

FACULTY OF MATHEMATICS AND NATURAL SCIENCES
MATHEMATICS - DISCRETE MATHEMATICS - COMPUTER SCIENCE

COURSES AND SEMINARS / SUMMER TERM 2004

Term time : 19. April — 30. July 2004

Abbreviations :

Gr.HS Math.:	Lecture Hall 241 (Großer Hörsaal), Wegelerstr. 10
Kl.HS Math.:	Lecture Hall 242 (Kleiner Hörsaal), Wegelerstr. 10
ZS:	Lecture Room (Zeichensaal), Room 244, Wegelerstr. 10
HS We8:	Lecture Hall Applied Physics, Room 106, Wegelerstraße 8
WP HS	Lecture Hall Wolfgang-Paul-Hörsaal, Lecture Hall building Physics, Kreuzbergweg
AudiMax	Auditorium Maximum of the Computer Science, Römerstr. 164
Gr.HS Botanik:	Lecture Hall Botanic, Nußallee 4
HS Zoologie:	Lecture Hall Zoology, Poppelsdorfer Schloß
HS Pharmacy:	Lecture Hall Pharmacy, Kreuzbergweg 26
SR We6/501:	Room 501, Wegelerstr. 6
SR We6/610:	Room 610, Wegelerstr. 6
SR We10/251:	Room 251, Wegelerstr. 10
SR A:	Room 11, Beringstr. 4
SR B:	Room 37, Beringstr. 4
SR C:	Room 3, Beringstr. 1
SR D:	Room 13, Meckenheimer Allee 160, acces only via Beringstr. 1
SR E:	Room 3, Meckenheimer Allee 160, acces only via Beringstr. 1
SR F:	Room 2, Meckenheimer Allee 160, acces only via Beringstr. 1
SR G:	Room 627, Lecture Hall Building Physics, Kreuzbergweg 28
HS G, F:	Lecture Halls Nassestr. 2
HS 1, A, ..., D:	Lecture Halls Römerstraße 164
Room A*,N*:	Seminar Rooms Römerstraße 164
MPI:	Lecture Hall MPI for Mathematics, Vivatsgasse 7
u.M.:	and staff
n.V.:	Time or place to be announced in lecture, seminar ect.

MATHEMATICS

Activities before and after term time

The programming languages C/C++ 20.9. - 8.10.04, 3 hrs, 9-12, Gr.HS Math.	K.W. Jacobs
Exercises thereto (in groups) 2 hrs, in the afternoon n.V.	K.W. Jacobs

General Orientation Course

Lecture for fourth semester 1 hrs, Wednesday afternoon, Gr.HS Math.	FS Mathematik and several professors
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Basic Studies: Courses

Analysis II (obligatory for students of mathematics, recommended for students of physics) 4 hrs, Mo, Thu 8-10, WP HS	K.T. Sturm
Exercises thereto 4 hrs, n.V.	K.T. Sturm , A. Hahn
Linear Algebra II (for mathematicians obligatory, for physicists recommended) 4 hrs, Tu 8-10, Fr 10-12, WP HS	M. Rapoport
Exercises thereto 4 hrs, n.V.	M. Rapoport, U. Görtz
Mathematics for Computer Scientists II A Logic and discrete structures 2 hrs, Mo 14-16, HS D	P. Koepke, B. Löwe
Exercises thereto 2 hrs, n.V.	P. Koepke, B. Irrgang, B. Löwe
Mathematics for Computer Scientists II B Analysis 4 hrs, Tu, Thu 9-11, HS D	J. Franke

Exercises thereto 2 hrs, n.V.	J. Franke u.M.
Introduction in the mathematical logic 4 hrs, Mo 10-12, ZS, We 10-12, Kl.HS Mathe.	P. Koepke
Exercises thereto 2 hrs, n.V.	P. Koepke, B. Irrgang U. Hamenstädt
Complex Analysis 4 hrs, We, Fr 8-10, Gr.HS Mathe.	U. Hamenstädt u.M.
Exercises thereto 2hrs, n.V.	J. Schürmann
Algebra I 4 hrs, Tu, Thu 8-10, Kl.HS Math.	J. Schürmann u.M.
Exercises thereto 2 hrs, n.V.	R. Krause
Practical Mathematics II 4 hrs, Tu, Thu 10-12, Gr.HS Math.	R. Krause u.M.
Exercises thereto, 2 hrs, n.V.	M. Schäl
Stochastics 4 hrs, Mo, We 9-11, HS D for Computer Scientists	M. Schäl u.M.
Exercises thereto 2 hrs, Fr 13-15, HS D	

