

## Scientific talks since October 2000 - delivered by members of the research group of R. Kellerhals

### since October 2000

*"Invariants of hyperbolic manifolds"*

mini-course by R. Kellerhals

Geometrie-Tagung, Mathematisches Forschungsinstitut Oberwolfach, 27.9. – 3.10.2000

*"Quaternions et géométrie hyperbolique en dimension 4 et 5"*

Talk by R. Kellerhals

Universität Genf, Colloque, 14.12.2000.

### 2001

*"On the thin part of hyperbolic manifolds"*

Talk by R. Kellerhals

MPI für Mathematik in den Naturwissenschaften Leipzig, Oberseminar Geometrie, 25.1.2001.

*"Les polyèdres en diverses géométries"*

Talk by R. Kellerhals

Université de Bordeaux I, Plan Académique de Formation PAF, 7.3.2001.

*"Sur la partie mince des variétés hyperboliques"*

Talk by R. Kellerhals

Universität Neuchâtel, Colloque, 27.3.2001.

*"Reducing the amount of analysis in the classical proof of Mostow's Rigidity Theorem"*

Talk by K. Falk

Technische Universität Clausthal, Kolloquium Mathematische Physik, 6.7.2001.

*"Quaternions and the Margulis constant in hyperbolic 5-space"*

Talk by R. Kellerhals

Séminaire Algèbre et Géométrie, EPF Lausanne, 2.11.2001.

*"Polylogarithms and hyperbolic volume"*

Talk by R. Kellerhals

Geometry and Topology Seminar, University of Aarhus, 4.12.2001.

*"Sur la constante de Margulis pour l'espace hyperbolique"*

Talk by R. Kellerhals

Séminaire de Géométrie, Université de Strasbourg, 17.12.2001.

### 2002

*"Diameter versus volume of hyperbolic manifolds"*

Talk by M. Steiner

Geometry Meeting, Neuchâtel, 13.2.2002.

*"Coxeter decompositions of hyperbolic polyhedra"*

Talk by A. Felikson

Université de Fribourg, Colloque, 7.5.2002.

*"On the thin part of hyperbolic manifolds"*

Talk by R. Kellerhals

Janós Bolyai Conference, Budapest, 9.7.2002.

*"Hyperbolic Geometry in the Large"*

Talk by R. Kellerhals

Jahresversammlung der Schweizerischen Mathematischen Gesellschaft (SMG),  
Davos, 19.9.2002.

*"Nilpotent groups in Riemannian geometry"*

Talk by Patrick Ghanaat

Universität Fribourg, Colloquium, 29.10.2002.

*"Le polylogarithme en géométrie hyperbolique"*

Talk by R. Kellerhals

Université de Lausanne, Colloquium, 15.11.2002.

*"Polylogarithmen und hyperbolische Geometrie"*

Talk by R. Kellerhals

Universität Dortmund, Colloquium, 02.12.2002.

## 2003

*"Sur le volume des simplexes hyperboliques idéaux"*

Talk by R. Péreyrol

Universität Fribourg, Kolloquium, 28.01.2003.

*"Polytopes in spaces of constant curvature"*

Talk by T. Zehrt

Universität Bern, Graduate Seminar on Geometry, 07.02.2003.

*"Exemples de constructions arithmétiques"*

Talk by R. Péreyrol

Journées de préparation du séminaire *Groupe fondamental des variétés hyperboliques* aux Diablerets, Université de Neuchâtel, 06.03.2003.

*"Combinatorial-topological aspects of hyperbolic volume"*

Talk by R. Kellerhals

AMS Special Session *Algebraic and Topological Combinatorics*,  
Spring Eastern Section Meeting, Courant Institute New York, 13.04.2003.

*"Polylogarithms, hyperbolic volume and Mahler measure"*

Talk by R. Kellerhals

Conference *The many aspects of Mahler's measure*,  
Pacific Institute for the Mathematical Sciences, Banff, 30.04.2003.

*"Riccikrümmung, Bettizahlen und Eigenwerte des Laplaceoperators"*

Talk by Patrick Ghanaat

Universität Greifswald, Colloquium, 20.05.2003.

*"The many aspects of hyperbolic volume"*

Talk by R. Kellerhals

Université de Genève, Séminaire de géométrie, 30.05.2003.

*"Bochner's theorem and eigenvalue pinching"*

Talk by P. Ghanaat

Conference *Workshop on Curvature and Global Shape*, Universität Münster, 05.08.2003.

*"Cours intensif de géométrie riemannienne"*

Lecture series by P. Ghanaat

Ecole doctorale de mathématiques Genève-Neuchâtel, September 1 – 12, 2003.

*"Part I: Non-euclidean volume: Introduction and survey"; "Part II: Hyperbolic volume: Higher dimensional computations and open problems"*

Two talks by R. Kellerhals

Conference *Workshop on Hyperbolic Volumes*, Organiser: J. Murakami, Waseda University, Tokyo, December 2003.

## 2004

*"Nilpotent structures according to Cheeger, Fukaya, and Gromov"*

Talk by P. Ghanaat  
Universität Bern, 09.01.2004

*"The Malcev completion of a nilpotent group"*

Talk by P. Ghanaat  
Université de Neuchâtel, 18.02.2004.

