

The Mathematical Colloquia is a distinguished series of talks with a long tradition. The first Colloquium was held in 1987 and the original motivation was to enrich the mathematical life in Prague by inviting some of the key mathematicians and computer scientists of our time. The Colloquia were established by Jaroslav Nešetřil and originally organized by the [Department of Applied Mathematics \(KAM\)](#) under the name KAM Mathematical Colloquia. Now they are run jointly by the Department of Applied Mathematics and Computer Science Institute of Charles University (CSI/IUUK); Jaroslav Nešetřil remains the main organizer. At a frequency of about 2-3 Colloquia per year the following lectures were presented:

1. L. Lovasz
2. P. Erdos
3. R. Tijdeman
4. A. Ambrosetti
5. F. Hirzebruch
6. H. Bauer
7. V. Chvatal
8. B. Korte
9. J. Seidel
10. V. G. Kac
11. G. Choquet
12. D. J. A. Welsh
13. J. G. Thompson
14. H. Furstenberg
15. S. Cook
16. K. Mehlhorn
17. S. Todorovic
18. J. J. Kohn
19. C. Thomassen
20. A. Borel
21. N. Alon
22. Victor Klee - [Shapes Of The Future](#), September 26, 1995
23. Joel Spencer - [Asymptotic Packing](#), October 5, 1995
24. Joram Lindenstrauss - [Non Linear Geometric Theory Of Banach Spaces](#), October 19, 1995
25. Andrzej Schinzel - [The Mahler Measure Of Polynomials In Several Variables](#), March 15, 1996
26. Peter J. Cameron - [Sum-Free Sets](#), May 28, 1996
27. M. Laczkovich
28. Benoit Mandelbrot - [Sum-Free Sets](#), November 21, 1996
29. David Preiss - [Lipschitzovska Zobrazeni](#), March 27, 1997
30. Jan Nekovar - [Hodnoty Zeta-Funkci](#), May 13, 1997
31. Volker Strassen - [Algebra And Complexity](#), December 4, 1997

32. Jennifer Chayes - [Birth Of The Infinite Cluster: Finite-Size Scaling In Percolation](#), April 7, 1998
33. Bernhard Banaschewski - [Propositional Theories, Frames And Fuzzy Algebra](#), February 9, 1999
34. Louis H. Kauffman - [Introduction To Quantum Link Invariants](#), March 16, 1999
35. Gilles Pisier - [Similarity Problems For Hilbert Space Operators And Related Algebras](#), June 4, 1999
36. Aleksander Pelczynski - [Sobolev Spaces As Banach Spaces](#), May 12, 2000
37. Claude Berge - [Mathe'Matique Et Litte'Rature](#), December 8, 2000
38. Vera T. Sos - [Order, Disorder And What Is In Between?](#), December 15, 2000
39. Martin Groetschel - [Frequency Assignment In Mobile Phone Systems](#), February 1, 2001
40. Rainer E. Burkard - [Selected Topics On Assignment Problems](#), March 15, 2001
41. Herbert S. Wilf - [Search Engines, Eigenvectors, And Chromatic Numbers](#), May 4, 2001
42. Michael Waterman - [A New Approach To Dna Sequence Assembly](#), June 1, 2001
43. Micha Sharir - [Recent Developments In The Theory Of Arrangements Of Surfaces](#), May 22, 2001
44. Ernst Specker - [Modular Counting](#), March 5, 2002
45. Beno Eckmann - [4-Manifolds And Groups-Some Aspects Of A Partnership](#), April 23, 2002
46. Theodore A. Slaman - [Aspects Of The Turing Jump](#), March 6, 2003
47. Xavier G. Viennot - [Combinatorics For Quantum Gravity](#), April 10, 2003
48. Cheryl Praeger - [Computers In Algebra: First Came Answers And Then More Questions](#), June 19, 2003
49. Keith Ball - [Entropy Growth For Sums Of Independent Random Variables](#), December 16, 2003
50. Anatoly Vershik - [Universality And Randomness In The Theory Of Graphs And Metric Spaces](#), March 8, 2005
51. Michael Aschbacher - [Finite Simple Groups](#), May 24, 2004
52. Michele Emmer - [Mathematics And Culture](#), January 13, 2005
53. Ehud Friedgut - [Some Applications Of Fourier Analysis In Combinatorics](#), February 2, 2005
54. Ben Green - [Arithmetic Progressions In The Primes](#), February 9, 2005
55. Miklos Simonovits - [Turan Problems, Ramsey Problems, Simple And Random-Looking Extremal Structures](#), February 23, 2005
56. Klaus Schmidt - [Dynamical Systems Arising From Algebra](#), May 26, 2005
57. N. Linial
58. Gil Kalai - [Convexity, Convex Polytopes And Combinatorics](#), February 22, 2006
59. Endre Zemerédi - [Long Arithmetic Progressions In Subset Sums](#), March 10, 2006
60. Miroslav Fiedler - [Topics From Combinatorial Matrix Theory](#), May 11, 2006
61. Dominique Foata - [Statistical Distributions On Weyl Groups](#), May 17, 2006
62. Henryk Iwaniec - [Recent Progress In Prime Number Theory](#), June 6, 2006
63. Bruce Reed - [Graph Colouring Via The Probabilistic Method](#), November 23, 2006
64. Alain Louveau - [Borel And Analytic Equivalence Relations](#), January 23, 2007
65. Vitaly Bergelson - [Ergodic Theorems Along Polynomials: From Combinatorial Applications To Challenges For Physicists](#), January 25, 2007
66. John Friedlander - [Introduction To Sieve Methods](#), April 24, 2007
67. Avi Wigderson - [The Power And Weakness Of Randomness In Computation](#), April 27, 2007
68. Vojtech Rodl - [On The Regularity Lemma For Hypergraphs And Its Applications](#), April 27, 2007