Basic Studies: Seminars

Proseminar Complex Analysis 2 hrs, n.V.	U. Hamenstädt
Proseminar Discrete Optimization n.V., seminarroom	B. Korte, D. Rautenbach, J. Vygen R. Krause
Proseminar numerical methods for time dependent- problems 2 hrs, Tu SR We6/610	M. Rapoport J. Stix M. Schäl
Proseminar Linear Algebra 2 hrs, Tu 16-18, SR C	K.T. Sturm
Proseminar Financial market models 2 hrs, n.V.	
Proseminar on Analysis 2 hrs, n.V.	

Basic Studies: Practica

Practical training (for computer scientists) 4 hrs, n.V.	B. Korte, D. Rautenbach, J. Vygen
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Courses for other Faculties

Modeling and simulation of complex systems from the physical view 2 hrs, We 14.00-15.45, Meckenheimer Allee 176	S. Albeverio, V. Jentsch, D. Stauffer
Model supported Data evaluation in Physiology and Cell-Biology 26.4.04 - 21.5.04, full-time IZMB, room 408/409 (application: Fachschaft Biology)	W. Alt, A. Hahn
Mathematics in the biology II 2 hrs, Mo11-13, HS Zoology	G. Grün
Computer Practical training biology Mo-Fr in the afternoon,14-16 and 16-18, CIP-Pool Soenecken,Kirschallee 3	G. Grün
Mathematics for Scientists II 3 hrs, Mo 12-14, We 14-16, ZS	K. Leschinger
Additional thereto 2 hrs, Fr 13-15, Gr.HS Mathe.	K. Leschinger
Exercises thereto 2 hrs, Mo 18-20, ZS	K. Leschinger

Upper Level Studies for Teacher's Training: Courses

Theory and numerical treatment of ordinary differential equations 4 hrs, Tu, Thu 10-12, Kl.HS Math.	H. Arndt
Exercises thereto 2 hrs, n.V.	H. Arndt
Analysis and Topology 4 hrs, Tu, Thu 8-10, SR B	W. Ballmann
Probability theory II 4 hrs, Mo, We 10-12, Gr.HS Math.	A. Eberle
Exercises thereto 2 hrs, n.V.	A. Eberle u.M.
Examination Course for the teacher's examination 4 hrs, Mo, We 10-12, SR D	J. Frehse
Complex Analysis 4 hrs, We, Fr 8-10, Gr.HS Math.	U. Hamenstädt
Exercise thereto 2 hrs, n.V.	U. Hamenstädt
Classical Differential geometry 2 hrs, We 14-16, SR D	W. Klingenberg
Introduction in the mathematical logic 4 hrs, Mo 10-12, ZS, We 10-12, Kl.HS Math.	P. Koepke

Exercises thereto 2 hrs, n.V.	P. Koepke , B. Irrgang K. Scherer
Functional Analysis II 4 hrs, We, Fr 10-12, ZS	
Exercises thereto 2 hrs, n.V.	W. Pollul, K. Scherer
Number theory and Algebra 2 hrs, Mo 10-12, SR B	A. Wynands
Exercises thereto 2 hrs, Mo 12-14, SR B	A. Wynands

Upper Level Studies for Teacher's Training: Seminars

Seminar on retarded differential equations 2 hrs, Mo 16-18, SR We6/610	H. Arndt
Seminar Differential Geometry A 2 hrs, Tu 18-20, SR C	W. Ballmann
Seminar Differential Geometry B 2 hrs, compact seminar, n.V.	W. Ballmann
Seminar Differential Geometry C 2 hrs, Tu SR C	W. Ballmann
Seminar on Probability 2 hrs, n.V.	A. Eberle
Seminar Algebra 2 hrs, Tu 14-16, ZS	I. Lieb G. Schmalz

Upper Level Studies for Teacher's Training: Courses on Didactics

Number theory and algebra 2 hrs, Mo 10-12, SR B	A. Wynands
Exercises thereto 2 hrs, Mo 12-14, SR B	A. Wynands

Upper Level Studies for Teacher's Training: Seminars on Didactics

Seminar on didactics of stochastics for Sek. II 2 hrs, Thu 14-16, SR B	P. Bungartz
Seminar on didactics of geometry for Sek. I 2 hrs, Tu 8-10, SR D	A. Wynands

Upper Level Studies for Teacher's Training: Practical Studies

Practical school studies for teachers
3 hrs, n.V.

