

Anhang

Programme

der

25 Arbeitstagungen von 1957 - 1984

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

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

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 criteria 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^v: 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^v: 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 $SL_2(\mathbf{Z})$

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: Solution of the Calabi conjecture

C.L. Terng:

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 Gieseke)
- 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. Wüstholtz: 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/\mathbf{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"

Teilnehmer der Arbeitstagung 1984

K. Abe (U. of Connecticut)
U. Abresch (MPI/SFB)
J.F. Adams (Cambridge)
S. Akbulut (MPI/SFB)
H. Andersen (Aarhus)
Y. André (Inst. Poincaré, Paris)
G. Andrzejczak (MPI/SFB)
V. Anosov (Steklov Inst., Moskau)
M. Artin (MIT)
M.F. Atiyah (Oxford)
H. Azad (Bochum)
A. Back (SUNY)
A. Bak (Bielefeld)
A. Baker (Cambridge)
W. Ballmann (Bonn)
T. Banchoff (Brown U.)
B. Banieqbal (Manchester)
W. Barth (Erlangen)
G. Barthel (Konstanz)
H.J. Baues (Bonn)
E. Becker (Dortmund)
K. Behnke (MPI/SFB)
R. Berndt (Hamburg)
B. Birch (Oxford)
S. Böcherer (Freiburg)
C.-F. Bödigheimer (Heidelberg)
A. Bojanowska (ETH Zürich)
M. Bökstedt (Bielefeld)
W. Borho (Wuppertal)
R. Bott (Harvard)
J.P. Bourguignon (Ec. Polyt. Palaiseau)
G. Brattström (Harvard)
E. Brieskorn (Bonn)
E. Brown (Brandeis U.)
R. Bruggeman (Utrecht)
J. Brüning (Augsburg)
R.L. Bryant (Rice U.)
D. Burghelea (Ohio State U.)
E. Calabi (U. of Pennsylvania)
S.S. Chern (MSRI Berkeley)
J. Coates (Orsay)
R. Connelly (Cornell U.)
A. Connes (IHES)
M. Crabb (Wuppertal)
C.B. Croke (U. of Pennsylvania)
R. Cushman (Utrecht)
W. Danielewski (Bochum)
W. Decker (Kaiserslautern)
J. Deprez (Leuven)
A. Derdzinski (MPI/SFB)
T. tom Dieck (Göttingen)
K. Diederich (Wuppertal)
A. Dold (Heidelberg)
P. Dombrowski (Köln)
S.K. Donaldson (Oxford)
S. Donkin (London)
A. Douady (ENS Paris)
W. Ebeling (Bonn)
P. Eberlein (MPI/SFB)
J. Eells (Warwick)
H. Eggers (Regensburg)
J. Ehlers (MPI Phys. & Astrophys.)
P.E. Ehrlich (U. of Missouri)
M. Eichler (Basel)
H. Eliasson (MPI/SFB)
O. Endler (Bonn und IMPA)
D. Erle (Dortmund)
H. Esnault (MPI/SFB)
G. Faltings (Wuppertal)
G. Fischer (Düsseldorf)
H. Flenner (Göttingen)
E. Friedlander (North Western U.)
S. Friedlander (U. of Chicago)
S. Gallot (Paris VII)
G. van der Geer (Amsterdam)
E.U. Gekeler (Bonn)
H. Grauert (Göttingen)
R. Greene (UCLA)
G.M. Greuel (Kaiserslautern)
B. Gross (Brown U.)
F. Grunewald (Bonn)
R. Gupta (Brown U.)
F. v. Haeseler (Bremen)
H. Hamm (Münster)
G. Harder (Bonn)
J. Harris (Brown U.)
F. Hegenbarth (Dortmund)
E. Heintze (Münster)
J. Heinze (Springer Verlag)
G. Helminck (Amsterdam)
R. Henderiks (Rotterdam)
M. Herrmann (Köln)
S. Hildebrandt (Bonn)
U. Hirsch (Bielefeld)
F. Hirzebruch (MPI und U. Bonn)
T. Höfer (MPI/SFB)
J. Huebschmann (Heidelberg)
K. Hulek (Erlangen)
J. Hurrelbrink (Louisiana State U.)
D. Husemoller (Haverford College)
H.-C. Im Hof (Basel)
K. Ivinskis (Bonn)
S. Jackowski (ETH Zürich)
J.C. Jantzen (Bonn)
B. Julia (E.N.S. Paris)
H. Jürgens (Bremen)
W. van der Kallen (Utrecht)
W. Kamber (U. of Illinois)
H. Karcher (Bonn)
M. Karoubi (Sceaux)