*"On the growth of hyperbolic Coxeter groups"*

Talk by R. Kellerhals  
Conference *AMS Special Session on "Algebraic geometry and topology"*, Spring Southeastern Section Meeting, Tallahassee (Florida), March 2004.

*"Surfaces de Riemann en petit genre"*

Talk by A. Casamayou-Boucau  
Different seminars at the Universities of Montpellier, Toulouse, Grenoble, Nantes, Paris VI, Lille, Vannes, spring 2004

*"Aspects of hyperbolic space forms"*

Talk by R. Kellerhals  
Symposium *The Coxeter Legacy: Reflections and Projections*, Fields Institute, Toronto, May 2004.

*"Zur Struktur hyperbolischer Raumformen"*

Talk by R. Kellerhals  
Oberseminar Differentialgeometrie, Universität Münster, 25.07.2004.

*"Structure of bounded curvature collaps"*

Talk by P. Ghanaat  
Conference *Workshop on Collapsing and Metric Geometry*, Universität Münster, August 2004.

*"On the structure of hyperbolic manifolds"*

Talk by R. Kellerhals  
Conference *Conference on discrete groups and hyperbolic manifolds*, University of Aberdeen, August 2004.

*"On the structure of hyperbolic space forms"*

Talk by R. Kellerhals  
Conference *Geometrie-Tagung*, Mathematisches Forschungsinstitut Oberwolfach, October 2004.

*"Zur Geometrie von Horosphären"*

Talk by P. Ghanaat  
Universität Basel, "Kolloquium zur Geometrie und Geschichte", 28.10.2004.

*"Altes und Neues zur Minkowski-Addition"*

Talk by A. Bernig  
Universität Fribourg, Kolloquium, 02.11.2004.

*"Limites de Gromov-Hausdorff dans les familles définissables"*

Talk by A. Bernig  
Université de Marseille, November 2004.

*"The complete non-compact hyperbolic 4-orbifold of minimal volume"*

Talk by T. Hild  
Universität Bern, Graduate Seminar on Geometry, 10.12.2004.

*"Tenseurs de courbure des ensembles singuliers"*

Talk by A. Bernig  
Université de Nice, December 2004.

## 2005

*"Coxetergruppen in der hyperbolischen Geometrie"*

Talk by R. Kellerhals

Universität Darmstadt, "Baer-Kolloquium", 22.01.2005.

*"Lattices, packings and hyperbolic cusps"*

Talk by R. Kellerhals

University of Durham, Colloquium, 21.02.2005.

*"On the geometry of Clifford matrices"*

Talk by R. Kellerhals

University of Durham, North British Geometric Group Theory Seminar, 23.02.2005.

*"Polylogarithms, hyperbolic volume and Mahler measure"*

Talk by R. Kellerhals

University of Warwick, Hyperbolic Geometry Seminar, 25.02.2005.

*"Hyperbolic Coxeter groups and space forms"*

Talk by R. Kellerhals

University of Warwick, Colloquium, 25.02.2005.

*"Hyperbolic volume"*

Talk by R. Kellerhals

University of Southampton, Geometry Seminar, 02.03.2005.

*"Crystallographic groups and hyperbolic orbifolds"*

Talk by R. Kellerhals

University of Southampton, Colloquium, 04.03.2005.

*"Isoperimetric inequalities in Heisenberg groups"*

Talk by A. Bernig

Universität Basel, Mini-Workshop "Isoperimetric inequalities in Lie groups", March 2005.

*"Valuations on manifolds and the Rumin-de Rham complex"*

Talk by A. Bernig

ETH Zürich, Seminar, April 2005.

*"Winkelsumme 131 Grad"*

Talk by T. Hild

Math.-Natw. Fakultät Universität Fribourg, Tage der Offenen Tür, Murten 23.05.2005.

*"Zum Laplacespektrum von Nilmannigfaltigkeiten"*

Talk by P. Ghanaat

Universität Augsburg, Oberseminar Differentialgeometrie, 24.06.2005.

*"Valuations on manifolds and the Rumin-de Rham complex"*

Talk by A. Bernig

EPF Lausanne, "XXth Nevanlinna Colloquium", 12.08.2005.

*"Support functions and the construction of the normal cycle"*

Talk by A. Bernig

Universität Passau, Conference "Real Algebraic and Analytic Geometry", September 2005.

*"Integral geometry, currents and cohomology"*

Talk by A. Bernig

EPF Lausanne, Workshop on "Integral and Random Geometry", December 2005.

## 2006

*"Valuations lisses et cohomologie de Rumin-de Rham"*

Talk by A. Bernig

Université Strasbourg, Séminaire de géométrie, January 2006.

*"Polylogarithms and non-Euclidean volume"*

Talk by R. Kellerhals

University of Auckland, Seminar on Algebra, Geometry and Combinatorics, 20.02.2006.

*"Small volume cusped hyperbolic orbifolds"*

Talk by T. Hild

University of Auckland, Seminar on Algebra, Geometry and Combinatorics, 13.02.2006.

*"Some aspects of higher dimensional geometry"*

Talk by R. Kellerhals

University of Auckland, Colloquium, 23.02.2006.

