

1. Mathematische Arbeitstagung 1957

Die Akten enthalten kein offizielles Programm. Aus der Korrespondenz konnten folgende Vortragsthemen festgestellt werden.

- 1) Vortragsserie A. Grothendieck: Kohärente Garben und verallgemeinerte Riemann-Roch-Hirzebruch-Formel auf algebraischen Mannigfaltigkeiten

- 2) M.F. Atiyah sprach für einen größeren Kreis über das Thema
 "Some examples of complex manifolds"
 Dieser Vortrag von Atiyah wurde in den Bonner Mathematischen
 Schriften Nr. 6 (1958) veröffentlicht.

Das Programm der Tagung sah ungefähr wie folgt aus:

Samstag, den 13.7.:

17.30 Uhr A. Grothendieck

Sonntag, 14.7.:

10.15 Uhr Ausflug mit Dampferfahrt

Montag, 15.7.:

9.30 Uhr A. Grothendieck

15.15 Uhr M.F. Atiyah

17.15 Uhr N. Kuiper

Dienstag, 16.7.:

11.30 Uhr A. Grothendieck

15.15 Uhr F. Hirzebruch

Mittwoch, 17.7.:

11.30 Uhr A. Grothendieck

15.15 Uhr M.F. Atiyah

Freitag, 19.7.:

J. Tits

Samstag, 20.7.:

M.F. Atiyah

H. Grauert

Arbeitstagung 1957

13.-20. Juli 1957

- Atiyah: 1) Non projective algebraic surfaces
2) Chern classes and connections
- Grauert: Real cross sections which are analytic
- Grothendieck: Kohärente Garben und verallgemeinerte Riemann-Roch-Hirzebruch-Formel
auf algebraischen Mannigfaltigkeiten
Vier lange Vorträge
- Kuiper: A generalisation of convexity
- Tits: Geometrie von Ausnahmegruppen
- Hirzebruch: $c_n(\hat{\eta}) = (n-1)!$ generator $H^{2n}(S^{2n}, \mathbb{Z})$

2. Mathematische Arbeitstagung 1958

Die Akten enthalten kein gedrucktes Programm. Die Tagung fand vom 9. bis 16. Juli 1958 statt. Nach privaten Aufzeichnungen haben die folgenden Herren vorgetragen:

S. Abhyankar
R. Bott
H. Grauert
A. Grothendieck
M. Kervaire
J. Milnor
D. Puppe
R. Remmert
J.-P. Serre
K. Stein
R. Thom

Arbeitstagung 1958

9.-16. Juli 1958

Bott:	Homotopy groups of classical groups
Grauert:	Levi's problem
Grothendieck:	Rational sections in fibre spaces
Kervaire:	Parallelisability of spheres
Milnor:	Computations on cobordism
D. Puppe:	Non additive functors and cross effects
Remmert:	Plurisubharmonic functions
Serre:	Intersection theory
Stein:	Komplexe Basen zu holomorphen Abbildungen
Thom:	Combinatoric and C^∞ -manifolds
Hirzebruch:	Applications of Milnor's results

Lecture Notes 1111 (Springer) enthält alle Programme der ersten 25 Arbeitstagungen (1957-1984). Die Akten zu AT 57 und 58 waren sehr unvollständig. N. Kuiper hatte sich aber die angegebenen Themen notiert und teilte sie mir mit Brief vom 22. Juni 1991 mit.

3. Mathematische Arbeitstagung 1959

Die Akten enthalten nur folgende Angaben:

Samstag, den 11.7.:

17.30 - 18.30 Uhr A. Borel: Something on transformation groups

Sonntag, den 12.7.:

10.30 - 11.30 Uhr J.-P. Serre: Fundamental groups

12.00 - 13.00 Uhr D. Puppe: Semisimplicial monoid complexes

Montag, den 13.7.:

9.30 - 10.30 Uhr S. Lang: "...."

11.00 - 12.00 Uhr J. Tits: "...."

Dienstag, den 14.7.:

10.00 - 11.00 Uhr K. Stein: On proper maps

11.30 - 12.30 Uhr J.-P. Serre: Proalgebraic groups

17.00 - 17.30 Uhr Pictures

17.30 - 18.30 Uhr M.F. Atiyah: Fibre homotopy type

Mittwoch, den 15.7.:

10.00 - 11.00 Uhr A. Borel: On torsion in Lie-groups

11.30 - 12.30 Uhr H. Grauert: How to blow down

17.30 - 18.30 Uhr J. Milnor: Scissor and paste arguments

Nach privaten Aufzeichnungen haben außerdem die Herren J.F. Adams, A. Dold und N. Kuiper vorgetragen.

4. Mathematische Arbeitstagung 1960 (11. - 17. Juni)

M.F. Atiyah: Sheaves and vector bundles

J. Milnor: Spherical modifications

S. Smale: Poincaré's conjecture in higher dimensions (I)

M. Kervaire: A manifold without differentiable structures (I)

J. Stallings: Combinatorial homotopy-spheres

S. Smale: Poincaré's conjecture in higher dimensions (II)

M. Kervaire: A manifold without differentiable structure (II)

H. Grauert: Some problems concerning non-compact Kähler manifolds

S. Lang: Cross-sections on algebraic families of curves

Pictures

A. Dold: Representable functors and tensor-products

R. Thom: Singular homology and sheaf theory

R. Remmert: Rigid complex manifolds

J.F. Adams: Old-fashioned topology

A. Borel: Non-singular homology and sheaf theory

J.P. Serre: L-series

N. Kuiper: Curvature of index k

R. Bott: Cauchy formula

M. Hirsch: Embedding theorems

5. Mathematische Arbeitstagung 1961 (16.- 23. Juni)

- A. Borel: Arithmetic subgroups of Lie groups I
-
- J. Milnor: The handle body theorem I
 M.F. Atiyah: Finiteness theorem for compact Lie groups
 J. Stallings: A 5-dimensional example against the Hauptvermutung
-
- A. Borel: Arithmetic subgroups of Lie groups II
 J. Milnor: The handle body theorem II
 J. Milnor: Handle body theorem and results of Wall
-
- A. Andreotti: Vanishing theorems
 M. Kneser: Approximation in algebraic groups
 M. Kneser: Siegel's theorem and Tamagawa numbers
 A. Grothendieck: Schemes of moduli
-
- B. Eckmann: Lusternik-Schnirelmann category
 J. Tits: Flags and Bruhat's theorem
 R. Palais: Conjugacy of compact diffeomorphism groups
-
- J. Kohn: Potential theory on non compact complex manifolds
 A. Grothendieck: Duality theorems in algebraic geometry
 R. Remmert: On homogeneous compact Kähler manifolds
-
- N. Kuiper: Manifolds admitting functions with few critical points
 A. Shapiro: Graded Clifford modules
-
- F. Peterson: Squaring operations in a sphere bundle
 I. Porteous: Homomorphisms of vector bundles

6. Mathematische Arbeitstagung 1962 (13. - 20. Juli)

- S. Lang: On the Nash embedding theorem à la Moser
-
- S. Smale: Stable manifolds of a diffeomorphism
H. Hironaka: Resolution of singularities
R. Swan: The Grothendieck ring of a finite group
-
- M.F. Atiyah: Harmonic spinors
C.T.C. Wall: Classification problems in differential topology
R. Remmert: On homogeneous compact complex manifolds
-
- J. Stallings: Piecewise linear approximation of stable homeomorphisms
M. Kervaire: 2-spheres in 4-manifolds
Pictures
K. Stein: Extension of meromorphic mappings
-
- A. Haefliger: Links
R. Abraham: Transversality of mappings
H. Grauert: Rigid singularities
-
- J. Eells -
J.H. Sampson: Harmonic maps
-
- W. Browder: Homotopy type of differentiable manifolds
M.F. Atiyah: Explanations of my preceding lecture
N. Kuiper: Smoothing problems
-
- A. Kosinski: Piecewise linear functions on combinatorial manifolds
J.C. Moore: Hopf algebras

7. Mathematische Arbeitstagung 1963 (14. - 21. Juni)

- S. Lang: Transcendental numbers
-
- M.F. Atiyah: Elliptic operators
 J. Eells: Deformations of maps
 M. Kervaire: Higher dimensional knots
-
- F. Oort: On automorphisms of varieties
 H. Grauert: On Super-Cocycles
 S. Lang: On Manin's theorem
-
- A. Haefliger: Combinatorial manifolds
 J. Cerf: $\Gamma_4 = 0$
 Pictures
 R. Palais: Integro-differential operators
-
- F. Hirzebruch: Elementary proof of Bott's periodicity theorem
 S. Abhyankar: Jungian singularities
 A. Dold: Obstruction theory for cohomology functors
-
- R. Thom: On generic singularities of envelopes (with slides)
-
- R. Palais: Integro-differential operators (II)
 M.F. Atiyah: Boundary value problems
 N. Kuiper: Smoothing of combinatorial manifolds
-
- R. Palais: Morse theory
 V. Poenaru: Thickening and unknotting
 Á. Császár: Allgemeine Approximationssätze

8. Mathematische Arbeitstagung 1964 (15. - 19. Juni)

- A. Borel: Introduction to automorphic forms
-
- N. Kuiper: The unitary group of Hilbert space is k -connected
 R. Wood: Generalization of Bott's periodicity theorem
 S.S. Chern: Holomorphic vector bundles
-
- W. Haken: Poincaré's conjecture in dimension three
 M. Kneser: Galois cohomology of p -adic linear groups
 W. Browder: Introduction to cobordism theory
-
- D. Gromoll: Exotic spheres and metrics of positive curvature
 J. Eells: Variational theory on manifolds
 Pictures
 R. Sacksteder: Foliated manifolds
-
- K. Jänich: $(X, \text{Fredholm}) = K(X)$
-
- E. Thomas: Enumeration of vector bundles
 J.F. Adams: Some applications of K -theory to homotopy theory
 D. Anderson: Several aspects of K -theory
-
- R. Wood: Pre-Palais
 R. Palais: Index theorem for elliptic boundary problems
 A. Borel: Pseudo-concavity for arithmetic groups
-
- A. Kosinski: Is the Hauptvermutung true for manifolds?
 Shih Weishu: Characteristic classes in K -theory
 R. Palais: The homotopy type of some infinite dimensional manifolds

