynamischer Systeme', English texts will be made available)

10:45–12:00 H. Kriete (Göttingen): Iteration of analytic functions II.

14:00–15:15 Exercise Section Ergodic Theory: M. Denker, S. Kombrink

15:30–16:45 Exercise Section Complex Iteration Theory: H. Kriete, S. Kombrink

**Monday, June 30**

9:15–10:30 B. Stratmann (St. Andrews): Fractal Geometry I.

10:45–12:00 M. Gordin (Steklov Institut St. Petersburg): Torus automorphisms I.

14:00–15:15 Exercise Section Fractal Geometry: S. Kombrink

15:30–16:45 Seminar talks on Dynamical Systems: Y. Pesin (PennState University)

**Tuesday, July 1**

9:15–10:30 M. Gordin (Steklov Institut St. Petersburg): Torus automorphisms II.

10:45–12:00 B. Stratmann (St. Andrews): Fractal Geometry II.

14:00–15:15 Exercise Section Torus automorphisms: S. Kombrink

15:30–16:45 Seminar talk on Fractal Geometry

**Wednesday, July 2**

9:15–10:30 B. Stratmann (St. Andrews): Fractal Geometry III.

10:45–12:00 M. Gordin (Steklov Institut St. Petersburg): Torus automorphisms III.

12:00 Free Afternoon

**Thursday, July 3**

9:15–10:30 M. Gordin (Steklov Institut St. Petersburg): Torus automorphisms IV.

10:45–12:00 B. Stratmann (St. Andrews): Fractal Geometry IV.

14:00–15:15 Exercise Section on Dynamical Systems: S. Kombrink

15:30–16:45 Seminar talks on Fractal Geometry.

**Friday, July 4**

9:15–10:30 B. Stratmann (St. Andrews): Fractal Geometry V.

10:45–12:00 M. Gordin (Steklov Institut St. Petersburg): Torus automorphisms V.

14:00–15:15 Exercise Section on Fractal Geometry: S. Kombrink

15:30–16:45 Seminar talk on Dynamical Systems

**Monday, July 7**

9:15–10:30 J. Kotus (Warsaw): Iteration theory of transcendental functions I.  
10:45–12:00 J. Schmeling (Lund): Smooth dynamical systems I.  
14:00–15:00 Exercise Section Transcendental Functions: J. Kotus.  
15:30–16:45 B. Stratmann (St. Andrews): From angel's to devil's staircase.

**Tuesday, July 8**

9:15–10:30 J. Schmeling (Lund): Smooth dynamical systems II.  
10:45–12:00 J. Kotus (Warsaw): Iteration theory of transcendental functions II.  
14:00–15:15 Exercise Section Smooth Dynamics: S. Kombrink  
15:30–16:45 Seminar talks: S. Senti (Rio de Janeiro).

**Wednesday, July 9**

9:15–10:30 J. Kotus (Warsaw): Iteration theory of transcendental functions III.  
10:45–12:00 J. Schmeling (Lund): Entropy, dimension, and Lyapunov exponents - an interplay between local and global dynamical invariants.  
14:00 Excursion

**Thursday, July 10**

9:15–10:30 J. Schmeling (Lund): Smooth dynamical systems III.  
10:45–12:00 J. Kotus (Warsaw): Iteration theory of transcendental functions IV.  
14:00–15:15 Exercise Section: Transcendental Functions: J. Kotus, ??  
15:30–16:45 Seminar talks: Y. Pesin (PennState University)

**Friday, July 11**

9:15–10:30 J. Kotus (Warsaw): Iteration theory of transcendental functions V.  
10:45–12:00 J. Schmeling (Lund): Smooth dynamical systems V.  
14:00–15:15 Seminar talks: H. Weiss (Georgia Tech)  
15:30–16:45 Exercise Section Smooth Dynamics: S. Kombrink