*"Smooth valuations, Rumin cohomology and the Hard Lefschetz Theorem"*

Talk by A. Bernig

University of Georgia, 2 weeks research stay, February 2006.

*"Hyperbolic groups, volume and growth"*

Lecture series by R. Kellerhals

Research Institute for Mathematical Sciences RIMS, Kyoto, 25. and 26.04.2006.

*"Eigenvalue pinching on differential forms"*

Talk by P. Ghanaat

ETH Zürich, Geometry Seminar, 03.05.2006.

*"Basic aspects of non-euclidean volume", "Various applications of hyperbolic volume", "Further aspects and open volume problems"*

Lecture series by R. Kellerhals

Department of Mathematical Sciences, Seoul National University, 02. and 04.05.2006.

*"Small volume hyperbolic orbifolds"*

Talk by R. Kellerhals

Seminar on low dimensional topology and geometry, Osaka University, 09.05.2006.

*"Hauteurs de sous-espaces et variétés abéliennes"*

Talk by C. Liebendörfer

Institut Fourier, Grenoble I, Séminaire de Théorie des Nombres", 10.05.2006.

*"Lattices and hyperbolic cusps"*

Talk by R. Kellerhals

Colloquium, Osaka City University, 10.05.2006.

*"Heights over division algebras and degrees of abelian varieties"*

Talk by C. Liebendörfer

CIRM / Luminy, Conference "Approximation diophantienne et nombres transcendants", September 4–8, 2006.

## 2007

*"Equations in groups"*

Talk by L. Ciobanu

Cluse mathematical school in group theory, Dijon, 28.10.2007.

*"The generic Hanna Neumann Conjecture"*

Talk by L. Ciobanu

Groups and Geometry Seminar, Neuchâtel, 14.11.2007.

*"The diophantine problem in groups"*

Talk by L. Ciobanu

Geometry Seminar, ETH Zürich, 05.12.2007.

*"Killing and hyperbolic space forms of small volume"*

Talk by R. Kellerhals

Wilhelm Killing Conference: Lie Theory and geometry, Münster, 08.12.2007.

*"Pointes hyperboliques à bord polyédral convexe"*

Talk by F. Fillastre

Geometry Seminar, EPF Lausanne, 13.12.2007.

## 2008

*"Hyperbolic isometry groups and small volume"*

Talk by R. Kellerhals

Kovalevskaya Lecture, BMS Fridays Colloquium, Urania Berlin, 25.01.2008.

*"Growth of hyperbolic Coxeter groups"*

Talk by R. Kellerhals

Forschungsseminar, HU Berlin, 29.01.2008.

*"A Hadwiger-type theorem for the special unitary group"*

Talk by A. Bernig

Workshop on "Convex and Stochastic Geometry", Vienna, 01.2008.

*"Arithmetic covolume of the modular group"*

Talk by V. Emery

Third Graduate Colloquium of the Swiss Doctoral Program in Mathematics, Bern, 24.01.2008.

*"Valuations and Rumin cohomology"*

Talk by A. Bernig

Kolloquium, Jena, 02.2008.

*"Théorème d'Alexandrov et variétés hyperboliques à bord convexe"*

Talk by F. Fillastre

Séminaire de Géométrie, LABAG, Bordeaux, 04.04.2008.

*"Théorème d'Alexandrov et variétés hyperboliques à bord convexe"*

Talk by F. Fillastre

Séminaire de Géométrie, Nantes, 11.04.2008.

*"Coloured posets and their homology with applications to knot theory"*

Talk by P. Turner

ETH Zürich Topology Seminar, 28.04.2008.

*"Finding hyperbolic arithmetic orbifolds of minimal volume"*

Talk by V. Emery

Topology Seminar, Austin (U Texas), 05.05.2008.

*"Coloured posets and their homology with applications to knot theory"*

Talk by P. Turner

EPF Lausanne Topology Seminar, 05.05.2008.

*"Preparation course for the Séminaire Borel: New approaches to curvature"*

2 talks by P. Ghanaat

Fribourg, June 2-4, 2008.

*"Hyperbolic Coxeter groups"*

Talk by A. Felikson

Seminar, EPF Lausanne, 05.06.2008.

*"Coloured posets and their homology with applications to knot theory"*

Talk by P. Turner

Montpellier Conference "Tresses, noeuds et applications", 10.06. 2008.

*"Small eigenvalues of the Hodge Laplacian"*

Talk by P. Ghanaat

Oberseminar Differentialgeometrie, Ruhr-Universität Bochum, 12.6.2008.

*"Hyperbolische Spiegelungsgruppen und Raumformen von minimalem Volumen"*

Talk by R. Kellerhals

Kolloquium, U. Erlangen, 24.06.2008.

*"Volume entropy of Hilbert metrics"*

Talk by A. Bernig

Geometry Conference, MFO Oberwolfach, 07.2008.

*"Coxeter groups and growth series"*

Talk by G. Perren

Number Theory Seminar, University of Edmonton (Canada), 07.08.2008.

*"Hyperbolic reflection groups"*

4 talks by A. Felikson and P. Tumarkin

Summer School "Bounded cohomology, Coxeter Groups and Hyperbolic Geometry",  
Fribourg, August 18 – 20, 2008.