9. Mathematische Arbeitstagung 1965 (19. - 25. Juni)

- M.F. Atiyah: Elliptic operators on manifolds and generalized Lefschetz fixed point theorem I
-
- A. Douady: An hour of counterexamples
M.F. Atiyah: Elliptic operators on manifolds and generalized Lefschetz fixed point theorem II
S. Lang: Division points on curves
-
- W. Klingenberg: Closed geodesics
R. Thom: Topological models for morphogenesis in biology
H. Hironaka: Projectiveness criterions of Kleiman
-
- A. Grothendieck: Riemann-Roch I
J.P. Serre: Formal groups
-
- A. Grothendieck: Riemann-Roch II
J. Milnor: Projective class groups in topology
N. Kuiper: Piecewise linear microbundles are bundles
-
- G. Harder: Galois cohomology of semi-simple groups
I.G. Macdonald: Spherical functions on p-adic groups
D. Epstein: Duality theorems for abelian schemes
-
- A. Van de Ven: Almost complex manifolds
D. Husemoller: Cohomology theory
G. Segal: Equivariant K-theory
R. Palais: Symplectic manifolds (im Rahmen des Mathematischen Kolloquiums)

10. Mathematische Arbeitstagung 1966 (16. - 22. Juni)

M.F. Atiyah: Global aspects of elliptic operators

H. Grauert: Non-archimedean analysis

J. Eells: Deformations of structures

M. Kervaire: Congruence subgroups after H. Bass

J.P. Serre: l -adic Galois groups

L. Siebenmann: Applications of Wall's invariant

S. Smale: On the structure of diffeomorphisms

M.F. Atiyah: Index theorem (I)

J. Tate: p -adic Galois representations

R. Bott: Vector fields and characteristic numbers

M.F. Atiyah: Index theorem (II)

F. Hirzebruch: Exotic spheres and singularities

S. Smale: Group constructions in the theory of diffeomorphisms

A. Borel: Rigidity of arithmetic groups

J. Milnor: Singularities of hypersurfaces

J.F. Adams: Mahowald's result on the J -homomorphism

A. Van de Ven: Chern numbers of (almost-) complex surfaces

D. Sullivan: Manifolds with singularities .

11. Mathematische Arbeitstagung 1967 (16. - 22. Juni)

- M.F. Atiyah: Hyperbolic equations and algebraic geometry
-
- J.P. Serre: Congruence subgroups and Coxeter hyperbolic groups
 I. Šafarevič: Simple Lie algebras in finite characteristics
 D.V. Anosov: Dynamical systems
-
- N. Kuiper: Algebraic equations for combinatorial 8-manifolds
 J.W.S. Cassels: Definite functions as sums of squares
 M. Postnikov: K-theory for infinite complexes
-
- I. Šafarevič: Algebraic analogue of uniformisation
 D.V. Anosov: Asymptotic theory of some partial differential equations
 M. Karoubi: Real and complex K-theory
-
- H. Levine: Extending immersions of the circle in the plane
 B. Venkov: Cohomology of some groups
-
- J.F. Adams: Complex cobordism
 A. Brumer: p-adic L-functions
 J.I. Manin: On rational surfaces
-
- R. Abraham: Generic properties of Hamiltonian systems
 T. Matsumoto: Congruence subgroups and central group extensions
 K. Jänich: Report on part of the Tulane Conference

12. Mathematische Arbeitstagung 1969 (13. - 20. Juni)

N. Kuiper: Stable homeomorphisms and the annulus conjecture,
Kirby's results

P.A. Griffiths: Algebraic cycles
J.F. Adams: Quillen's work on cobordism and formal groups
R. Bott: Topological obstructions for foliations

W.-C. Hsiang: Manifolds with fundamental group \mathbb{Z}^k
W. Schmid: Langlands' conjecture
P. Deligne: Hodge theory of singular varieties

A. Borel: Picard-Lefschetz transformations and arithmetic groups
F. Hirzebruch: S^1 -actions on manifolds

L. Siebenmann: Topological manifolds and related examples
J. Mather: Stratification of a generic mapping
D. Quillen: Homotopy theory of schemes

J. Tate: K_2 of global fields
R. Thom: Topological linguistics
D. Gromoll: Periodic geodesics
R. Gardner: Geometric solution of the Cauchy Problem and a generalization of characteristics

C.T.C. Wall: Integrable almost piecewise linear structures
J. Eells: Topology of Banach manifolds
G. Harder: A remark on Tamagawa numbers

A. Bak: Quadratic modules and unitary K-theory
A. Weinstein: Symplectic manifolds
W.C. Hsiang: Falsity of the s-cobordism theorem for lower dimensional manifolds

13. Mathematische Arbeitstagung 1970 (12. - 19. Juni)

- C.T.C. Wall: A survey of free actions on spheres
-
- S. Lang: Transcendental mappings
 R. Kirby: Triangulation of manifolds
 M. Kervaire: Projective class groups and class field theory
-
- S. Hildebrandt: Boundary values in capillarities
 D. Burghelea: Homotopy groups of spaces of diffeomorphisms
 T. tom Dieck: Bordism of commuting involutions
-
- S. Smale: Report on work of Moulton (celestial mechanics)
 D.V. Anosov: New examples of smooth ergodic systems
-
- R. Kiehl: Satz von Grauert (direkte Bilder von Garben)
 T.A. Springer: Discrete series of finite Chevalley groups
 E. Brieskorn: Singular elements in simple Lie groups
-
- R. Takens: Partially hyperbolic fixed points
 H. Bass: The Milnor ring of a field
 J. Eells: Fredholm structures and Wiener integrals
-
- J.-L. Verdier: Serre's duality theorem
 H.V. Pittie: The representation ring of compact Lie groups
 F. Waldhausen: Attempt on higher Whitehead groups
-
- R. Gardner: Rigidity and uniqueness of convex hypersurfaces
 U. Koschorke: Pseudo-kompakte Teilmengen unendlich dimensionaler Mannigfaltigkeiten

14. Mathematische Arbeitstagung 1971 (10. - 14. Juni)

- M.F. Atiyah: The Riemann-Roch theorem for multihomogeneous varieties
-
- W. Schmid: The singularities of Griffith's period mapping
 I.G. Macdonald: Affine root systems and theta-identities
 P. Deligne: The Weil conjecture for surfaces of degree 4 in P_3
-
- S. Lang: Frobenius automorphisms of modular function fields
 G. Lusztig: The Novikov higher signatures and families of elliptic operators
 F. Waldhausen: Applications of infinite simple homotopy types
-
- G. Segal: Algebraic K-theory
 C.T.C. Wall: Quadratic forms
 H. Grauert: Deformation of singularities
-
- D. Mumford: Degeneration of curves and non-archimedean uniformisation
 R. Bott: The classifying space of foliations
-
- R. Thom: The four vertex theorem
 W.-Ch. Hsiang: A reduction theorem of differentiable actions
 J. Tits: Free groups in linear groups
-
- M. Artin: Lüroth's theorem
 E. Bombieri: On pluricanonical models of algebraic surfaces
 A.I. Kostrikin: Deformation of Lie algebras
-
- R. Langlands: On arithmetically equivalent representations
 J. Simons: Geometric invariants related to characteristic classes
 K. Shiohama: On the differentiable "pinching problem"

15. Mathematische Arbeitstagung 1972 (09. - 15. Juni)

- W. Schmid: Degeneration of algebraic manifolds
-
- M. Karoubi: Hermitian K-theory
- T.A. Springer: Steinberg functions on a finite Lie algebra
- J. Cheeger: Manifolds with non-negative curvature
-
- T. Petrie: Real algebraic actions on projective spaces
- D.I. Lieberman: n^{th} order de Rham theory
- E. Winkelkemper: Open book decomposition of manifolds
-
- A. Bak: Computation of surgery obstruction groups
-
- A. Michenko: On infinite dimensional representations of discrete groups
- M.F. Atiyah: Invariants of odd dimensional manifolds
- S. Lichtenbaum: Values of zeta-functions at negative integers
-
- F.J. Almgren: Geometric measure theory and elliptic variational problems
- M. Platonov: Conjectures of Artin and Kneser-Tits
- J.W. Robbin: Topological classification of linear endomorphisms of \mathbb{R}^n
- K. Ueno: Classifications of algebraic varieties
-
- M. Miranda: Hypersurfaces in \mathbb{R}^n of prescribed mean curvature
- M. Shub: Dynamical systems, filtrations and entropy
- J.A. Shaneson: Codimension -2 problems and homology equivalent manifolds

16. Mathematische Arbeitstagung 1974 (12. - 18. Juni)

I.M. Singer: η -invariant and its relation to real quadratic fields

H. Bass: Russian progress on Serre's problem

N. A'Campo: Resolution and deformation of plane curve singularities

J.-P. Serre: Modular forms and Galois representations

J. Eells: Introduction to stochastic Riemannian geometry

R. Howe: The Weyl representation over finite fields

G. Lusztig: Some discrete series representations of finite classical groups

S. Kobayashi -

S. Lang: Hyperbolic geometry and diophantine problems

D. Epstein: Foliations with compact leaves

D. Quillen: Finite generation of K-groups in the function field case

D. Zagier: Modular forms in one and two variables

G. Harder: Betti numbers of modular spaces of vector bundles

W. Schmid: On the discrete series of semi-simple Lie groups

E. Ruh: Equivariant pinching problems

K. Ueno: Canonical bundle formula for certain fibre spaces and algebraic varieties of parabolic type

M.F. Atiyah: Asymptotic properties of eigenvalues in Riemannian geometry

C.T.C. Wall: Norms of units in group rings

S. Lang: Fermat curves and units in the modular function field

17. Mathematische Arbeitstagung 1975 (21. - 27. Juni)

- M.F. Atiyah: Algebras of operators in Hilbert space and K-theory
-
- J. Moser: Isospectral deformations
 G. Lusztig: Macdonald's conjecture on discrete series of finite Chevalley groups
 B. Kostant: The η -function formula of Macdonald
-
- R. MacPherson: Gelfand's formula for the first Pontrjagin class
 W. Ziller: Closed geodesics and homotopy symmetric spaces
 J.-P. Serre: Lower bounds of discriminants of number fields
-
- T. tom Dieck: Burnside ring of a compact Lie group
-
- J.C. Jantzen: Modular representations of semi simple groups
 W. Schmid: Blattner's conjecture on the discrete series of semi simple real Lie groups
 A.N. Varchenko: Newton diagrams of singularities
-
- A.I. Kostrikin: Tannaka-Artin's conjecture on the multiplicative group of division algebras
 B. Mazur: Rational points on modular curves
 W. Casselman: The π -cohomology of representations of semi simple Lie groups
-
- A.N. Parshin: Residues and symbols
 J.H.M. Steenbrink: Mixed Hodge structure on vanishing cycles
 E. Calabi: Nearly flat triangulations of Riemannian manifolds