U. Karras (Dortmund)
 J. Kazdan (U. of Pennsylvania)
 I. Kersten (Regensburg)
 M. Kervaire (Genf)
 F. Kirwan (Harvard)
 N. Klingen (Köln)
 W. Klingenberg (Bonn)
 P. Kluitmann (MPI/SFB)
 K. Knapp (Wuppertal)
 H. Knörrer (Bonn)
 F. Koll (Bonn)
 J. Konarski (Bochum)
 K. Kopfermann (Hannover)
 S. Kosarew (Regensburg)
 U. Koschorke (Siegen)
 M. Kossowski (Rice U.)
 B. Kostant (MIT)
 H. Kraft (Basel)
 G. Kramarz (Bonn)
 J. Kramer (Basel)
 M. Krämer (Bayreuth)
 M. Kreck (Mainz)
 F.-V. Kuhlmann (Heidelberg)
 K. Kühne-Hausmann (Bonn)
 W. Kühnel (TU Berlin)
 N. Kuiper (IHES)
 R.S. Kulkarni (Indiana U.)
 B.A. Kupershmidt (U. of Tennessee)
 N. Kuznetsov (Khabarovsk)
 C. Lackschewitz (Berlin)
 K.Y. Lam (U. of British Columbia)
 R. Lamotke (Köln)
 S. Lang (Yale U.)
 J. Langer (MPI/SFB)
 M. Laska (MPI/SFB)
 K. Lebelt (Essen)
 R. Lee (Yale U.)
 L. Lemaire (Brüssel)
 M. Levine (U. of Pennsylvania)
 I. Lieb (Bonn)
 J. Little (Holy Cross)
 M. Lorenz (MPI/SFB)
 J. Marsden (UC, Berkeley)
 S. Maurmann (Bonn)
 K.-H. Mayer (Dortmund)
 B. Mazur (Harvard)
 J. McCarthy (MPI/SFB)
 J. Mesirov (AMS)
 W. Meyer (MPI/SFB)
 W.T. Meyer (Münster)
 H. Miller (U. of Washington)
 T. Miller (Bonn)
 P. Milman (Toronto)
 M. Min-Oo (Bonn)
 G. Mislin (Zürich)
 V. Moncrief (Yale U.)
 B. Moonen (Köln)
 R. Moore (Canberra)