*"Coxeter groups and growth series"*

Talk by G. Perren

Fourth Graduate Colloquium of the Swiss Doctoral Program in Mathematics,  
Neuchâtel, 10.09.2008.

*"The generic Hanna Neumann Conjecture"*

Talk by L. Ciobanu

CRM Barcelona, Group Theory Seminar, 06.10.2008.

*"Reflection subgroups of Coxeter groups"*

Talk by A. Felikson

Universität Zürich, Geometry Seminar, 15.10.2008.

*"Géométrie intégrale des espaces hermitiens"*

Talk by A. Bernig

Université de Dijon, Seminar Geometry, 22.10.2008.

*"A combinatorial approach to the systole of hyperbolic surfaces"*

Talk by M. Gendulpe

EPF Lausanne, Geometry and Ergodic Theory Seminar, 30.10.2008.

*"Reflection subgroups of Coxeter groups"*

Talk by A. Felikson

Université de Genève, Algebra and Geometry Seminar, 06.11.2008.

*"On equations in tree-free groups"*

Talk by L. Ciobanu

Université Lyon, Group, Geometry and Logic Seminar, 20.11.2008.

*"Homology of algebras with coefficients in a graph"*

Talk by P. Turner

Maxwell Institute Edinburgh, Seminar, 25.11.2008.

*"Systolic landscape in characteristic  $-1$ "*

Talk by M. Gendulpe

Université de Genève, Algebra and Geometry Seminar, 02.12.2008.

*"On equations in tree-free groups"*

Talk by L. Ciobanu

University Southampton, Bristol-Oxford-Southampton Group Theory Meeting, 04.12.2008.

*"Khovanov homology and presheaves of modules over posets"*

Talk by P. Turner

Institut Mathématiques de Jussieu, Séminaire, 09.12.2008.

## 2009

*"Sheaves of modules over posets and Khovanov homology"*

Talk by P. Turner

University of Washington, AMS meeting, Special Session, 07.01.2009.

*"Presheaves, posets and Khovanov homology"*

Talk by P. Turner

University of Washington, Conference on "Knots in Washington XXVII", 10.01.2009.

*"Extremalprobleme im hyperbolischen Raum"*

Talk by R. Kellerhals

Universität Darmstadt, Kolloquium, 14.01.2009.

*"On hyperbolic orbifolds of small volume"*

Talk by R. Kellerhals

Max-Planck-Institut für Mathematik Bonn, 15.01.2009.

*"An introduction to exterior differential systems"*

Talk by T. Mettler

University of Fribourg, Fifth Graduate Colloquium of the Swiss Doctoral Program in Mathematics, 30.01.2009.

*"Hermitesche Integralgeometrie"*

Talk by A. Bernig

Universität Ulm, Kolloquium, 03.02.2009.

*"Generic behavior in free groups"*

Talk by L. Ciobanu

University Southampton, Algebra Seminar, 03.02.2009.

*"Arithmetic covolume of the modular group"*

Talk by V. Emery

University Durham, Geometry Seminar, 05.02.2009.

*"Algebraic integral geometry"*

Talk by A. Bernig

Blaubeuren, 15th Workshop on "Stochastic geometry, Stereology, and Image Analysis", 24.03.2009.

*"Symmetrien und Extremaleigenschaften in negativer Krümmung"*

Talk by R. Kellerhals

Universität Basel, "Perlen-Kolloquium", 26.03.2009.

*"Géométrie intégrale des espaces hermitiens"*

Talk by A. Bernig

Université de Chambéry, Séminaire, 24.04.2009.

*"Algebraic integral geometry"* Talk by A. Bernig

Universität Münster, Seminar, 11.05.2009.

*"The monomorphism problem in free groups"*

Talk by L. Ciobanu

University Nebraska, "International Conference on Geometric and Combinatorial Methods in Group and Semigroup Theory", 17.05.2009.

*"From G-structures to Cartan geometries and back"*

Talk by T. Mettler

University of Fribourg, Oberseminar Geometrie und Topologie, 13.05.2009.

*"Géométrie intégrale des espaces hermitiens"*

Talk by A. Bernig

Université de Strasbourg, Séminaire, 08.06.2009.

*"Algebraic integral geometry"*

Talk by A. Bernig

University Tel Aviv, Conference on "The state of Geometry and Functional Analysis", 26.06.2009.

*"Integral geometry of transitive group actions"*

Talk by A. Bernig



University Wien, Conference on "Convex and Discrete Geometry", 15.07.2009.

*"Decision problems in free groups"*

Talk by L. Ciobanu

University Novi Sad, "14th Meeting of European Women in Mathematics", 26.08.2009.

*"On decision problems in free groups and their asymptotic behavior"*

Talk by L. Ciobanu

Université de Genève, Séminaire d'Algèbre et Géométrie", 22.09.2009.

## 2010

*"On equations in tree-free groups"*

Talk by L. Ciobanu

University of Newcastle, Group Theory Seminar, 28.01.2010.

*"Metrizability of path geometries"*

Talk by G. Berck

MFO Oberwolfach, Mini-Workshop on "Valuations and Integral Geometry", January 2010.