18. Mathematische Arbeitstagung 1977 (21. - 27. Juni)

M.F. Atiyah: The classical geometry of Yang-Mills Fields (I)

J.-P. Serre: Function field analogue of $SL_2(\mathbb{Z})$

H.W. Lenstra: Euclidean number fields

A. Tromba: Recent progress in Plateau's problem

M.F. Atiyah: The classical geometry of Yang-Mills fields (II)

M. Gromov: Hyperbolicity in dynamical systems

P. Griffiths: Application of residues to geometry

M. Berger: Wiedersehensmannigfaltigkeiten
(Conjecture of Blaschke)

A. Van de Ven: Inequalities for Chern numbers of surfaces

G. Zuckerman: Representations of semi simple lie groups

Ch. Thomas: Space form problems

R. Finn: Surface tension phenomena and geometry

J.-P. Bourguignon -
C.L. Terng: Solution of the Calabi conjecture

C. Procesi: Ideals of determinants and Young diagrams

F. Sakai: Kondaira dimension of open complex manifolds

A. Andreotti: Domain of regularity of solutions of partial
differential equations

19. Mathematische Arbeitstagung 1978 (16. - 23. Juni)

- M.F. Atiyah: Yang-Mills instantons and algebraic geometry
-
- E. Calabi: SU(n)- and Sp(n)-manifolds
H. Jacquet: From GL(2) to GL(3)
J.-P. Bourguignon: Differential-geometry of the Yang-Mills equation
-
- J. Eells: Holomorphic and harmonic maps of surfaces
J. Steenbrink: Non-rationality of the quartic threefold
B. Gross: The Chowla-Selberg formula
-
- B. Mazur: Rational points on elliptic curves and congruences of L-series
D. Burghelea: Computation of homotopy groups of diffeomorphism groups of compact manifolds
P. Schweitzer: Residues of real foliation singularities
-
- T. Banchoff: The fourth dimension and computer animated geometry
J. Milnor: Volume of hyperbolic manifolds
-
- K. Ueno: Birational geometry of fibre spaces
F. Adams: Finite H-spaces and algebras over the Steenrod Algebra
N. Hitchin: Twistor spaces
-
- A. Todorov: Surfaces with $p_g = 1$ and $K^2 = 1$
P. Baum: K-homology and Riemann-Roch
J. Brüning: Representations of compact Lie groups and elliptic operators
-
- I. Piatetski-Shapiro: Automorphic forms on the metaplectic group
F. Waldhausen: Algebraic K-theory of topological spaces

20. Mathematische Arbeitstagung 1979 (06. - 16. Juni)

- J. Tits: On Leech's lattice and sporadic groups
-
- F. Adams: G. Segal's Burnside ring conjecture
 F. Bogomolov: Converse Galois problems for some Chevalley groups
 Wang Yuan: Goldbach problem
-
- D. Vogan: Size of representations
 L. Berard-Bergery: A new example of Einstein manifolds
-
- V. Kac: Infinite dimensional Lie algebras
 G. Mostow: New negatively curved surfaces
 G. Lusztig: Representations of Hecke algebras
-
- B. Gross: Conjectures of Stark and Tate
 Wu-chung Hsiang: Topological space form problems
 E. Looijenga: Singularities and generalized root systems
 M.F. Vigneras: Isospectral but not isometric Riemannian surfaces
-
- A.N. Parshin: Zeta functions and K-theory
 Min-Oo: Curvature deformations relating to the Yang-Mills fields
 G. Harder: Cohomology and values of L-functions
-
- A. Todorov: Moduli of Kählerian K3-surfaces
 R.P. Langlands: On orbital integrals for real groups
 J.-P. Serre: The monster game

21. Mathematische Arbeitstagung 1980 (13. - 19. Juni)

- M.F. Atiyah: Vector Bundles on Riemann Surfaces
-
- A. Katok: Counting closed geodesics on surfaces
 R. Bott: Equivariant Morse theory
 K. Ribet: Mazur and Wiles (cyclotomic fields)
-
- A. Borel: L^2 -cohomology of arithmetic groups
 I. Bakelman: Topological methods in the theory of
 Monge-Ampère equations
 H. King: Topology of real algebraic varieties
-
- J. Milnor: Groups of polynomial growth (Gromov's work)
-
- Y.-t. Siu: Andreotti-Fraenkel conjecture
 M. Artin: Mori's work
 B. Gross: L-series of elliptic curves
-
- F. Takens: Turbulence and strange attractors
 W. Ziller: Periodic motions in Hamiltonian systems
 P. Slodowy: Simple groups over $\mathbb{C}((t))$ and simple-elliptic
 singularities
-
- S. Kudla: Geodesic cycles and the Weil representation
 D. Epstein: A theorem of Thurston with applications to
 group actions and foliations
 F. Adams: Recent work on homotopy theory

22. Mathematische Arbeitstagung 1981 (12. - 18. Juni)

- M.F. Atiyah: Convexity and commuting Hamiltonians
-
- B. Mazur: Abelian extensions of \mathbb{Q}
- D. De Turck: "Manifold" of Ricci curvatures
- B. Malgrange: Vanishing cohomology and Bernstein polynomials
-
- D. Mostow: Complex reflection groups
- W. Fulton: Complex projective geometry (varieties of small codimension)
- R. MacPherson: Intersection homology and nilpotent orbits
-
- J. Tate: Stark's conjecture about L-series at $s = 0$
- W. Meyer: Gromov's work on Betti numbers
- K. Diederich: Complete Kähler domains
-
- W.D. Neumann: Thurston's work
-
- A. Derdzinski: Einstein metrics
- S. Zucker: L^2 -cohomology of arithmetic groups
- A. Wiles: Explicit constructions of class fields
-
- J. Duistermaat: Asymptotics of spherical functions
- M-F. Vigneras: Works of Waldspurger (automorphic forms of halfintegral weight)
- R. Schultz: Topological similarity of representations

23. Mathematische Arbeitstagung 1982 (15. - 21. Juni)

- M.F. Atiyah: The Yang-Mills equations and the structure of 4-manifolds
-
- D. Quillen: Determinants of $\bar{\partial}$ -operators
 J. Coates: Heights on elliptic curves
 D. Vogan: Representations with cohomology
-
- R.S. Palais: Hamilton's work on positively curved 3-manifolds
 R. Hartshorne: Space curves
 M. Berger: Gromov's filling of Riemannian manifolds
-
- J. Bernstein: Beilinson-Bernstein construction
-
- S.T. Yau: Manifolds with positive scalar curvature
 S. Mori: Rational curves in 3-folds and applications
 G. Harder: Tate conjecture for Hilbert modular surfaces
-
- L. Siebenmann: M. Freedman's work on 4-dimensional manifolds
 S.J. Patterson: Limit sets of Kleinian groups
 D. Epstein: On Chapter I of Thurston
-
- S.S. Chern: Web geometry
 B. Mazur: \mathbb{Z}_p -extensions and heights
 F. Adams: Carisson's prove of Segal's Burnside ring conjecture

24. Mathematische Arbeitstagung 1983 (16. - 22. Juni)

- M.F. Atiyah: Instantons, monopoles and rational maps
-
- G. Faltings: The conjectures of Tate and Mordell I
 B. Gross: Heights and L-series I (On the conjecture of Birch and Swinnerton-Dyer)
 S.W. Donaldson: Stable holomorphic bundles and curvature
-
- C. Procesi: The solution of the Schottky problem
 (Characterization of Jacobian varieties)
 D. Quillen: Cyclic homology and Hochschild-homology
 N. Hingston: Equivariant Morse theory
-
- D. Zagier: Heights and L-series II (and applications to the class number problem)
 D. McDuff: The Arnold conjecture on symplectic fixed points (after Conley and Zehnder)
 G. Faltings: The conjectures of Tate and Mordell II (Moduli spaces of abelian varieties)
-
- J. Milnor: Monotonicity for the entropy of quadratic maps
 E. Friedlander: On the conjectures of Lichtenbaum and Quillen (after Suslin and others)
 D. Quillen: Arithmetic surfaces and analytic torsion
 B. Moonen: Polar multiplicities and curvature integrals
-
- D. Eisenbud: Special divisors on curves and Kodaira dimension of the moduli space (mostly after Mumford and Harris and Gieseker)
 F. Kirwan: Cohomology of quotients in algebraic and symplectic geometry
 W. Tutschke: Generalizations of the Cauchy-Kowalewski and Holmgren theorems to the case of generalized analytic functions
 G. Wüstholz: Group varieties and transcendence

25. Mathematische Arbeitstagung 1984 (15. - 22. Juni)

- J. Tits: Groups and group functors attached to Kac-Moody data
-
- M. Atiyah: The eigenvalues of the Dirac operator
 A. Connes: K-theory, cyclic cohomology and operator algebras
 G. Segal: Loop groups
-
- G. Harder: Special values of Hecke L-functions and abelian integrals
 H. Wente: A counterexample in 3-space to a conjecture of H. Hopf
 G. Faltings: Compactification of A_g/\mathbb{Z}
 C.T.C. Wall: Geometric structures and algebraic surfaces
-
- J. Harris: Recent work on Hodge structures
-
- Y.T. Siu: Some recent results in complex manifold theory related to vanishing theorems for the semipositive case
 W. Schmid: Recent progress in representation theory
 W. Ballmann: Manifolds of non-positive curvature
 B. Mazur -
 Ch. Soulé: Conjectures of Beilinson on L-functions and K-theory
-
- H.-O. Peitgen: Morphology of Julia sets
 S.S. Chern: Some applications of the method of moving frames
 S. Lang: Vojta's conjecture on heights and Green's function
 S. Donaldson: 4-manifolds with indefinite intersection form
-
- D. Zagier: Modular points, modular curves, modular surfaces and modular forms
 G. van der Geer: Schottky's problem
 R. Bryant: G_2 and Spin(7)-holonomy
 S. Wolpert: Homology of Teichmüller spaces
-
- J.-P. Serre: l-adic representations
 M.F. Atiyah: On Manin's manuscript "New dimensions in geometry"

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Programm der Mathematischen Arbeitstagung 1986 (I)

=====

Freitag, den 13.6.1986

16.00 - 17.00 Uhr M.F. ATIYAH: The logarithm of the Dedekind
 η -function

Samstag, den 14.6.1986

10.00 - 11.00 Uhr CH. SOULÉ: Higher dimensional Arakelov
theory

11.45 - 12.45 Uhr M. KRECK: 7-dimensional Einstein manifolds with
 $SU(3) \times SU(2) \times U(1)$ - symmetry

17.00 - 18.00 Uhr K. FUKAYA: Collapsing and eigenvalues

Sonntag, den 15.6.1986

9.45 - 10.00 Uhr Festlegung der nächsten Vorträge

10.00 - 11.00 Uhr A. FLOER: Holomorphic curves and fixed points
of symplectic maps

11.45 - 12.45 Uhr P. KRONHEIMER: Gravitational instantons and
Kleinian singularities

17.00 - 18.00 Uhr G. FALTINGS: Hodge-Tate structures

Die Vorträge finden alle im "Großen Hörsaal", Wegelerstraße 10, statt.