69. Juan Luis Vázquez - [The Theories Of Nonlinear Diffusion](#), November 20, 2008
70. Slawomir Solecki - [Extreme Amenability, Ramsey Theorems, And Concentration Of Measure](#), January 19, 2010
71. Ralph Mckenzie - [A Combustible Mix: Finite Algebras, Graphs, And The Csp-Dichotomy Conjecture](#), March 11, 2010
72. Andrew Odlyzko - [Providing Security With Insecure Systems](#), May 31, 2010
73. Ronald Graham - [The Combinatorics Of Solving Linear Equations](#), June 16, 2010
74. Balázs Szegedy - [The Regularity Lemma And Beyond](#), June 16, 2010
75. Mark V. Sapir - [Geometry Of Groups And Computational Complexity](#), June 17, 2010
76. Benny Sudakov - [Extremal Graph Theory And Its Applications](#), March 14, 2011
77. Michel Waldschmidt - [Transcendence Of Periods](#), November 10, 2011
78. Venkatesan Guruswami - [List Error-Correction Algorithms: A Survey](#), November 22, 2011
79. Tomasz Luczak - [Graph Thresholds](#), December 2, 2011
80. Michel L. Balinski - [Don't Vote!: Judge](#), February 10, 2012
81. Gregory L. Cherlin - [Model Theory And Finite Groups](#), July 26, 2012
82. Béla Bollobás - [Bootstrap Percolation - Recent Probabilistic Results](#), January 8, 2013
83. Michael Krivelevich - [Intelligence Vs Randomness: The Power Of Choices](#), March 27, 2013
84. Vijay V. Vazirani - [New \(Practical\) Complementary Pivot Algorithms For Market Equilibria](#), June 5, 2013
85. Ryan Williams - [Recent Progress In Non-Uniform Circuit Complexity](#), June 21, 2013
86. Michael Aizenman - [Disorder Effects On Quantum Spectra And Dynamics](#), August 22, 2013
87. Gregory F. Lawler - [Random Fractals Arising From Statistical Physics](#), August 27, 2013
88. Damien Gaboriau - [Measured Group Theory, Percolation And Non-Amenability](#), December 12, 2013
89. Michel Mendes - [Exponential Sums, Geometry And Diffraction Of Light](#), April 3, 2014
90. Ivar Ekeland - [On The Variational Principle](#), November 7, 2014
91. David Brydges - [Quantum Field Theory In Terms Of Random Walk](#), November 29, 2014
92. Peter Van Emde Boas - [The History Of The Van Emde Boas Trees](#), November 18, 2014
93. Harald Helfgott - [The Ternary Goldbach Conjecture](#), December 19, 2014
94. Emmanuel Candes - [Robust Principal Component Analysis?](#), February 4, 2015
95. Kaoru Ono - [Lagrangian Floer Theory](#), February 17, 2015
96. Moshe Vardi - [The Sat Revolution: Solving, Sampling, And Counting](#), September 16, 2015 ([video](#))
97. Benjamin Weiss - [Dynamical Systems And Ramsey Theory](#), October 27, 2016 ([video](#))
98. Carl Pomerance - [Random Number Theory](#), November 8, 2016 ([video](#))
99. Jacob Fox - [Arithmetic Regularity, Removal, And Progressions](#), 22. November 2016 ([video](#))
100. Jaroslav Nešetřil - [Matematika A Umění](#), March 16, 2016 ([video](#))
101. Achim Jung - [On A Combinatorial Problem Arising From Denotational Semantics](#), May 9, 2017 ([video](#))
102. Jean-Bernard Lasserre - [Moments & Positive Polynomials For Optimization And More](#), May 16, 2017 ([video](#))
103. Van Vu - [Real Roots Of Random Polynomials](#), June 27, 2017 ([video](#))
104. Boris Zilber - [On Logic, Geometry And Transcendental Number Theory](#), October 23, 2017 ([video](#))
105. Moni Naor - [White-Box Vs. Black-Box Search Problems: A Cryptographic Perspective](#), December 1, 2017 ([video](#))