*"Applications récentes de la théorie des distributions en géométrie convexe et géométrie de Finsler"*

Talk by G. Berck

Laboratoire de Mathématiques Paul Painlevé, Séminaire de Géométrie & Dynamique, January 2010.

*"Introduction to Khovanov homology" and "Presheaves of modules in Khovanov homology"*

Talks by P. Turner

New Zealand Institute of Mathematics and its Applications, "Topological Quantum Field Theory and Knot Homology Theory", January 2010.

*"Hyperbolic Geometry and Coxeter Groups"*

Lecture series by R. Kellerhals

Osaka City University, OCAMI, 25. - 29.01.2010.

*"Decision problems in free groups and their complexity"*

Talk by L. Ciobanu

University of Southampton, Colloquium, 29.01.2010.

*"Systolic inequalities for hyperbolic surfaces"*

Talk by M. Gendulpe

Université de Strasbourg, Séminaire de Géométrie et Topologie, 01.02.2010.

*"Growth of hyperbolic Coxeter groups"*

Talk by R. Kellerhals

University of Osaka, Topology Seminar, 02.02.2010.

*"On equations in tree-free groups"*

Talk by L. Ciobanu

Warwick University, Algebra Seminar, 04.02.2010.

*"Dehn's algorithm"*

Talk by M. Gendulpe

Université Fribourg, Preparatory Lecture for the Spring School "Geometry, Topology and Computation in Groups", 24.02.2010.

*"The homology of directed graphs and Hochschild homology"*

Talk by P. Turner

Universität Bern, Kolloquium, 01.03.2010.

*"Cartan Hadamard Theorem"*

Talk by P. Ghanaat

Université de Neuchâtel, Groupe de Travail Dynamique en courbure négative, 04.03.2010

*"Covolumes of hyperbolic Coxeter groups"*

Talk by R. Kellerhals

Braniewo, 2nd Killing-Weierstrass Colloquium, 25.03.2010.

*"Models of real hyperbolic space and its isometries"*

Talk by A. Kolpakov

Université de Neuchâtel, Seminar "Geometry and dynamics in negative curvature", 25.03.2010.

*"On the existential and elementary theory of groups"*

Talk by L. Ciobanu

Universität Bern, "Workshop on Algebra and Logic", 08.04.2010.

*"Boundary at infinity of Hadamard manifolds" and "Busemann functions and horospheres"*

Talks by M. Gendulphé

Université Neuchâtel, Seminar on negatively curved spaces, 01./15.04.2010.

*"Systole and volume of hyperbolic noncompact manifolds"*

Talk by M. Gendulphé

Université de Dijon, Séminaire de Géométrie et Systèmes dynamiques, 29.04.2010.

*"Hyperbolic geometry and volumes of Coxeter polyhedra"*

Talk by R. Kellerhals

Aalto University, Helsinki, Colloquium, 27.05.2010.

*"Small eigenvalues of the Hodge Laplacian"*

Talk by P. Ghanat

Universität Augsburg, Oberseminar Differentialgeometrie, 16.07.2010.

## 2011

*"Nilpotente Gruppen in der Riemannschen Geometrie"*

Talk by P. Ghanat

Universität Jena, Oberseminar Analysis, 17.01.2011.

*"Khovanov homology"*

Talk by P. Turner

Winter School in Mathematical Physics, Les Diablerets, 30.01. - 04.02.2011.

*"Real reflections, commutators and cross-ratios in complex hyperbolic space"*

Talk by J. Paupert

University of Durham, Geometry Seminar, 03.02.2011.

*"Hochschild homology, chromatic graph homology and the homology of digraphs"*

Talk by P. Turner

University of Geneva, 03.03.2011.

*"Real and complex hyperbolic lattices"*

Talk by J. Paupert

SUNY at Buffalo, Special Colloquium, march 2011.

*"New non-arithmetic lattices in  $SU(2,1)$ "*

Talk by J. Paupert

Rice University, Ahlfors-Bers Colloquium, special session on *Structures*, 24.03.2011.

*"Real and complex hyperbolic lattices"*

Talk by J. Paupert

Arizona State University, Special Colloquium, 29.03.2011.

*"The golden section, trilogarithms and hyperbolic volume"*

Talk by R. Kellerhals

Université de Dijon, Colloque, 30.03.2011.

*"Extremal geometry of hyperbolic noncompact manifolds"*

Talk by M. Gendulphé

Université de Toulouse, Séminaire de géométrie, 05.04.2011.

*"Extremal geometry of hyperbolic noncompact manifolds"*

Talk by M. Gendulphe

Université de Genève, Group and Geometry Seminar, 19.04.2011.

*"The homotopy theory of Khovanov homology"*

Talk by P. Turner

Conference *Swiss Knots 2011*, Thun, 23.05. - 27.05.2011.

*"Lectures on buildings"*

4 (invited) lectures by B. Everitt

University of Fribourg, 20.06. - 24.06.2011.

*"Hyperbolic orbifolds of small volume"*

Talk by R. Kellerhals

University of Durham, LMS - EPSRC Durham Symposium on *Geometry and Arithmetic of Lattices*, 11.07.2011.