Erfrischungspausen mit Tee: Samstag und Sonntag 11.00 - 11.30 Uhr vor
dem Großen Hörsaal und ab 15.00 Uhr im Max-Planck-Institut.

Post, die nicht ans MPI adressiert ist, liegt während der Teepausen
vor dem Großen Hörsaal aus. Alle Teilnehmer mögen sich bitte in die
Teilnehmerlisten eintragen. *Teilnehmerlisten* und *Informationen* liegen
vor dem Großen Hörsaal aus.

Für Diskussionen stehen das MPI, der *Diskussionsraum* Beringstraße 1
und der *Sitzungssaal* (Raum 4) Beringstraße 4 zur Verfügung.
Tischtennis im Keller des Hauses Beringstraße 4.

Den *Tagungsbeitrag* bitte an *Frau Karge* bezahlen (Samstag und Sonntag
13.00 - 17.00 Uhr im Empfang des MPI).

Alle *Tagungsteilnehmer* mit ihren Damen oder Herren sind herzlich zum
Empfang des Rektors eingeladen. Zeit: Freitag, 13.6.1986, 20.00 Uhr.
Ort: *Festsaal* der Universität, Hauptgebäude; Eingang von der Straße
"Am Hof" durch das Tor gegenüber Buchhandlung Röhrscheid.

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Programm der Mathematischen Arbeitstagung 1986 (II)
=====

Montag, den 16.6.1986

10.30 - 11.30 Uhr M. KERVAIRE: Jones's knot polynomials

13.00 Uhr Schiffsausflug nach Bad Hönningen. Abfahrt
pünktlich um 13.00 Uhr mit Motorschiff
"Carmen Silva" am Alten Zoll. Rückkehr
ca. 19.30 Uhr.

Dienstag, den 17.6.1986

10.00 - 10.15 Uhr Festlegung der nächsten Vorträge

10.15 - 11.15 Uhr K. RIBET: Modular forms, ℓ -adic representations
and Fermat's last theorem

11.45 - 12.45 Uhr M.F. ATIYAH: Donaldson invariants for
4-manifolds

15.30 - 16.30 Uhr F.A. BOGOMOLOV: Rationality problems,
(informal talk) stable cohomology

17.00 - 18.00 Uhr U. PINKALL: New minimal surfaces in S^3

Mittwoch, den 18.6.1986

10.15 - 11.15 Uhr H. KNÖRRER: Fermi curves and density of states

Die Vorträge finden alle im "Großen Hörsaal", Wegelerstr. 10, statt.
Erfrischungspausen mit Tee: Dienstag 11.00 - 11.30 Uhr und 16.30 -
17.00 Uhr vor dem Großen Hörsaal.

Post, die nicht ans MPI adressiert ist, liegt während der Teepausen
vor dem Großen Hörsaal aus.

Alle Tagungsteilnehmer mögen sich bitte in die Teilnehmerlisten
eintragen. Teilnehmerlisten und Informationen liegen vor dem Großen
Hörsaal aus.

Den Tagungsbeitrag bitte an Frau Karge bezahlen (Dienstag von 13.00
- 17.00 Uhr im Empfang des MPI).

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Programm der Mathematischen Arbeitstagung 1986 (III)

=====

Mittwoch, den 18.6.1986

- 16.30 - 17.30 Uhr G. WÜSTHOLZ: Baker's method and effectivity
- 17.45 - 18.45 Uhr R. LEE: Finite group actions on the complex projective plane

Donnerstag, den 19.6.1986

- 10.15 - 11.15 Uhr J. BRÜNING: L^2 -index theorems for regular singular operators
- 12.00 - 13.00 Uhr H. ESNAULT: Characteristic classes of flat bundles
- 17.00 - 18.00 Uhr F. HIRZEBRUCH: 3-folds with $c_1 = 0$

Freitag, den 20.6.1986

- 12.30 - 13.30 Uhr M. REID: Progress in 3-folds
(Sondervortrag)
- 16.30 - 17.30 Uhr H. KURKE: Modulräume von Vektor-Bündeln
(Kolloquiumsvortrag)

Der *Sondervortrag* findet im Seminarraum des MPI für Mathematik statt. Der *Kolloquiumsvortrag* findet im "kleinen Hörsaal", Wegelerstr. 10 statt. Alle anderen *Vorträge* finden im "Großen Hörsaal" statt.

Post, die nicht ans MPI adressiert ist, liegt während der Teepausen aus.

Erfrischungspausen mit Tee: Mittwoch, 16.00-16.30 vor dem Großen Hörsaal. Donnerstag 11.15 - 11.45 vor dem Großen Hörsaal, ab 15.00 Uhr im MPI. Freitag, 16.00 - 16.30 Uhr vor dem Großen Hörsaal.

Informationen liegen vor dem Großen Hörsaal aus.

Den *Tagungsbeitrag* bitte an Frau Karge bezahlen (Mittwoch und Donnerstag von 13.00 - 17.00 in Raum 20-4 des MPI).

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Programm der Mathematischen Arbeitstagung 1987 (I)
=====

Freitag, den 12.6.1987

16.30 - 17.30 Uhr M.F. ATIYAH: Invariants of 3- and 4-dimensional manifolds

Samstag, den 13.6.1987

10.00 - 11.00 Uhr J. TITS: Monster and moonshine

11.45 - 12.45 Uhr N. SMALE: Bridge principle for minimal submanifolds

17.00 - 18.00 Uhr A. FLOER: Instantons and homology 3-spheres

Sonntag, den 14.6.1987

10.00 - 10.15 Uhr Festlegung der nächsten Vorträge

10.15 - 11.15 Uhr F. HIRZEBRUCH: Introduction to elliptic genera

12.00 - 13.00 Uhr L. ILLUSIE: Frobenius and the degeneration of the Hodge spectral sequence

17.00 - 18.00 Uhr Th. FRIEDRICH: Riemannian manifolds with small eigenvalue of the Dirac operator

Die Vorträge finden alle im "Großen Hörsaal", Wegelerstraße 10, statt.

Erfrischungspausen mit Tee: Samstag 11.00 - 11.45 Uhr und 16.00 - 17.00 Uhr, Sonntag 11.15 - 12.00 Uhr und 16.00 - 17.00 Uhr, vor dem Großen Hörsaal.

Post liegt während der Teepausen aus. Alle Teilnehmer mögen sich bitte in die *Teilnehmerlisten* eintragen. Teilnehmerlisten und *Informationen* liegen vor dem Großen Hörsaal aus.

Für *Diskussionen* stehen das Haus Wegelerstraße 10 und das Max-Planck-Institut zur Verfügung.

Den *Tagungsbeitrag* bitte während der Teepausen an Herrn *Winter* bezahlen.

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Programm der Mathematischen Arbeitstagung 1987 (II)
=====

Montag, den 15.6.1987

- 9.45 - 10.45 Uhr D. EPSTEIN: Finite state automata, groups
and hyperbolic geometry
- 13.00 Uhr Schiffsausflug nach Bad Breisig. Abfahrt pünktlich
um 13.00 Uhr mit Motorschiff "Carmen Silva", Lande-
brücke der Personenschiffahrt "Siebengebirge" (nahe
Alter Zoll). Rückkehr ca. 19.30 Uhr

Dienstag, den 16.6.1987

- 10.00 - 10.15 Uhr Festlegung der nächsten Vorträge
- 10.15 - 11.15 Uhr A. WILES: On the Tate-Safarevic group
- 12.00 - 13.00 Uhr D. BURGHELEA: Free loop spaces and automorphisms
of manifolds
- 17.00 - 18.00 Uhr D. ZAGIER: Elliptic curves and Fermat's
last theorem

Mittwoch, den 17.6.1987

- 10.00 - 11.00 Uhr Y. MIYAOKA: The structure of algebraic threefolds

Die Vorträge finden alle im "Großen Hörsaal", Wegelerstraße 10, statt.
Erfrischungspausen mit Tee: Dienstag, 11.15 - 12.00 Uhr vor dem Großen
Hörsaal, 15.30 - 16.30 Uhr im Max-Planck-Institut.

Post liegt während der Teepausen vor dem Großen Hörsaal aus.

Alle Tagungsteilnehmer mögen sich bitte in die *Teilnehmerlisten* eintragen.
Teilnehmerlisten und Informationen liegen vor dem Großen Hörsaal aus.

Den *Tagungsbeitrag* bitte während der Teepausen an *Herrn Winter* bezahlen.

Alle Tagungsteilnehmer mit ihren Damen oder Herren sind herzlich zum
Empfang des Rektors eingeladen. Zeit: Dienstag, 16.6.1987, 20.00 Uhr.
Ort: Festsaal der Universität, Hauptgebäude; Eingang von der Straße
"Am Hof" durch das Tor gegenüber Buchhandlung Röhrscheid.

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Programm der Mathematischen Arbeitstagung 1987 (III)
=====

Mittwoch, den 17.6.1987

11.45 - 12.45 Uhr

M. SAITO: Mixed Hodge modules

17.00 - 18.00 Uhr

St. RALLIS: L-functions and oscillator
representations

Donnerstag, den 18.6.1987

10.00 - 11.00 Uhr

D. GROMOLL: Lower curvature bounds and
topological finiteness

11.45 - 12.45 Uhr

K. UHLENBECK: Moment maps in infinite
dimensions

17.00 - 18.00 Uhr

Th. ZINK: Points on Shimura varieties
and Dieudonné modules

Freitag, den 19.6.1987

16.30 - 17.30 Uhr

B. MEEKS: The geometry of constant mean curvature
surfaces and of minimal surfaces
(Kolloquiumsvortrag)

Der Kolloquiumsvortrag findet im "Kleinen Hörsaal", Wegelerstr. 10, statt.
Alle anderen Vorträge finden im "Großen Hörsaal" statt.

Post liegt während der Teepausen aus.

Erfrischungspausen mit Tee: Mittwoch und Donnerstag, 11.00 - 11.45 Uhr und
16.00 - 17.00 Uhr vor dem Großen Hörsaal.

Informationen liegen vor dem Großen Hörsaal aus.