B.Z. Moroz (MPI/SFB)
 D. Morrison (Princeton)
 G.D. Mostow (Yale U.)
 P. Mrozek (Siegen)
 Y. Namikawa (MPI/SFB)
 H.J. Nastold (Münster)
 W.D. Neumann (U. of Maryland)
 W.-M. Ni (U. of Minnesota)
 T. Nishimori (Hokkaido U.)
 K. Nomizu (Brown U.)
 E. Oeljeklaus (Münster)
 A. Ogg (Orsay)
 R. Olivier (Bonn)
 F. Oort (Utrecht)
 E. Ossa (Wuppertal)
 J.-P. Otal (MPI/SFB)
 M. Otte (Bielefeld)
 A. Parshin (Steklov Inst., Moskau)
 G. Patrizio (MPI/SFB)
 H.-O. Peitgen (Bremen)
 A. Pereira do Valle (Bonn)
 Th. Peterzell (Münster)
 Ch. Peters (Leiden)
 V.Q. Phong (Bremen)
 A. Pickl (Regensburg)
 B. Pickl (Regensburg)
 R. Piene (Oslo)
 U. Pinkall (MPI/SFB)
 P. Platonov (Minsk)
 H. Popp (Heidelberg)
 V. Poupko (Wien)
 A. Prestel (Konstanz)
 M. Prüfer (Bremen)
 V. Puppe (Konstanz)
 R.M. Range (SUNY, Albany)
 T. Ratiu (UC, Berkeley)
 B. Reinhart (U. of Maryland)
 R. Remmert (Münster)
 D. Repovs (Ljubljana)
 K. Ribet (UC, Berkeley)
 D. Richter (Bremen)
 O. Riemenschneider (Hamburg)
 J. Rohlf (Eichstätt)
 G. Roland (Bonn)
 M. Rost (Regensburg)
 E. Ruh (Bonn)
 J.M. Sampson (Baltimore)
 E. Sato (MPI/SFB)
 D. Saupe (Bremen)
 N. Schappacher (MPI/SFB)
 A. Scharf (Bonn)
 R. Scharlau (Bielefeld)
 W. Schelter (U. of Texas)
 K.D. Schewe (Bonn)
 U. Schmickler-Hirzbruch (Vieweg Vlg.)
 W. Schmid (Harvard)
 C.-G. Schmidt (IHES)
 G. Schneider (Kaiserslautern)

P. Schneider (Heidelberg) D. Zagier (MPI und U. of Maryland)
 R. Schön (Heidelberg) G. Zeidler (Leipzig)
 R. Schoof (U. of Maryland)
 F. Schreyer (Kaiserslautern)
 M. Schroeder (Göttingen)
 G. Schumacher (Münster)
 J. Schwermer (Bonn)
 R. Sczech (MPI/SFB)
 D. Segal (Manchester)
 G. Segal (Oxford)
 W. Seiler (Mannheim)
 J.-P. Serre (Collège de France)
 D. Siersma (Utrecht)
 Y.-T. Siu (Harvard)
 B. Smyth (Notre Dame)
 Ch. Soulé (Paris VII)
 E. Spanier (MPI/SFB)
 B. Speh (Cornell U.)
 C. Spönemann (Hannover)
 J. Steenbrink (Leiden)
 J. Stienstra (Utrecht)
 R. Strebel (Heidelberg)
 J. Strooker (Utrecht)
 U. Stuhler (Wuppertal)
 S. Suter (MPI/SFB)
 L. Szpiro (ENS Paris)
 Ch. Thomas (Cambridge)
 K. Timmerscheidt (Essen)
 J. Tits (Collège de France)
 A. Todorov (Sofia)
 P. Tondeur (U. of Illinois)
 G. Trautmann (Kaiserslautern)
 G. Triantafillou (U. of Minnesota)
 A. Tromba (UC, Santa Cruz)
 G. Tsagas (Thessaloniki)
 A. Tschimmel (Wuppertal)
 T. Tsuboi (Tokyo)
 A. Van de Ven (Leiden)
 P. Verheyen (Leuven)
 E. Viehweg (Essen)
 M.-F. Vigneras (ENSJF Paris)
 W. Vogel (Halle)
 T. Vorst (Rotterdam)
 F. Waldhausen (Bielefeld)
 C.T.C. Wall (Liverpool)
 N. Walter (Mannheim)
 M. Wang (McMaster U.)
 L. Washington (U. of Maryland)
 H.C. Wente (U. of Toledo)
 J. Werner (MPI/SFB)
 A. Wiles (Princeton)
 K. Wirthmüller (Regensburg)
 J. Wolfart (Frankfurt)
 S. Wolpert (U. of Maryland)
 P.-M. Wong (Notre Dame)
 J. Wood (Chicago)
 G. Wüstholtz (MPI/SFB)
 M. Yoshida (MPI/SFB)