*"Non-arithmetic lattices in complex hyperbolic geometry, part 2"*

Talk by J. Paupert

University of Durham, LMS - EPSRC Durham Symposium on *Geometry and Arithmetic of Lattices*, 11.07.2011.

*"Bounding the systole of cusped hyperbolic manifolds"*

Talk by M. Gendulphe

Les Diablerets, Borel Seminar 2011, 22.08.2011.

*"Right-angles, hyperbolicity and dimension"*

Talk by A. Kolpakov

Universität Basel, *8th Graduate Colloquium*, 08.09.2011.

*"Bounding the systole of cusped hyperbolic manifolds"*

Talk by M. Gendulphe

KIAS Seoul, Workshop on *Hyperbolic Geometry, Bounded Cohomology and Symmetric Spaces*, 08.09.2011.

*"Small hyperbolic orbifolds, scissors congruence and arithmetic"*

Talk by R. Kellerhals

DMV Jahrestagung, Köln, Sektion Geometrie und Topologie, 20.09.2011.

*"Polyhedra generating discrete reflection groups"*

Talk by Y. Umemoto (Osaka City University / Fribourg)

Université de Fribourg, Oberseminar Geometrie, 28.09.2011.

*"Extremal geometry of hyperbolic noncompact manifolds"*

Talk by M. Gendulphe

Université de Grenoble, Séminaire de théorie spectrale et géométrie, 13.10.2011.

*"Extremal geometry of hyperbolic noncompact manifolds"*

Talk by M. Gendulphe

Université de Lille, Séminaire de géométrie, 21.10.2011.

*"Growth of hyperbolic reflection groups"*

Talk by A. Kolpakov

Université Paris-Jussieu, Parole aux jeunes chercheurs, 22.11.2011.

*"Metric invariants of cusped hyperbolic manifolds"*

Talk by M. Gendulphe

Université Paris-Jussieu, Parole aux jeunes chercheurs, 22.11.2011.

*"The 24-cell: geometric and combinatorial optimality"*

Talk by A. Kolpakov

Université de Fribourg, Oberseminar Geometrie, 23.11.2011.

*"On the tropical compactification of Teichmüller-like parameter spaces"*

Talk by Daniele Alessandrini

Université de Fribourg, Oberseminar Geometrie, 30.11.2011.

*"Geometry of polyhedra and cone-manifolds in negative and positive curvature"*

Talk by A. Kolpakov

Waseda University, RIKO Topology Seminar, 05.12.2011.

## 2012

*"Integral norms and hölder estimates under curvature bounds"*

Talk by P. Ghanaat

MFO Oberwolfach, Mini-Workshop "Manifolds with lower curvature bounds", 03.01.2012.

*"Highly symmetric hyperbolic polytopes"*

Talk by R. Kellerhals

Queenstown (New Zealand), Conference and MAGMA Workshop 14.02.2012

*"Growth of cocompact hyperbolic Coxeter groups with many variables"*

Talk by R. Kellerhals

Mini-Workshop on *Growth*, 22.02.2012

*"Some new developments on hyperbolic space forms in dimension 5"*

Talk by R. Kellerhals

Osaka City University, OCAMI-Colloquium, 21.03.2012.

*"The discovery of hyperbolization of a knot complement, I, II"*

Talks by M. Jacquemet

University of Auckland (New Zealand), Topology Seminar, 23.03. and 30.03.2012.

*"Applications of holonomic approximation I, II"*

Talk by P. Ghanaat

Universität Bern, 25.04.2012, 09.05.2012.

*"Hyperbolic Coxeter groups and minimal growth rate"*

Talk by R. Kellerhals

Mittag-Leffler Institut (Djursholm, Sweden), Seminar, 26.04.2012.

*"Triangulations idéales et coordonnées shear sur les surfaces de type infini"*

Talk by D. Alessandrini

Université de Strasbourg, Séminaire de Géométrie, 07.05.2012.

*"Minimal volume tessellations in hyperbolic space"*

Talk by R. Kellerhals

University of Linköping, Colloquium, 09.05.2012.

*"The inradius of a compact hyperbolic simplex"*

Talk by M. Jacquemet

Université de Neuchâtel, 9th Graduate Colloquium, 18.06.2012.

*"Hyperbolic Coxeter groups and minimal growth rate"*

Talk by R. Kellerhals

Universität Bielefeld, Conference *Lie Groups and Algebraic Groups*, 23.07.2012.

*"On the optimality of the ideal right-angled 24-cell"*

Talk by A. Kolpakov

Universität Bielefeld, Conference *Lie Groups and Algebraic Groups*, 23.07.2012.

*"Small covolume and growth of hyperbolic Coxeter groups"*

Talk by R. Kellerhals

Mathematisches Forschungsinstitut Oberwolfach, Conference *Low-Dimensional Topology and Number Theory*, 27.08.2012.

*"Ricci bounds and their implications on topology"*

Talk by P. Ghanaat

Séminaire Borel "*h*-principle in geometry and topology", Les Diablerets, 05.09.2012.

*"Dimension constraints for hyperbolic Coxeter polytopes"*

Talk by A. Kolpakov

Universität Bern, Workshop on *Algebra and Geometry*, 10.09.2012.

*"On the rigidity of the asymmetric distance for surfaces with boundary"*

Talk by D. Alessandrini

Université de Fribourg, Oberseminar Geometrie, 19.09.2012.