Den Tagungsbeitrag bitte während der Teepausen an Herrn Winter bezahlen.

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Programm der Mathematischen Arbeitstagung 1988 (I)
=====

Donnerstag, den 16.6.1988

16.00 - 17.00 Uhr M.F. ATIYAH: Topological quantum field theory

Freitag, den 17.6.1988

10.15 - 11.15 Uhr A. SUSLIN: K-theory of fields

12.00 - 13.00 Uhr G. MARGULIS: Minima of indefinite quadratic forms

17.00 - 18.00 Uhr A. PARSHIN: Inequalities for algebraic surfaces and connections with number theory

Samstag, den 18.6.1988

10.00 - 10.15 Uhr Festlegung der nächsten Vorträge

10.15 - 11.15 Uhr J. BISMUT: Quillen metrics and degenerating Riemann surfaces

12.00 - 13.00 Uhr K. RUBIN: Finiteness of the Shafarevich group (Kolyvagin's work)

17.00 - 18.00 Uhr R. THOM: Animal organization as a stratified space

Die Vorträge finden alle im "Großen Hörsaal", Wegelerstraße 10, statt.

Erfrischungspausen mit Tee: Freitag und Samstag 11.15 - 12.00 Uhr und 16.00 - 17.00 Uhr vor dem Großen Hörsaal.

Teilnehmerlisten und Informationen liegen vor dem Großen Hörsaal aus. Alle Teilnehmer mögen sich bitte in die Teilnehmerlisten eintragen.

Post liegt während der Teeпаusen aus.

Den *Tagungsbeitrag* bitte während der Teeпаusen vor dem Großen Hörsaal bezahlen.

Alle Tagungsteilnehmer mit ihren Damen oder Herren sind herzlich zum *Empfang des Rektors* eingeladen. Zeit: Donnerstag, den 16.6., 20.00 Uhr. Ort: Festsaal der Universität, Hauptgebäude; Eingang von der Straße "Am Hof" durch das Tor gegenüber Buchhandlung Röhrscheid.

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Programm der Mathematischen Arbeitstagung (II)

=====

Sonntag, den 19.6.1988

- 10.15 - 11.15 Uhr W. BALLMANN: Dirichlet problem at ∞
- 12.00 - 13.00 Uhr D. KOTSCHICK: Differentiable classification of algebraic surfaces
- 17.00 - 18.00 Uhr J. FRANKE: Chow categories

Montag, den 20.6.1988

- 10.30 - 10.45 Uhr Festlegung der nächsten Vorträge
- 10.45 - 11.45 Uhr G. WÜSTHOLZ: Tate conjecture by transcendence theory
- 13.00 Uhr Schiffsausflug nach Andernach. Abfahrt um 13.00 mit Motorschiff "Carmen Sylva", Ablegestelle Alt-Zoll. Rückkehr ca. 20.00 Uhr.

Dienstag, den 21.6.1988

- 10.15 - 11.15 Uhr Y. NAMIKAWA: Conformal field theory on Riemann surfaces

Die Vorträge finden alle im "Großen Hörsaal", Wegelerstraße 10, statt.
Erfrischungspausen mit Tee: Sonntag und Dienstag, 11.15 - 12.00 Uhr und 16.00 - 17.00 Uhr vor dem Großen Hörsaal.

Teilnehmerlisten und Informationen liegen vor dem Großen Hörsaal aus.
Alle Teilnehmer mögen sich bitte in die Teilnehmerlisten eintragen.

Post liegt während der Teepausen aus.

Den Tagungsbeitrag bitte während der Teepausen vor dem Großen Hörsaal bezahlen.

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Programm der Mathematischen Arbeitstagung 1988 (III)
=====

Dienstag, den 21.6.1988

- 12.00 - 13.00 Uhr J.-M. FONTAINE: Semi-stable Galois representations
- 17.00 - 18.00 Uhr J. LEITERER: Extension of CR cohomology. Deformation of vector bundles on pseudoconvex manifolds with 2 convex holes

Mittwoch, den 22.6.1988

- 10.15 - 11.15 Uhr R. HAIN: A trilogarithm
- 12.00 - 13.00 Uhr K. GROVE: Bounding homotopy types by geometry
- 15.00 - 16.00 Uhr J. HUBBARD: Iteration of cubic polynomials

Die Vorträge finden alle im "Großen Hörsaal", Wegelerstraße 10, statt.
Erfrischungspausen mit Tee: Dienstag, 16.00 - 17.00 Uhr vor dem Großen Hörsaal; Mittwoch, 11.15 - 12.00 Uhr vor dem Großen Hörsaal.

Informationen liegen vor dem Großen Hörsaal aus.

Post liegt während der Teepausen aus.

Den Tagungsbeitrag bitte während der Teepausen vor dem Großen Hörsaal bezahlen.

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Programm der Mathematischen Arbeitstagung 1990 (I)
=====

Samstag, den 23.6.1990

16.00 - 17.00 Uhr M.F. ATIYAH: Topology and quantum field theory

Sonntag, den 24.6.1990 TAG DER KOMPLEXEN ANALYSIS

10.15 - 11.15 Uhr H. GRAUERT: Extension of quotient sheaves to edges

12.00 - 13.00 Uhr T. OHSAWA: Geometric and analytic aspects of the L^2 theory in complex analysis

17.00 - 18.00 Uhr S.K. DONALDSON: Differential topology and complex variables

Montag, den 25.6.1990

10.00 - 10.15 Uhr Festlegung der nächsten Vorträge

10.15 - 11.15 Uhr N. ELKIES: On Mordell-Weil lattices

12.00 - 13.00 Uhr I. CHEREDNIK: Kac-Moody algebras and conformal field theory

17.00 - 18.00 Uhr H. LENSTRA: On the 9th Fermat number

Dienstag, den 26.6.1990

10.15 - 11.15 Uhr CH. SOULÉ: Arithmetic Riemann-Roch theorems

Die Vorträge finden alle im Großen Hörsaal, Wegelerstraße 10, statt.
Erfrischungspausen mit Tee: Sonntag und Montag, 11.15-12.00 Uhr und
16.00-17.00 Uhr vor dem Großen Hörsaal.

Teilnehmerlisten und Informationen liegen vor dem Großen Hörsaal aus.

Alle Teilnehmer werden gebeten, sich in die Listen einzutragen.

Post liegt während der Teepausen aus.

Den Tagungsbeitrag bitte in den Teepausen vor dem Großen Hörsaal bezahlen.

Alle Tagungsteilnehmer mit ihren Damen oder Herren sind herzlich zum

Empfang des Rektors eingeladen. Zeit: Montag, 25.6., 20.00 Uhr. Ort:

Festsaal der Universität (Hauptgebäude); Eingang von der Straße "Am Hof"
durch das Tor gegenüber Buchhandlung Röhrscheid.

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Programm der Mathematischen Arbeitstagung 1990 (II)

=====

Dienstag, den 26.6.1990

13.00 Uhr Schiffsausflug nach Linz. Abfahrt um 13.00 Uhr mit Motorschiff "Carmen Sylva", Ablegestelle Alter Zoll. Rückkehr ca. 19.30 Uhr.

Mittwoch, den 27.6.1990

10.15 - 11.15 Uhr M. ZAIDENBERG: Acyclic affine curves and surfaces. Exotic algebraic structures on \mathbb{C}^n

12.00 - 13.00 Uhr K. RUBIN: Euler systems and applications to elliptic curves and ideal class groups

17.00 - 18.00 Uhr V. POENARU: New infinite processes in 3-dimensional topology

Donnerstag, den 28.6.1990

10.15 - 11.15 Uhr U. HAMENSTÄDT: Rigidity of geodesic flows (on a conjecture of Katok)

12.00 - 13.00 Uhr M. KRECK: Positive scalar curvature, $P_2(\mathbb{H})$, and elliptic homology

17.00 - 18.00 Uhr H. BAUM: Killing spinors on Riemannian manifolds

Freitag, den 29.6.1990

10.15 - 11.15 Uhr A. JUHL: Selberg ζ -functions for locally symmetric spaces of higher rank

12.00 - 13.00 Uhr G. WÜSTHOLZ: Diophantine approximation (report on work of Vojta, Faltings and Bombieri)

16.30 - 17.30 Uhr S. LANG: The non-Mordellic subset of an algebraic variety (Kolloquium)

Die Vorträge finden alle im Großen Hörsaal statt. Erfrischungspausen mit Tee: Mittwoch, Donnerstag und Freitag 11.15 - 12.00 Uhr, Mittwoch und Donnerstag 16.00 - 17.00 Uhr, Freitag 16.00 - 16.30 Uhr jeweils vor dem Großen Hörsaal. Teilnehmerlisten und Informationen liegen vor dem Großen Hörsaal aus. Post liegt während der Teepausen aus. Den Tagungsbeitrag bitte während der Teepausen vor dem Großen Hörsaal bezahlen.

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Programm der Mathematischen Arbeitstagung 1991 (I)
=====

Freitag, den 14.6.1991

16.00 - 17.00 Uhr S.K. DONALDSON (Oxford)
Glueing problems in Yang-Mills theory

Samstag, den 15.6.1991

10.15 - 11.15 Uhr T. SHIODA (Rikkyo U., z.Zt. MPI)
Mordell-Weil lattices: theory and applications

12.00 - 13.00 Uhr D. ZAGIER (MPI Bonn und U. Utrecht)
Polylogarithms

17.00 - 18.00 Uhr B. OLIVER (Aarhus)
Maps between classifying spaces of compact Lie
groups

Sonntag, den 16.6.1991

10.15 - 11.15 Uhr Yu.I. MANIN (Steklov Moskau, z.Zt. MPI)
DeRham-complexes in non-commutative geometry

12.00 - 13.00 Uhr G. WÜSTHOLZ (ETH Zürich)
Faltings's proof of one of Lang's conjectures
(rational points on subvarieties of Abelian varieties)

16.15 - 16.45 Uhr H. HIRONAKA (Harvard)
Miscellanea Mathematica

17.00 - 18.00 Uhr J-P. SERRE (Collège de France Paris)
Galois cohomology: recent results and open questions

Montag, den 17.6.1991

10.00 - 10.15 Uhr Festlegung der restlichen Vorträge

10.15 - 11.15 Uhr M. KONTSEVICH (Acad. Sci. Moskau, z.Zt. MPI)
Intersection theory on the moduli space of curves
and the matrix Airy function

13.00 Uhr Schiffsfahrt nach Andernach. Abfahrt um 13.00 Uhr
mit Motorschiff "Carmen Sylva", Ablegestelle
Alter Zoll. Rückkehr ca. 20.00 Uhr

b.w.!
PTO!