J. Huber,
A. Wynands

Upper Level Studies for Teacher's Training: Colloquia

Colloquium in didactic
Mathematics - Natural Sciences
2 hrs, Mo, 17-19, Kl.HS Math., n.V.

P. Bungartz,
A. Wynands

Diploma Level Studies : Lectures

Modeling and simulation of complex systems from the physical view 2 hrs, We 14.00-15.45, Meckenheimer Allee 176	S. Albeverio, V. Jentsch, D. Stauffer
Stochastic Analysis II 4 hrs, Tu, Thu 12-14, SR We6/501	S. Albeverio
Exercises thereto 2 hrs, n.V.	S. Albeverio u.M.
Partial Differential Equations IV 4 hrs, We, Fr 10-12, SR We6/610	H.W. Alt
Semi-Riemannian Geometry 4 hrs, Tu, Thu 10-12, Kl.HS	B. Ammann
Exercises thereto 2 hrs, n.V.	B. Ammann
Theory and numerical treatment of ordinary differential equations 4 hrs, Tu, Thu 10-12, Kl.HS Math.	H. Arndt
Exercises thereto 2 hrs, n.V.	H. Arndt u.M.
Analysis and Topology 4 hrs, Tu, Thu 8-10, SR B	W. Ballmann
Exercises thereto 2 hrs, n.V.	W. Ballmann u.M.
Topology IV 4 hrs, We, Fr 8-10, SR E	C.-F. Bödigeimer
Optimals Stoppe 2 hrs, We 14-16, Juridicum R. 055	N. Christopeit
Probability theory II 4 hrs, Mo, We 10-12, Gr.HS Math.	A. Eberle
Exercises thereto 2 hrs, n.V.	A. Eberle
Arithmetic Geometry 4 hrs, We 10-12, Fr 14-16, SR E	G. Faltings

Number Theory IV 2 hrs, Thu 14-16, Kl.HS Math.	J. Franke
Mathematische Aspekte der Plastizitätstheorie 4 hrs, Tu, Thu 10-12, SR E	J. Frehse
Scientific Computing IV (Numerical methods for optimization using partial differential equations) 4 hrs, Tu, Thu 10-12, SR We6/610	M. Griebel
Seminar going with it 2 hrs, n.V.	M. Griebel u.M.
Introdcution Spectral-Geometry 2 hrs, We 12-14, SR D	D. Grieser
Partial Differential Equations in the financial mathematics 2 hrs, Tu 8-10, ZS	G. Grün
Exercises thereto 2 hrs, We 12-14, ZS	G. Grün
Shimura-varities 4 hrs, Mo 10-12, SR C, We 16:30-18:00, MPI	G. Harder
Classical Differential Geometry 2 hrs, We 14-16, SR D	W. Klingenberg
Introduction in the mathematical logic 4 hrs, Mo 10-12, ZS, We 10-12, Kl.HS Math.	P. Koepke
Exercises thereto 2 hrs, n.V.	P. Koepke, B. Irrgang
Selected Topics from the Combinatorial Optimization II 2 hrd, Tu 12-14, Gerhard-Konow-Lecture Hall	B. Korte
Numeric of Partial Differential Equations II 4 hrs, Tu, Thu 12-14, Kl.HS Math.	A. Kunoth
Exercises thereto 2 hrs, n.V.	A. Kunoth u.M.
Riemann Surfaces 4 hrs, We, Fr 10-12, SR B	I. Lieb
The Atiyah-Singer Index Theorem II 4 hrs, Tu, Thu 10-12, ZS	W. Müller
Exercises thereto 2 hrs, n.V.	W. Müller u.M.
Partial Differential Equations II 4 hrs, We, Fr 8-10, ZS	F. Otto
Exercises thereto 2 hrs, n.V.	F. Otto u.M.
Mathematical Optimization II 4 hrs, Tu, 14-16, Gerhard-Konow-Lecture Hall	D. Rautenbach
Exercises to Mathematical Optimization II 2 hrs, Fr 12-14, Gerhard-Konow-Lecture Hall	D. Rautenbach, S. Peyer
Functional Analysis II 4 hrs, We, Fr 10-12, ZS	K. Scherer