*"On the growth of certain cocompact Coxeter groups in hyperbolic 4-space"*

Talk by Y. Umemoto (Osaka City University / Fribourg)

Université de Fribourg, Oberseminar Geometrie, 26.09.2012.

*"Cofinite hyperbolic Coxeter groups, minimal growth rate and Pisot numbers"*

Talk by R. Kellerhals (Fribourg)

Université de Fribourg, Oberseminar Geometrie, 03.10.2012.

*"Growth rates of Coxeter groups acting in hyperbolic plane and space, algebraic integers and co-volumes"*

Talk by A. Kolpakov (Fribourg)

Université de Genève, Séminaire "Groupes et géométrie", 09.10.2012.

*"Hyperbolic geometry and moduli spaces of polygons"*

Talk by J. Granier (Grenoble / Fribourg)

Université de Fribourg, Oberseminar Geometrie, 24.10.2012.

*"Examples of non-arithmetic non-coherent groups"*

Talk by S. Thomson

Université de Fribourg, Conference *Journées de Géométrie Hyperbolique*, 21.11.2012.

*"The Brauer-Grothendieck group"*

Talk by R. Guglielmetti (Fribourg)

Université de Fribourg, Oberseminar Geometrie, 28.11.2012.

*"Ideal right-angled polytopes in  $\mathbb{H}^4$  and octahedrites"*

Talk by A. Kolpakov (Fribourg)

Università di Pisa, Seminario di Geometria, 28.11.2012.

*"Hyperplane separability"*

Talk by S. Thomson (Fribourg)

Université de Fribourg, Oberseminar Geometrie, 05.12.2012.

*"Les polyèdres hyperboliques rectangulaires idéaux en dimension quatre et leurs propriétés optimales"*

Talk by A. Kolpakov (Fribourg)

Université de Lille, Séminaire "Géométrie Dynamique", 07.12.2012.

*"Hyperbolic volume, estimates, and simplices"*

Talk by M. Jacquemet (Fribourg)

Universität Basel, Topology Seminar, 07.12.2012.

## 2013

*"The inner radius of a hyperbolic  $n$ -simplex"*

Talk by M. Jacquemet (Fribourg)

Université de Fribourg, Oberseminar Geometrie, 06.03.2013.

*"Growth and covolume of hyperbolic Coxeter groups"*

Talk by R. Kellerhals (Fribourg)

North British Geometric Group Theory Seminar, University of Durham, 20.06.2013.

*"Deformation theory and finite simple quotients of triangle groups"*

Talk by C. Marion (Fribourg)

Workshop *Permutation groups*, BIRS, Canada. Seminar, 22.07.2013.

*"Finite simple quotients of triangle groups"*

Talk by C. Marion (Fribourg)

University of Auckland, Algebra Seminar, 06.08.2013.

*"Minimality properties of hyperbolic Coxeter orbifolds"*

Talk by R. Kellerhals (Fribourg)

Workshop *Exotic Geometric Structures*, ICERM (Brown University), Providence, 16.09.2013.

*"The inradius of a hyperbolic truncated simplex"*

Poster presentation by M. Jacquemet (Fribourg)

Workshop *Exotic Geometric Structures*, ICERM (Brown University), Providence, 18.09.2013.

*"Dreiecke mit Winkelsumme null ?"*

Talk by R. Kellerhals (Fribourg)

TecDay (SATW), Modul D10, Collège St. Michel, Fribourg, 20.11.2013.

*"Short geodesics in hyperbolic manifolds"*

Talk by S. Thomson (Fribourg)

Institut Fourier, Grenoble, 04.12.2013.

*"Short geodesics and non-arithmetic groups"*

Talk by S. Thomson (Fribourg)

Université de Neuchâtel, Seminar 'Groups and Analysis', 17.12.2013.

## 2014

*"Hyperbolic orbifolds of minimal volume"*

Talk by R. Kellerhals (Fribourg)

Universität Bonn, Geometric Topology Seminar, 14.01.2014.

*"Hyperbolic Coxeter groups, minimal growth and minimal covolume"*

Talk by R. Kellerhals (Fribourg)

Osaka City University, Workshop 'Growth 2', 04.02.2014.

*"Lorentzian lattices, arithmetic groups and hyperbolic geometry"*

Talk by S. Thomson (Fribourg)

Seminaire Kervaire, Les Diablerets, 14.03.2014.

*"Hyperbolic space forms of minimal volume"*

Talk by R. Kellerhals (Fribourg)

NUI Maynooth, Colloquium, 26.03.2014.

*"Growth of hyperbolic Coxeter groups"*

Talk by R. Kellerhals (Fribourg)

EPF Lausanne, Geometry Seminar, 19.05.2014.

*"Groupes de Coxeter et polyèdres de Coxeter hyperboliques"*

Talk by R. Kellerhals (Fribourg)

Université de Poitiers, Colloque, 05.06.2014.

*"Deformation theory and finite simple quotients of triangle groups"*

Talk by C. Marion (Fribourg)

XXIII Brazilian Algebra Meeting, Session Group Theory,

Universidade Estadual de Maringá, 01.08.2014.