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Programm der Mathematischen Arbeitstagung 1991 (II)
=====

Mittwoch, den 19.6.1991

- 10.15 - 11.15 Uhr H. TSUJI (Tokyo Metropolitan U., z.Zt. MPI)
Report on Mori Theory
- 12.00 - 13.00 Uhr S. KLAINERMAN (Princeton U., z.Zt. SFB 256)
On non-linear stability of Minkowski space
- 17.00 - 18.00 Uhr C. BÄR (Bonn)
On Killing spinors and exceptional holonomy groups

Donnerstag, den 20.6.1991

- 10.15 - 11.15 Uhr R. PINK (Bonn)
Deligne's conjecture on the Lefschetz trace formula
in positive characteristic is now a theorem
- 12.00 - 13.00 Uhr W. MÜLLER (Karl-Weierstraß-Institut, z.Zt. MPI)
Analytic Torsion for non-unitary representations
and Chern-Simons gauge theory
- 17.00 - 18.00 Uhr F. OORT (Utrecht)
Newton polygons and abelian varieties

Die Vorträge finden alle im "Großen Hörsaal", Wegelerstraße 10, statt.

Erfrischungspausen mit Tee: Mittwoch und Donnerstag, 11.15 - 12.00 Uhr
und 16.15 - 17.00 Uhr vor dem Großen Hörsaal.

Post liegt während der Teepausen aus.

Informationen liegen vor dem Großen Hörsaal aus.

Den *Tagungsbeitrag* bitte während der Teepausen vor dem Großen Hörsaal
bezahlen.

Dienstag, den 18.6.1991

- | | |
|-------------------|--|
| 10.15 - 11.15 Uhr | M. WODZICKI (UC Berkeley)
Excision in K-theory and proof of the Karoubi conjecture |
| 12.00 - 13.00 Uhr | R. MACPHERSON (M.I.T.)
Lefschetz numbers of Hecke correspondences |
| 17.00 - 18.00 Uhr | S. LANG (Yale University, z.Zt. MPI)
Degeneration of Riemann surfaces and
Jorgenson's proof of a conjecture of Deligne |

Die Vorträge finden alle im "Großen Hörsaal", Wegelerstraße 10, statt.

Erfrischungspausen mit Tee: Samstag, Sonntag und Dienstag 11.15 - 12.00 Uhr,
Samstag und Dienstag 16.15-17.00 Uhr, Sonntag 15.30 - 16.15 Uhr, jeweils
vor dem Großen Hörsaal.

Teilnehmerlisten und Informationen liegen vor dem Großen Hörsaal aus.
Alle Teilnehmer mögen sich bitte in die Teilnehmerlisten eintragen.

Post liegt während der Teepausen aus.

Den *Tagungsbeitrag* bitte während der Teepausen vor dem Großen Hörsaal bezahlen

Alle Tagungsteilnehmer mit ihren Damen oder Herren sind herzlich zum
Empfang des Rektors eingeladen. Zeit: Freitag, den 14.6., 20.00 Uhr.
Ort: Festsaal der Universität, Hauptgebäude; Eingang von der Straße
"Am Hof" durch das Tor gegenüber Buchhandlung Bouvier.

Max-Planck-Institut
für Mathematik
Gottfried-Claren-Straße 26
5300 Bonn 3

und

Mathematisches Institut
der Universität Bonn
Wegelerstraße 10
5300 Bonn 1

Program of the Mathematische Arbeitstagung 1993 (I)

Wednesday, June 9, 1993

- 3:30 – 4:15 p.m. Opening and first program discussion
- 5:00 – 6:00 p.m. YU. I. MANIN (Max-Planck-Institut für Mathematik)
Report on Mirror Symmetries
- 8:00 – 10:00 p.m. Chamber Music Concert: Knopp-Melançon Duo
Festsaal der Universität, Hauptgebäude (entrance from
"Am Hof" street across from Bouvier bookstore)

Thursday, June 10, 1993

- 10:15 – 11:15 a.m. M. KONTSEVICH: A_∞ -algebras in mirror symmetry
- 12:00 – 1:00 p.m. W. NAHM: Conformal field theories in 2 dimensions
and \mathcal{W} -algebras
- 5:00 – 6:00 p.m. D. HARBATER: Proof of Abhyankar's conjecture
on π_1 of curves in characteristic p

Friday, June 11, 1993

- 9:50 – 10:10 a.m. Program discussion for the Saturday and Sunday lectures
- 10:15 – 11:15 a.m. N.-P. SKORUPPA: New methods in modular forms
and Jacobi forms
- 1:00 – 8:00 p.m. Boat trip to Bad Breisig
Departure with "Carmen Sylva" near the Kennedy Bridge

All lectures will take place in the "Großer Hörsaal", Wegelerstraße 10.

There will be *tea breaks* on Wednesday from 4:15 to 5 p.m. and on other days (except Friday) from 11:15 to 12 a.m. and 4:15 to 5 p.m. At this time also *mail* will be distributed and you will have the opportunity to pay your *Tagungsbeitrag* of 20 marks.

Lists of participants and other information will be available at the entrance of the lecture room. All participants are requested to put their name on the list!

All Arbeitstagung participants and those accompanying them are warmly invited to the chamber music program on Wednesday evening.

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Program of the Mathematische Arbeitstagung 1993 (II)

Saturday, June 12, 1993

- 10:15 – 11:15 a.m. M. WODZICKI: Algebraic K-theory of trace class operators
- 12:00 – 13:00 p.m. M. RAPOPORT: p-adic period domains
- 5:00 – 6:00 p.m. T. ODA: Moduli spaces of curves with pro-nilpotent
level structure

Sunday, June 13, 1993

- 10:00 – 10:15 a.m. Program discussion for the Monday and Tuesday lectures
- 10:15 – 11:15 a.m. G. WÜSTHOLZ: Diophantine approximation in \mathbf{P}^n
- 12:00 – 13:00 p.m. B. HUNT: Algebraic-geometric characterization of
locally symmetric spaces
- 5:00 – 6:00 p.m. M. YOSHIDA: Intersection theory for twisted homology
and hypergeometric functions

All lectures will take place in the "Großer Hörsaal", Wegelerstraße 10.

There are daily *tea breaks* from 11:15 to 12 a.m. and 4:15 to 5 p.m. At this time also *mail* will be distributed and you will have the opportunity to pay your *Tagungsbeitrag* of 20 marks.

Lists of participants and other information will be available at the entrance of the lecture room. All participants are requested to put their name on the list!

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Program of the Mathematische Arbeitstagung 1993 (III)

Monday, June 14, 1993

- 10:15 – 11:15 a.m. J.-M. KANTOR: Counting lattice points in convex polyhedra
- 12:00 – 13:00 p.m. B. LEEB: Metrics of non-positive curvature on 3-manifolds
- 3:00 – 4:00 p.m. A. SCHWARZ: New geometric and algebraic structures in string theory
- 5:00 – 6:00 p.m. H. ESNAULT: Higher Kodaira-Spencer maps
- 8:00 – 11 (?) p.m. Rector's Party
Festsaal der Universität, Hauptgebäude (entrance from "Am Hof" street across from Bouvier bookstore)

Tuesday, June 15, 1993

- 10:15 – 11:15 a.m. K. KÖHLER: Analytic torsion and higher direct images in arithmetic K-theory
- 12:00 – 13:00 p.m. Y. RUAN: Symplectic Donaldson type invariants
- 5:00 – 6:00 p.m. F. OORT: Subvarieties of moduli spaces

All lectures will take place in the "Großer Hörsaal", Wegelerstraße 10.

There are daily *tea breaks* from 11:15 to 12 a.m. and 4:15 to 5 p.m. At this time also *mail* will be distributed and you will have the opportunity to pay your *Tagungsbeitrag* of 20 marks.

Lists of participants and other information will be available at the entrance of the lecture room. All participants are requested to put their name on the list!

All Arbeitstagung participants and those accompanying them are warmly invited to attend the Rector's party on Monday evening.

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Program of the Mathematische Arbeitstagung 1995 (I)

Wednesday, June 14, 1995

- 3:30 – 4:15 p.m. Opening and first program discussion
- 5:00 – 6:00 p.m. M. KONTSEVICH (Berkeley and IHES)
The moduli space of all Calabi-Yau threefolds
- 8:00 – 9:50 p.m. Chamber Music Concert: Knopp-Melançon Duo
Aula der Universität, Hauptgebäude (entrance from
"Am Hof" street across from Bouvier bookstore)

Thursday, June 15, 1995

- 10:15 – 11:15 a.m. F. POP (Heidelberg)
Characterization of fields by their Galois groups
- 12:00 – 1:00 p.m. M. SMIRNOV (Princeton U.)
Radon transform and the 4th Hilbert problem
- 5:00 – 6:00 p.m. T. MROWKA (Harvard)
Seiberg-Witten invariants and 4-manifolds, I
- 8:00 – 11 (?) p.m. Rector's Party
Festsaal der Universität, Hauptgebäude (entrance from
"Am Hof" street across from Bouvier bookstore)

Friday, June 16, 1995

- 10:00 – 10:20 a.m. Program discussion for the Saturday and Sunday lectures
- 10:30 – 11:30 a.m. J. MORGAN (Columbia U.)
Seiberg-Witten invariants and 4-manifolds, II
- 1:00 – 8:00 p.m. Boat trip to Unkel
Departure with "Carmen Sylva" near the Kennedy Bridge

All lectures will take place in the "Großer Hörsaal," Wegelerstraße 10.

There will be *tea breaks* on Wednesday from 4:15 to 5 p.m. and on other days (except Friday) from 11:15 to 12 a.m. and 4:15 to 5 p.m. At this time also *mail* will be distributed and you will have the opportunity to pay your *Tagungsbeitrag* of 20 marks.

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All Arbeitstagung participants and those accompanying them are warmly invited to the chamber music program on Wednesday evening and to the party on Thursday.

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Program of the Mathematische Arbeitstagung 1995 (II)

Saturday, June 17, 1995

- 10:15 – 11:15 a.m. R. BORCHERDS (Berkeley)
Product expansions of automorphic forms
- 12:00 – 13:00 p.m. F. OORT (Utrecht)
Resolution of singularities by alterations (a report
on work of A.J. de Jong)
- 5:00 – 6:00 p.m. A. BUIUM (Romanian Acad.Sci. Bucarest)
 p -adic jets, Manin maps and related questions

Sunday, June 18, 1995

- 10:00 – 10:15 a.m. - Program discussion for the Monday and Tuesday lectures
- 10:15 – 11:15 a.m. C-L. CHAI (U. of Pennsylvania)
Density of ordinary abelian varieties in the moduli space
- 12:00 – 13:00 p.m. R. TAYLOR (Oxford)
Galois representations and modular forms, I
- 5:00 – 6:00 p.m. E. LOOIJENGA (Utrecht)
On the tautological ring of M_g

All lectures will take place in the "Großer Hörsaal," Wegelerstraße 10.