Exercises thereto 2 hrs, n.V.	W. Pollul, K. Scherer G. Schmalz
Functional Analysis in the Complex Analysis 2 hrs, Tu, Thus 10-12, SR C	
Characteristic classes from vector bundles and singular spaces 2 hrs, We 16-18, SR A, beginning: 28.05.2004	J. Schürmann
Algebraic Topology 4 hrs, Tu, Thu 10-12, SR F	St. Schwede
Exercises thereto 2 hrs, n.V.	St. Schwede
Introduction to knot theory 2 hrs, block lecture, n.V.	A. Stoimenow
Lineare Algebraic Groups 4 hrs, Tu, Thu 8-10, SR F	T. Wedhorn
Exercises thereto 2hrs, n.V.	E. Mierendorff, T. Wedhorn
Geometric group-theory 2 hrs, We 14-16, SR F	A. Vdovina
Geometrical Analysis II 4 hrs, Tu, Thu 8-10, SR A	H. von der Mosel
Discrete Mathematics II 4 hrs, Tu, Thu 16-18, Gerhard-Konow-Lecture-Hall	J. Vygen
Exercises for Discrete Mathematics II 2 hrs, Thu 14-16, Gerhard-Konow-Lecture-Hall	J. Vygen, J. Werber
Introduction Linux 4 hrs, Tu 14-16, SR G	Th. Wörmann
Practical Data Security 2 hrs, Thu 14-16, SR G	Th. Wörmann

Diploma Level Studies : Seminars

Seminar: Stochastic partial differential equations and applications 2 hrs, Mo 12-14, SR We6/501	S. Albeverio
Seminar Numeric partial differential equations (four six semester) 2 hrs, n.V.	H.W. Alt
Seminar 2 hrs, n.V.	B. Ammann
Seminar on retardet differential equations 2 hrs, Mo 16-18, SR We6/610	H. Arndt
Seminar Differential Geometry A 2 hrs, Thu 18-20, SR C	W. Ballmann

Seminar Differential Geometry B 2 hrs, block seminar, n.V.	W. Ballmann
Seminar Differential Geometry C 2 hrs, Tu, 14-16, SR C	W. Ballmann
Seminar Topology B 2 hrs, Tu 14-16, SR E	C.-F. Bödigeimer , B. Richter
Seminar on Probability 2 hrs, n.V.	A. Eberle
Seminar Algebra 2 hrs, n.V.	J. Franke
Seminar Applied Analysis 2 hrs, n.V.	J. Frehse
Seminar Numerical methods for multiscale problems 2 hrs, n.V.	M. Griebel
Seminar Analysis 2 hrs, n.V.	T. Hefer, I. Lieb
Seminar Set Theory 2 hrs, Tu 14-16, SR A	P. Koepke
Seminar Discrete Optimization 2 hrs, Fr,16-18, Seminarraum	B. Korte, D. Rautenbach, J. Vygen
Seminar Numerics for control problems 2 hrs, Thu 14-16, SR We6/610	A. Kunoth
Seminar Algebra 2 hrs, Tu 14-16, ZS	I. Lieb G. Schmalz
Seminar on Algebra, Geometry and Physics 2 hrs, Tu 14 Uhr s.t., auditorium MPI (probably only during June-July)	Y. Manin
Seminar Global Analysis 2 hrs, Tu 14-16, SR D	W. Müller
Seminar Parital Differential Equations II 2 hrs, n.V.	F. Otto
Seminar Semi-simple Algebras 2 hrs, Tu 14-16, SR B	M. Rapoport, I. Vollaard
Seminar insurance and financial models 2 hrs, n.V.	M. Schäl
Seminar about approximation ungleich maessig verteilter Daten durch Radial Basis Functions 2 hrs, n.V.	K. Scherer
Seminar Topology A 2 hrs, Tu 14-16, SR F	St. Schwede, Ch. Ausoni, G. Gaudens
Seminar on Interacting Particle Systems 2 hrs, n.V.	K.T. Sturm
Seminar Geometric Analysis 2 hrs, We 14-16, SR B	H. von der Mosel