*"Commensurability of hyperbolic Coxeter groups"*

Talk by R. Kellerhals

Mathematisches Forschungsinstitut Oberwolfach, Conference *Low-Dimensional Topology and Number Theory*, 21.08.2014.

*"Non-arithmetic hyperbolic manifolds via short closed geodesics"*

Talk by S. Thomson (Fribourg)

MPI Mathematik Bonn, Oberseminar Differentialgeometrie, 21.08.2014.

*"Two reflective hyperbolic lattices"*

Talk by S. Thomson (Fribourg)

Université de Fribourg, Oberseminar Geometrie, 24.09.2014.

*"La vie et l'oeuvre de Ludwig Schäfli: son rôle sous-estimé dans le développement des mathématiques"*

Talk by R. Kellerhals (Fribourg)

Conference *Convegno per docenti di matematica delle SMS*, Liceo cantonale di Locarno, 03.10.2014.

*"Groupes et polyèdres de Coxeter hyperboliques : invariants et commensurabilité"*

Talks by M. Jacquemet and R. Guglielmetti (Fribourg)

Workshop *Parole aux Jeunes chercheurs en Géométrie et Dynamique*, GDR Platon, Université Bordeaux, 27.11.2014.

## 2015

*"Commensurability of hyperbolic Coxeter polyhedra with  $n + 2$  facets"*

Talk by M. Jacquemet (Fribourg)

Conference *Intuitive Geometry, László Fejes Tóth Centennial*, University of Budapest, 27.06.2015.

*"Hyperbolic Coxeter groups and commensurability"*, parts I, III

Talks by R. Kellerhals (Fribourg)

RIMS, Kyoto University, RIMS Symposium on Geometry and Analysis of Discrete Groups and Hyperbolic Spaces, Oberseminar Geometrie, 23.06. and 25.06.2015.

*"Hyperbolic Coxeter groups and commensurability"*, part II

Talk by R. Guglielmetti (Fribourg)

RIMS, Kyoto University, RIMS Symposium on Geometry and Analysis of Discrete Groups and Hyperbolic Spaces, 24.06.2015.

*"Hyperbolic Coxeter pyramids and commensurability"*, parts I and II

Talks by R. Kellerhals (Fribourg)

Workshop *Hyperbolic geometry beyond dimension three*, AIM SQuaRE, San Jose, 20. and 21.07.2015.

*"Hyperbolic truncated simplices and reflection groups"*,

Talk by M. Jacquemet (Fribourg)

Conference *Lie Groups and Algebraic Groups*, Universität Bielefeld, 23.07.2015.

*"Commensurability of hyperbolic Coxeter groups"*

Talk by R. Kellerhals (Fribourg)

Workshop *Geometry of Discrete Actions*, ICTP Trieste, 31.08.2015.

*"The discrete curvature: from Jacob Steiner to the present"*

Talk by I. Izestiev (Fribourg)

Colloquium, Université Fribourg, 06.10.2015.

*"Commensurability of arithmetic hyperbolic Coxeter groups"*

Talk by R. Guglielmetti (Fribourg)

Workshop *Journées de Géométrie Hyperbolique*, Université Fribourg, 15.10.2015.

*"Über Ellipsen"*

Talk by I. Izestiev (Fribourg)

Informationstage für Schüler, Université Fribourg, 18.11.2015.

*"Orthoschemes and hyperbolic orbifolds of small volume"*

Talk by R. Kellerhals (Fribourg)

Conference *7. Thüringer Geometrietag*, Universität Jena, 04.12.2015.

## 2016

*"Connecting balanced triangulations by cross-flips"*

Talk by I. Izmistiev (Fribourg)

Discrete Geometry Seminar, FU Berlin, 07.01.2016.

*"Hyperbolic volume, commensurability and Problem 23 of Thurston"*

Talk by R. Kellerhals (Fribourg)

Conference *Symmetries and covers of discrete objects*, Queenstown, New Zealand, 19.02.2016.

*"Dreiecke mit Winkelsumme null ?"*

Talk by R. Kellerhals (Fribourg)

TecDay, Bündner Kantonsschule Chur, 26.02.2016.

*"Hyperbolic volume and commensurability"*

Talk by R. Kellerhals (Fribourg)

Workshop *Growth 3*, Waseda University, Tokyo, 31.03.2016.

*"(CoxIter - ) Computing invariants of hyperbolic Coxeter groups"*

Talk by R. Guglielmetti (Fribourg)

Geometry Seminar, Vanderbilt University, April 2016.

*"Ivory's and Arnold's theorems on the sphere and in the hyperbolic space"*

Talk by I. Izmistiev (Fribourg)

Workshop *Integrability and Near-Integrability in Mechanics and Geometry*, Oaxaca (Mexico), 16.06.2016.

*"Hyperbolic 5-volume and trilogarithms"*, parts I and II

Talks by R. Kellerhals (Fribourg)

Workshop *Hyperbolic geometry beyond dimension three*, AIM SQuaRE, San Jose, 18. and 20.07.2016.

*"Hyperbolic Coxeter groups and polyhedra"*

Talks by R. Guglielmetti (Fribourg)

Workshop *Computational Group Theory*, MFO Oberwolfach, 04.08.2016.