There are daily *tea breaks* from 11:15 to 12 a.m. and 4:15 to 5 p.m. At this time also *mail* will be distributed and you will have the opportunity to pay your *Tagungsbeitrag* of 20 marks.

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Program of the Mathematische Arbeitstagung 1995 (III)

Monday, June 19, 1995

- | | |
|--------------------|---|
| 10:15 – 11:15 a.m. | G. FALTINGS (MPI)
Tate cycles |
| 12:00 – 13:00 p.m. | R. PINK (Mannheim)
Mumford-Tate conjecture |
| 5:00 – 6:00 p.m. | B. LEEB (U. Bonn)
Rigidity of spaces of non-positive curvature |

Tuesday, June 20, 1995

- | | |
|--------------------|--|
| 10:15 – 11:15 a.m. | U. BUNKE (Berlin)
Spectral theory on symmetric spaces:
group cohomology and ζ -functions |
| 12:00 – 13:00 p.m. | I. HAMBLETON (McMaster U.)
On topological similarities of representations
of finite groups |
| 5:00 – 6:00 p.m. | R. TAYLOR (Oxford)
Galois representations and modular forms, II |

All lectures will take place in the "Großer Hörsaal," Wegelerstraße 10.

There are daily *tea breaks* from 11:15 to 12 a.m. and 4:15 to 5 p.m. At this time also *mail* will be distributed and you will have the opportunity to pay your *Tagungsbeitrag* of 20 marks.

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Program of the Mathematische Arbeitstagung 1997 (I)

Friday, June 20, 1997

- 3:30 – 4:15 p.m. Opening and first program discussion
- 5:00 – 6:00 p.m. S. Donaldson (Oxford)
Kähler geometry, geometric invariant theory
and Hamiltonian dynamics
- 8:00 – 11 (?) p.m. Rector's Party
Festsaal der Universität, Hauptgebäude (entrance from
"Am Hof" street across from Bouvier bookstore)

Saturday, June 21, 1997

- 10:15 – 11:15 a.m. L. Schwachhöfer (Leipzig)
On the classification of holonomy groups
- 12:00 – 1:00 p.m. A. Goncharov (MPI)
Multiple polylogarithms at roots of unity and motivic Lie algebras
- 5:00 – 5:30 p.m. V. Schechtman (MPI)
Local structure of moduli spaces
- 5:30 – 6:00 p.m. V. Ginzburg (Chicago)
Hilbert schemes and reductive groups

Sunday, June 22, 1997

- 10:00 – 10:15 a.m. Program discussion (II)
- 10:15 – 11:15 a.m. R. Borcherds (Cambridge)
Vertex algebras
- 12:00 – 1:00 p.m. R. Pink (Mannheim)
Motives and Hodge structures over function fields
- 5:00 – 6:00 p.m. M. Kontsevich (I.H.E.S.)
Deformation quantization

All lectures will take place in the "Großer Hörsaal", Wegelerstraße 10. There will be *tea breaks* on Saturday and Sunday from 11:15 to 12 a.m. and 4:15 to 5 p.m. At this time also *mail* will be distributed and you will have the opportunity to pay your *Tagungsbeitrag* of 30 marks. *Lists of participants* and other information will be available at the entrance of the lecture room. All participants are requested to put their name on the list!
All Arbeitstagung participants and those accompanying them are invited to the *Rector's Party* this evening.

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Program of the Mathematische Arbeitstagung 1997 (II)

Monday, June 23, 1997

- 10:15 – 11:15 a.m. Y. Tschinkel (U. of Illinois)
Height zeta functions
- 12:00 – 9:00 p.m. Boat trip to Engers
Departure with “Carmen Sylva” next to the Kennedy Bridge

Tuesday, June 24, 1997

- 10:00 – 10:15 a.m. Program discussion (III)
- 10:15 – 11:15 a.m. B. Leeb (Bonn)
Rigidity of symmetric spaces and Euclidean buildings
- 12:00 – 1:00 p.m. D. Harbater (U. of Pennsylvania)
Grothendieck-Teichmüller group and
covers of \mathbf{P}^1
- 5:00 – 6:00 p.m. L. Katzarkov (MPI)
Complex surfaces and very interesting fundamental groups
- 7:30 – 9:30 p.m. Chamber Music Concert: Moscow-Königsberg String Quartet
Aula der Universität, Hauptgebäude (entrance from
“Am Hof” street across from Bouvier bookstore)

Wednesday, June 25, 1997

- 10:15 – 11:15 a.m. H. Miller (M.I.T.)
Elliptic moduli in algebraic topology
- 12:00 – 1:00 p.m. W. Nahm (Bonn)
Branes

All lectures will take place in the “Großer Hörsaal”, Wegelerstraße 10.

There are *tea breaks* on Tuesday and Wednesday from 11:15 to 12 a.m. and 4:15 to 5 p.m. At this time also *mail* will be distributed and you will have the opportunity to pay your *Tagungsbeitrag* of 30 marks.

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All Arbeitstagung participants and those accompanying them are warmly invited to the boat trip on Monday and to the chamber music program on Tuesday evening.

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Program of the Mathematische Arbeitstagung 1997 (III)

Wednesday, June 25, 1997

- 4:45 – 5:00 p.m. Program discussion (IV)
- 5:00 – 6:00 p.m. E. Getzler (Northwestern U.)
Counting elliptic curves in projective varieties

Thursday, June 26, 1997

- 10:15 – 11:15 a.m. V. Gritsenko (MPI)
Discriminants of $K3$ -surfaces and Kac-Moody algebras
- 12:00 – 1:00 p.m. F. Pop (Bonn)
The anabelian conjecture
- 5:00 – 6:00 p.m. M. Mahowald (Northwestern U.)
Curves of higher genus and homotopy theory

All lectures will take place in the “Großer Hörsaal”, Wegelerstraße 10.

There are *tea breaks* on Tuesday and Wednesday from 11:15 to 12 a.m. and 4:15 to 5 p.m. At this time also *mail* will be distributed and you will have the opportunity to pay your *Tagungsbeitrag* of 30 marks.

Lists of participants and other information will be available at the entrance of the lecture room. All participants are requested to put their name on the list!

MAX-PLANCK-INSTITUT
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Program of the Mathematische Arbeitstagung 1999 (I)

Friday, June 18, 1999

- 3:30 - 4:15 p.m. Opening and first program discussion (I)
- 5:00 - 6:00 p.m. A. Connes (IHES)
*"Explicit formulas as trace formulas, quantized calculus,
and spectral interpretation of the zeros of the Riemann
zeta function"*
- 8:00 - 10:30 p.m. **Chamber music concert:** String Trio
Hörsaal (Auditorium) MPI

Saturday, June 19, 1999

- 10:00 - 11:00 a.m. H. Esnault (Essen)
"Riemann-Roch theorems for flat bundles"
- 12:00 - 1:00 p.m. V. Schechtman (Glasgow)
"Vertex operator algebras and elliptic genus"
- 5:00 - 6:00 p.m. W. Ziller (U. of Pennsylvania)
"Curvature and symmetry of Milnor spaces"

Sunday, June 20, 1999

- 10:00-10:15 a.m. Program discussion (II)
- 10:15 - 11:15 a.m. A. Goncharov (Brown U./MPI)
*"Galois groups, geometry of modular varieties
and graphs "*
- 12:00 - 1:00 p.m. V. A. Gritsenko (POMI/Lille/MPI)
"Generalized elliptic genera"
- 5:00 - 6:00 p.m. M. Rapoport (Köln)
"Intersection numbers of Heegner cycles"

All lectures will take place in the "Großer Hörsaal", Wegelerstraße 10.

There will be **tea breaks** on Saturday and Sunday from 11:15 to 12:00 a.m. and 4:15 to 5 p.m.

At this time also mail will be distributed and you will have the opportunity to

pay your Tagungsbeitrag (registration fee) of DM 30.

Lists of participants and other information will be available at the entrance of the lecture room.

All participants are requested to put their name on the list!

All Arbeitstagung participants and those accompanying them are invited to the

****** Chamber music concert this evening (Auditorium MPI). ******

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Program of the Mathematische Arbeitstagung 1999 (II)

Monday, June 21, 1999

- 10:00-11:00 a.m. N. A'Campo (Basel)
"Immersed curves, knots and singularities"
- 1:00-approx. 8:00 p.m. **Boat trip**

Tuesday, June 22, 1999

- 10:00 - 10:15 a.m. Program discussion (III)
- 10:15-11:15 a.m. Ch. Soulé (IHES)
"On the field with one element"
- 12:00 - 1:00 p.m. Y. Rudyak (Siegen)
"On category weight and the Arnold conjecture"
- 5:00 - 6:00 p.m. G. Böckle (Mannheim)
*"L-functions over function fields
A cohomological approach"*

Wednesday, June 23, 1999

- 10:00 - 11:00 a.m. D. Abramovich (Boston U./MPI)
"Factorization of birational maps"

All lectures will take place in the "Großer Hörsaal", Wegelerstraße 10.
There will be **tea breaks** on Tuesday and Wednesday from 11:15 to 12:00 a.m. and 4:15 to 5 p.m.

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All participants are requested to put their name on the list!

All Arbeitstagung participants and those accompanying them are invited to the
****** Schiffsausflug (boat trip) on Monday (1:00 p.m. - approx. 8:00 p.m.) ******

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Program of the Mathematische Arbeitstagung 1999 (III)

Wednesday, June 23, 1999

- 10:15-11:15 a.m. D. Abramovich (Boston U./MPI)
"Factorization of birational maps"
- 12:00-1:00 p.m. A. Suslin (Northwestern U.)
"Bloch-Kato conjecture "
- 3:30 p.m. "Hirzebruch's festivities"
(in the MPIM, Vivatsgasse 7 !)
- 5:15-6:15 p.m. D. Zagier (MPI)
"Half-derivatives of modular forms and invariants of 3-manifolds"

Thursday, June 24, 1999

- 10:00-11:00 a.m. T. Venkataramana (Bombay)
"Restriction maps in cohomology of arithmetic groups"
- 12:00 - 1:00 p.m. M. Kontsevich (IHES)
"Non-commutative smooth spaces"
- 5:00 - 6:00 p.m. M. Saïdi (Bonn)
"Raynaud's theorem on coverings of curves"

All lectures will take place in the "Großer Hörsaal", Wegelerstraße 10.