Upper Level Studies : Special Seminars

Graduate Seminar on Stochastic 3 hrs, Thu 16-19, SR We6/501	S. Albeverio, A. Eberle M. Schäl, K.T. Sturm
Graduate Seminar on Mathematical Physics 2 hrs, Fr 10-12, SR We6/501	S. Albeverio, H. Gottschalk
Seminar on Financial Engineering (joint with the Project group Financial Engineering at Stiftung caesar) 2 hrs, Thu 14-16, in CAESAR	S. Albeverio, M. Schäl
Diploma Seminar and Special Seminar 2 hrs, n.V.	S. Albeverio
Working Seminar configuration spaces 2 hrs, Fr 14-16, SR We6/501	S. Albeverio, C.-F. Bödigheimer
Graduate Seminar 2 hrs, Thu 16-18, SR E	W. Ballmann, U. Hamenstädt
MPI-Seminar Topology 1 hr, Mo 15-16, Hörsaal MPI	H.-J. Baues
Graduate Seminar Topology 2 hrs, Tu 18-20, SR E	C.-F. Bödigheimer, St. Schwede, B. Richer, Ch. Ausoni, G. Gaudens
Working Seminar Homotopy theory (Wuppertal-Düsseldorf- Bonn) 3 hrs, Thu 15-18, 14-day, SR E	C.-F. Bödigheimer, K. Knapp, E. Ossa, W. Singhof
Seminar for Diploma and PhD Students 2 hrs, n.V	A. Eberle
MPI-Graduate Seminar 1 hrs, Thu 15-16, auditorium MPI	G. Faltings, G. Harder, Y. Manin, D. Zagier
Diploma Seminar 2 hrs, n.V.	J. Franke
Diploma Seminar 2 hrs, n.V.	J. Frehse
Graduate Seminar Selected topics on scientific computing 2 hrs, n.V.	M. Griebel
Diploma Seminar Differential Geometry 2 hrs, Mo 14-16, SR E	U. Hamenstädt

Graduate Seminar Randomized and Approximative Algorithms (RAND) 2 hrs, Mo 11-12, Fr 14-16, SR N327	M. Karpinski
Graduate Seminar Mathematical Logic 2 hrs, Thu 16.30-18.30, SR A	P. Koepke, B. Irrgang, B. Löwe
Diploma Seminar 2 hrs, Thu, 14-16, SR A	P. Koepke
Working Seminar Mathematical Logic 2 hrs, Tu 10-12, SR A	P. Koepke
Diploma- and Graduate Seminar 2 hrs, We 12-14, conference room	B. Korte, D. Rautenbach, J. Vygen
Graduate Seminar Discrete Optimization 2 hrs, Thu 17-19, seminar room (participation only by appointment)	B. Korte, D. Rautenbach, J. Vygen
Graduate Seminar Numerical Simulation in the continuum-mechanic 2 hrs, SR We6/610, n.V.	R. Krause
Graduate Seminar Numerical Analysis 2 hrs, Thu 16-18, SR We6/610	A. Kunoth
Working Seminar Complex Analysis (Bonn/MPI/Wuppertal) 4 hrs, 14-day, Mo 15-18, MPI	I. Lieb, K. Diederich, T. Hefer, G. Schmalz W. Müller
Diploma Seminar 2 hrs, Thu 14-16, SR C	F. Otto
Diploma Seminar 2 hrs, n.V.	F. Otto
Working Seminar Not-Newtonian fluids n.V.	F. Otto
Graduate Seminar Arithmetic Geometry 2 hrs, Thu 16-18, SR B	M. Rapoport
Working Seminar Arithmetic Geometry 2 hrs, Mo 14-16, SR B	M. Rapoport
Diploma Seminar 2 hrs, n.V.	M. Schäl
Seminar for Diploma and Doctoral Students 2 hrs, Mo 14-16, SR We6/501	K.T. Sturm

Diploma Level Studies : Practical Studies

Numerical simulation for molecular dynamics 6 hrs, We 12-14 and 4 hrs n.V. SR We6/610	T. Gerstner, M. Griebel
Practical training (for computer scientists) 4 hrs, n.V.	B. Korte, D. Rautenbach, J. Vygen