106. Christos Papadimitriou - [A Computer Scientist Thinks About The Brain](#), June 11, 2018
107. Vladimir Sverak - [Is The Navier--Stokes Equation Complete As A Mathematical Model?](#), June 12, 2018
108. Robert J. Aumann - [Strategic Information Theory](#), October 8, 2018
109. Mikkel Thorup - [Deterministic Edge Connectivity In Near-Linear Time](#), December 5, 2018
110. Uri Feige - [On Ramsey Multiplicities And Half-Ramsey Graphs](#), December 5, 2018
111. Mario Szegedy - [The Art And Craft Of Quantum Circuit Design](#), December 5, 2018
112. Marc Noy - [Logic And Random Graphs](#), December 5, 2018
113. Christian Krattenthaler And Emil Viklický - [Mathematics And Music](#), December 12, 2019
114. Sergei K. Lando - [The Unreasonable Effectiveness Of Geometry In Combinatorial Problems](#), February 18, 2020
115. ---
116. Alexander Schrijver - [On Three Easy \(To Understand\) Graph Problems](#), March 5, 2020
117. Miklós Abért - [Groups, Graph Limits And Locally Symmetric Spaces](#), November 25, 2021 ([video](#))
118. Zdeněk Dvořák - [Structural Aspects Of Sublinear Separators](#), March 5, 2020
119. Ramamohan Paturi - [Introduction To Fine-Grained Complexity](#), June 24, 2022 ([video](#))
120. Michael Arbib - [From Neural Networks And Automata To Architecture](#), November 3, 2021 ([video](#))
121. Ehud Hrushovski - [Elementary Ramsey Theory, Approximate Subgroups and a Model-Theoretic Galois Group](#), January 5, 2023
122. Alexander David Scott - [Graphs of large chromatic number](#), February 2, 2023
123. William Cook - [The Traveling Salesman Problem](#), April 6, 2023
124. Luca Trevisan - [Sparse Approximations of Graphs, Hypergraphs and Matrices](#), October 2, 2023
125. Andrew Granville - [What is the role proof plays in pure mathematical research and will AI change that?](#), November 9, 2023