There will be **tea breaks** on Wednesday and Thursday from 11:15 to 12:00 a.m. and 4:15 to 5 p.m.

At this time also mail will be distributed and you will have the opportunity to
pay your *Tagungsbeitrag* (registration fee) of DM 30.

Lists of participants and other information will be available at the entrance of the lecture room.

All participants are requested to put their name on the list!

All Arbeitstagung participants and those accompanying them are invited to the

****** Rector's party this evening (Tuesday, June 22) at 8:00 p.m. ******
(Festsaal der Universität, Hauptgebäude, entrance from "Am Hof")

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Program of the Mathematische Arbeitstagung 2001 (I)

Wednesday, June 13, 2001

- 3:30 – 4:15 p.m. Opening and first program discussion
- 5:00 – 6:00 p.m. R. Taylor (Harvard)
On a conjecture of Fontaine and Mazur
- 7:30 – 8:30 p.m. Concert in the Hörsaal (Auditorium) of the MPI
Mark Russell, solo violin improvisations

Thursday, June 14, 2001

- 10:00 – 11:00 a.m. T. Hales (U. of Michigan)
Sphere packings in 3 dimensions
- 12:00 – 1:00 p.m. V. Ginzburg (U. of Chicago)
On non-commutative geometry
- 5:00 – 6:00 p.m. G. Kings (Münster/MPI)
Polylogarithms, Bloch-Kato conjecture, and
special values of L -functions

Friday, June 15, 2001

- 10:00 – 11:00 a.m. H. Tamvakis (U. of Pennsylvania/MPI)
Cohomology and quantum cohomology Grassmannians
- 12:00 – 1:00 p.m. P.M.N. Feehan (Dublin/MPI)
On Seiberg-Witten and Donaldson invariants
- 5:00 – 6:00 p.m. J-P. Demailly (Inst.Fourier Grenoble)
Numerical characterization of the Kähler cone of a
compact Kähler manifold
- 8:00 – 11 (?) p.m. Rector's Party
Festsaal der Universität, Hauptgebäude (entrance from
"Am Hof" street across from Bouvier bookstore)

p.t.o.

Saturday, June 16, 2001

- 10:00 – 10:15 a.m. Program discussion (II)
- 10:15 – 11:15 a.m. A. Beilinson (U. of Chicago)
 ϵ -factors in the deRham setting
- 12:00 – 1:00 p.m. L. Berkovich (Samara St.U.)
On a method of exact linearization of nonlinear DE's
- 5:00 – 6:00 p.m. N. Hitchin (Oxford)
Gerbs and special Lagrangian varieties

All lectures will take place in the "Großer Hörsaal," Wegelerstraße 10. There will be *tea breaks* from 11:15 to 12 a.m. in Wegelerstrasse and 3:30 to 4:30 p.m. in the MPI. At this time also *mail* will be distributed and you will have the opportunity to pay your *Tagungsbeitrag* of 30 marks. *Lists of participants* and other information will lie out in Wegelerstrasse and in the MPI. *All participants* are requested to put their name on the list!

**** All Arbeitstagung participants and those accompanying them are invited to the *Concert* on Wednesday and the *Rector's Party* on Friday ****

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Program of the Mathematische Arbeitstagung 2001 (II)

Sunday, June 17, 2001

- 10:00 – 11:00 a.m. B. Wilking (Münster)
Positive curvature
- 12:00 – 13:00 p.m. St. Kudla (U. of Maryland)
Derivatives of Eisenstein series and intersection numbers
- 5:00 – 6:00 p.m. W. Müller (U. Bonn)
Cusp forms for GL_n

Monday, June 18, 2001

- 10:00 – 11:00 a.m. L. Lafforgue (I.H.E.S.)
Drinfeld's shtukas and Langlands's correspondence
- 1:00 – ca.8:00 p.m. Boat Trip
See special leaflet

Tuesday, June 19, 2001

- 10:00 – 11:00 a.m. P. Gunnells (Rutgers/MPI)
On toric varieties and modular forms
- 12:00 – 13:00 p.m. O.N. Ageev (Moscow St.Techn.U./MPI)
Dynamical systems (spectral theory)
- 5:00 – 6:00 p.m. M. Kapranov (U. of Toronto)
The space of formal loops and vertex algebras

All lectures will take place in the "Großer Hörsaal," Wegelerstraße 10. There will be *tea breaks* from 11:15 to 12 a.m. in Wegelerstrasse and 3:30 to 4:30 p.m. in the MPI. At this time also *mail* will be distributed and you will have the opportunity to pay your *Tagungsbeitrag* of 30 marks. *Lists of participants* and other information will lie out in Wegelerstrasse and in the MPI. *All participants* are requested to put their name on the list!

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53111 Bonn

and

Mathematisches Institut
der Universität Bonn
Wegelerstraße 10
53115 Bonn

Program of the Mathematische Arbeitstagung 2003 (I)

Friday, June 13, 2003

- 3:30 – 4:15 p.m. Opening and first program discussion
- 5:00 – 6:00 p.m. M. Kontsevich (I.H.E.S.)
SLE, CFT and phase boundaries

Saturday, June 14, 2003

- 10:00 – 11:00 a.m. R. Sujatha (Tata Institute)
Non-commutative Iwasawa theory
- 12:00 – 1:00 p.m. M. Kapovich (U. of Utah)
Geometrization conjecture and Ricci flow
- 5:00 – 6:00 p.m. I. Hambleton (McMaster U.)
Smooth group actions on 4-manifolds

Sunday, June 15, 2003

- 10:00 – 10:15 a.m. Program discussion (II)
- 10:15 – 11:15 a.m. C. McMullen (Harvard U.)
Billiards and Hilbert modular surfaces
- 12:00 – 1:00 p.m. M. Marcolli (MPIM)
Non-commutative arithmetic geometry
- 5:00 – 6:00 p.m. F. Pop (U. Bonn)
Anabelian geometry

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Program of the Mathematische Arbeitstagung 2003 (II)

Monday, June 16, 2003

- 10:00 – 11:00 a.m. Y. Soibelman (Kansas St.U.)
Deformations of algebras
- 12:00 – ca. 7:00 p.m. Boat Trip
See special leaflet

Tuesday, June 17, 2003

- 10:00 – 10:15 a.m. Program discussion (III)
- 10:15 – 11:15 a.m. H. Esnault (Essen)
Rational points on Fano varieties
- 12:00 – 13:00 p.m. N. A'Campo (Basel U.)
Knots and Galois groups
- 5:00 – 6:00 p.m. G. van der Geer (Amsterdam) and/or G. Harder (MPIM)
Congruences between genus 1 and genus 2 modular forms
- 8:00 – 11 p.m. Rector's Party
Festsaal der Universität, Hauptgebäude (entrance from
"Am Hof" street across from Bouvier bookstore)

Wednesday, June 18, 2003

- 10:00 – 11:00 a.m. M. Levine (Northeastern/Essen)
Algebraic cobordism

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Program of the Mathematische Arbeitstagung 2003 (III)

Wednesday, June 18, 2003

- 12:00 – 13:00 p.m. M. Belolipetskiy (Novosibirsk)
Extremal surfaces and volumes of arithmetic hyperbolic n -manifolds
- 5:00 – 6:00 p.m. G. Farkas (U. of Michigan)
Slope conjecture

Thursday, June 19, 2003

- 10:00 – 11:00 a.m. V. Vologodsky (Harvard/IHES)
Hodge-Higgs structure in finite characteristic
- 12:00 – 13:00 p.m. N. Ramachandran (U. of Maryland)
Special values of Zeta functions
- 5:00 – 6:00 p.m. Y. Flicker (Ohio State U.)
Automorphic forms on Sp_2

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Program of the Mathematische Arbeitstagung 2005 (I)

Friday, June 10, 2005

3:30 – 4:15 p.m. Opening and first program discussion

5:00 – 6:00 p.m. M. Kontsevich (I.H.E.S.)
Automorphisms of the Weyl algebra

Saturday, June 11, 2005

10:00 – 11:00 a.m. M. Kim (University of Arizona at Tucson and MPIM)
Around the section conjecture

12:00 – 1:00 p.m. U. Hamenstädt (Bonn University)
Mapping class group

5:00 – 6:00 p.m. G. Moore (Rutgers University)
Black holes and arithmetic

Sunday, June 12, 2005

10:00 – 10:15 a.m. Program discussion (II)

10:15 – 11:15 a.m. H. Moscovici (Ohio State University)
Modular Hecke algebras

12:00 – 1:00 p.m. W. Lück (Münster University and MPIM)
 L^2 -cohomology and geometric group theory

5:00 – 6:00 p.m. J.-M. Bismut (Orsay)
Hypoelliptic laplacian

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Program of the Mathematische Arbeitstagung 2005 (II)

Monday, June 13, 2005

- 10:00 – 11:00 a.m. M. Möller (Essen University)
Hodge theory of Teichmüller curves
- 12:00 – 1:00 p.m. V. Gritsenko (Lille and MPIM)
Moduli spaces of $K3$ -surfaces
- 5:00 – 6:00 p.m. C. Faber (KTH Stockholm and Johns Hopkins)
Moduli spaces of curves
- 8:00 – 11 p.m. Rector's Party
Festsaal der Universität, Hauptgebäude (entrance from
"Am Hof" street across from Bouvier bookstore)

Tuesday, June 14, 2005

- 9:45 – 10:00 a.m. Program discussion (III)
- 10:00 – 11:00 a.m. M. Marcolli (MPIM)
Renormalisation for dummies
- 12:00 – ca. 7:00 p.m. Boat Trip
See special leaflet

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Program of the Mathematische Arbeitstagung 2005 (III)

Wednesday, June 15, 2005

- 10:00 – 11:00 a.m. E. Friedlander (Northwestern)
 Representations of finite group schemes
- 11:45 – 12:45 p.m. H. Geiges (Köln University)
 Contact surgery and property P
- 5:00 – 6:00 p.m. A. Dzhumadil'daev (Kazakhstan and MPIM)
 Polycocommutators of vector fields

Thursday, June 16, 2005

- 10:00 – 11:00 a.m. P. Aluffi (Florida State University and MPIM)
 Stringy Chern classes
- 11:45 – 12:45 p.m. Y. Manin (MPIM)
 Non commutative modular symbols
- 5:00 – 6:00 p.m. A. Gerasimov (ITEP Moscow and MPIM)
 Towards integrability of topological strings

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