Bonn International Graduate School
in Mathematics, Physics and Astronomy
Graduate Studies : Lectures

Stochastic Analysis II 4 hrs, Tu, Thu 12-14, SR We6/501	S. Albeverio
Exercises thereto 2 hrs, n.V.	S. Albeverio u.M.
Analysis and Topology 4 hrs, Tu, Thu 8-10, SR B	W. Ballmann
Topology IV 4 hrs, We, Fr 8-10, SR E	C.-F. Bödigheimer
Arithmetic Geometry 4 hrs, We 10-12, Fr 14-16, SR E	G. Faltings
Scientific Computing IV (Numerical methods for optimization using partial differential equations) 4 hrs, Tu, Thu 10-12, SR We6/610	M. Griebel
Seminar going with it 2 hrs, n.V.	M. Griebel u.M.
Microlocal Analysis 2 hrs, We 12-14, SR D	D. Grieser
Representation theory of Lie groups and applications to mathematical Physics 2 hrs, n.V.	A. Hahn
Shimura-varieties 4 hrs, Mo 10-12, SR C, We 16:30-18:00, MPI	G. Harder
Approximationalgorithms for NP-hard calculation problems and their applications 4 hrs, n.V.	M. Karpinski
Riemann Surfaces 4 hrs, We, Fr 10-12, SR B	I. Lieb
Infinite Games 2 hrs, Thu 10-12, SR A	B. Löwe
The Atiyah-Singer Index Theorem II 4 hrs, Tu, Thu 10-12, ZS	W. Müller
Exercises thereto 2 hrs, n.V.	W. Müller u.M.
Geometric group-theory 2 hrs, We 14-16, SR F	A. Vdovina
Geometric Analysis II 4 hrs, Tu, Thu 8-10, SR A	H. von der Mosel

Bonn International Graduate School
in Mathematics, Physics and Astronomy
Graduate Studies : Seminars

Seminar: Stochastic partial differential equations and applications 2 hrs, Mo 12-14, SR We6/501	S. Albeverio
Graduate Seminar on Stochastics 3 hrs, Thu 16-19, SR We6/501	S. Albeverio, A. Eberle M. Schäl, K.T. Sturm
Graduate Seminar on Mathematical Physics 2 hrs, Fr 10-12, SR We6/501	S. Albeverio, H. Gottschalk
Seminar on Financial Engineering (joint with the Project group Financial Engineering at Stiftung caesar) 2 hrs, Thu 14-16, in CAESAR	S. Albeverio, M. Schäl
Diploma and Special Seminar 2 hrs, n.V.a	S. Albeverio
Working Seminar configuration spaces 2 hrs, Fr 14-16, SR We6/501	S. Albeverio, C.-F. Bödigheimer
Seminar Differential Geometry A 2 hrs, Thu 18-20, SR C	W. Ballmann
Seminar Differential Geometry B 2 hrs, block seminar, n.V.	W. Ballmann
Seminar Differential Geometry C 2 hrs, Tu, 14-16, SR C	W. Ballmann
Graduate Seminar 2 hrs, Thu 16-18, SR E	W. Ballmann, U. Hamenstädt
MPI-Seminar Topology 1 hrs, Mo 15-16, Hörsaal MPI	H.-J. Baues
BIGS/IMPRS-Seminar 2 hrs, Mo 10-12, Plücker-Room	C.-F. Bödigheimer, Ch. Kaiser
Seminar Topology B 2 hrs, Tu 14-16, SR E	C.-F. Bödigheimer , B. Richter
Graduate Seminar Topology 2 hrs, Tu 18-20, SR E	C.-F. Bödigheimer, St. Schwede, B. Richer, Ch. Ausoni, G. Gaudens
Working Seminar Homotopy theory (Wuppertal-Düsseldorf-Bonn) 3 hrs, Thu 15-18, 14-day, SR E	C.-F. Bödigheimer, K. Knapp, E. Ossa, W. Singhof
Seminar for Diploma and PhD Students 2 hrs, n.V	A. Eberle

MPI-Graduate Seminar 1 hrs, Thu 15-16, auditorium MPI	G. Faltings, G. Harder, Y. Manin, D. Zagier J. Frehse
Diploma Seminar 2 hrs, n.V.	
Graduate Seminar Selected topics on Scientific Computing 2 hrs, n.V.	M. Griebel
Graduate Seminar Randomized and Approximative Algorithms (RAND) 3 hrs, n.V.	M. Karpinski
PhD Seminar 2 hrs, n.V.	M. Karpinski
Graduate Seminar Mathematical Logic 2 hrs, Fr 10-12, SR B	P. Koepke , B. Irrgang, B. Löwe P. Koepke
Working Seminar Mathematical Logic 2 hrs, Tu 10-12, SR A	
Seminar Numerics for control problems 2 hrs, Thu 14-16, SR We6/610	A. Kunoth
Working Seminar Complex Analysis (Bonn/MPI/Wuppertal) 4 hrs, 14-day, Mo 15-18, MPI	I. Lieb, K. Diederich, T. Hefer, G. Schmalz
Working Seminar texts to knoweledge and Wissenserwerb 2 hrs, Tu 16-18, SR B	B. Löwe, Th. Müller W. Müller
Seminar Global Analysis 2 hrs, Tu 14-16, SR D	
Seminar Semi-simple Algebras 2 hrs, Tu 14-16, SR B	M. Rapoport, I. Vollaard
Graduate Seminar Arithmetic Geometry 2 hrs, Thu 16-18, SR B	M. Rapoport
Working Seminar Arithmetic Geometry 2 hrs, Mo 14-16, SR B	M. Rapoport
Seminar Topology A 2 hrs, Tu 14-16, SR F	St. Schwede, Ch. Ausoni, G. Gaudens K.T. Sturm
Seminar about interagierende Stochastic Processes 2 hrs, n.V.	
Seminar for Diploma and Doctoral Students 2 hrs, Mo 14-16, SR We6/501	K.T. Sturm
Seminar Geometric Analysis 2 hrs, We 12-14, SR B	H. von der Mosel

Colloquia

Colloquium in didactic Mathematics - Natural Sciences 2 hrs, Mo, 17-19, Kl.HS Math., by appointment	P. Bungartz, A. Wynands
Colloquium of the Bonn International Graduate School BIGS 1 hrs, Fr 15-16, Kl.HS Math.	The Lecturers of Mathematics
Colloquium of the SFB 611 2 hrs, Tu 15.30-18, Kl.HS Math.	The Lecturers of the SFB´
Mathematics Colloquium 1 hrs, Fr 17-18, Kl.HS Math.	The Lecturers of Ma- thematics

DISCRETE MATHEMATICS

All Lectures take place in the research institute for Discrete Mathematics,
Lennéstraße 2 statt.

Lectures

Discrete Mathematics II 4 hrs, Tu, Thu 16-18, Gerhard-Konow-Hörsaal	J. Vygen
Exercises for Discrete Mathematics II 2 hrs, Tu 14-16, Gerhard-Konow-Hörsaal	J. Vygen,, J. Werber
Mathematical Optimization II 4 hrs, Tu, Fr 14-16, Gerhard-Konow-Hörsaal	D. Rautenbach
Exercises for Mathematical Optimization II 2 hrs, Fr 12-14, Gerhard-Konow-Hörsaal	D. Rautenbach, S. Peyer
Selected Topics from the combinatorial optimization 2 hrs, Tu 12-14, Gerhard-Konow-Hörsaal	B. Korte

Seminars and Practics

Proseminar Discrete Optimization n.V., seminarroom	B. Korte, D. Rautenbach, J. Vygen
Seminar Discrete Optimization 2 hrs, Mo 16-18, seminarroom	B. Korte, D. Rautenbach, J. Vygen
Diploma- and Special Seminar 2 hrs, We 12-14, conference room	B. Korte, D. Rautenbach, J. Vygen

Graduate seminar Discrete Optimization
2 hrs, Thu 17-19, seminar room

Practical training (for computer scientists)
for Diploma Level Studies
4 hrs, n.V.

Practical training (for computer scientists)
for Basic Studies
4 hrs, by appointment

B. Korte,
D. Rautenbach,
J. Vygen

B. Korte,
D. Rautenbach,
J. Vygen

B. Korte,
D. Rautenbach,
J. Vygen