Program

Friday 5 April

11.00-12.00	Registration in "Vandrehallen" (Bldg. 1530, 1. floor)
12.00-13.00	Lunch in the Mathematics Canteen
13.00-13.10	Welcome in Auditorium E
13.10-14.10	Plenary I in Auditorium E
	Jeremy Gray (The Open University, UK) EMS Distinguished Speaker On the cusp of the new physics: Henri Poincaré and mathematical physics one hundred years ago
14.10-14.30	Coffee break in "Vandrehallen"
14.30-15.10	Parallel Sessions I in Auditorium E, D1, D2, D3, D4 & G1
15.20-16.00	Parallel Sessions II in Auditorium E, D1, D2, D3, D4 & G1
16.30-17.30	Plenary II in Auditorium E
	Uffe Haagerup (Copenhagen University)
	Approximation properties for groups and C*-algebras
18.30	Reception at Aarhus Town Hall

Saturday 6 April

09.30-10.30	Plenary III in Auditorium E
	Henri Berestycki (CAMS at EHESS, France) Propagation in non homogeneous media and applications
10.30-11.00	Coffee break in "Vandrehallen"
11.00-11.40	Parallel Sessions III in Auditorium D1, D2, D3, D4, G1 & G2

11.50-12.30	Parallel Sessions IV in Auditorium D1, D2, D3, D4, G1 & G2
12.30-13.30	Lunch in the Mathematics Canteen
13.30-14.10	Parallel Sessions V in Auditorium D1, D2, D3, D4, G1 & G2
14.20-15.00	Parallel Sessions VI in Auditorium D1, D2, D3, D4, G1 & G2
15.00-16.00	Poster session & coffee break in "Vandrehallen"
16.00-17.00	Plenary IV in Auditorium E
Herbert Ec Geometry,	lelsbrunner (IST, Austria) Probability, and Topology Just to Measure Length
18:00-21:00	Conference Dinner in the Mathematics Canteen

Sunday 7 April

09.30-10.30	Plenary V in Auditorium E
	Carsten Thomassen (Technical University of Denmark) Decompositions and orientations of graphs
10.30-10.40	Poster prize & goodbye in Auditorium E
10.40-11.00	Coffee break in "Vandrehallen"
11.00-11.40	Parallel Sessions VII in Auditorium D1, D2, D3, D4, G1 & G2
11.50-12.30	Parallel Sessions VIII in Auditorium D1, D2, D3, D4, G1 & G2
12.30-13.30	Lunch in the Mathematics Canteen

Parallel Sessions

Parallel Session I – Friday at 14.30-15.10

Aud. D1 (1531-113) Algebra and Number Theory Michel Waldschmidt (Paris VI) *Diophantine equations, old and new*

Aud. D2 (1531-119) Algebraic Topology **George Raptis** (Osnabrück) *Cobordism categories and the A-theory characteristic*

Aud. D3 (1531-215) History of Mathematics **Erhard Scholz** (Wuppertal) *Epicyclic models and heliocentrism -- a commentary on pre-Ptolemaic astronomy*

Aud. D4 (1531-219) Quantum and Riemannian Geometry **David Brander** (DTU) *Loop groups in geometry and singularities*

Aud. G1 (1532-116) Stochastics and Free Probability **Philippe Biane** (Paris-Est Marne-Ia-Vallee) *Concavification of free entropy and the additivity problem*

Partial Differential Equations and Applications No Lecture

Parallel Session II – Friday at 15.20-16.00

Aud. D1 (1531-113) Algebra and Number Theory Nadim Rustom (Copenhagen) *Generators of graded rings of modular forms*

Aud. D2 (1531-119) Algebraic Topology **Michal Adamaszek** (Bremen) *Graph-theoretic methods in combinatorial algebraic topology*

Aud. D3 (1531-215) History of Mathematics Jesper Lützen (Copenhagen) *Impossibility: The Classical Problems*

Aud. D4 (1531-219) Quantum and Riemannian Geometry **Thomas Kragh** (Uppsala) *Fibrancy of Symplectic Homology in Cotangent Bundles*

Aud. G1 (1532-116) Stochastics and Free Probability **Ion Nechita** (CNRS, Toulouse) *Positive and completely positive maps via free additive powers of probability measures*

Partial Differential Equations and Applications No Lecture

Parallel Session III – Saturday at 11.00-11.40

Aud. D1 (1531-113) Algebra and Number Theory **Pierre Parent** (Bordeaux) *Diophantine approaches of modular curves*

Aud. D2 (1531-119) Algebraic Topology Angela Klamt (Copenhagen) Universal operations in higher Hochschild homology

Aud. D3 (1531-215) History of Mathematics **Frédéric Brechenmacher** (Université d'Artois & Ecole polytechnique) *The 1874 controversy between Camille Jordan and Leopold Kronecker*

Aud. D4 (1531-219) Quantum and Riemannian Geometry Mattias Dahl (KTH, Stockholm) On the mass of asymptotically hyperbolic manifolds

Aud. G1 (1532-116) Stochastics and Free Probability Serban Belinschi (Queen's) Analytic subordination for free convolutions Partial

Aud. G2 (1532-122) Differential Equations and Applications **Erik Skibsted** (Aarhus) *Decay of bound states of elliptic PDE's*

Parallel Session IV – Saturday at 11.50-12.30

Aud. D1 (1531-113) Algebra and Number Theory Fabien Pazuki (Bordeaux & Copenhagen) *On a conjecture of Lang and Silverman*

Aud. D2 (1531-119) Algebraic Topology **Sune Precht Reeh (Copenhagen)** *Burnside rings and fusion systems*

Aud. D3 (1531-215) History of Mathematics **Colin McLarty** (Case Western Reserve) *The two careers of Emmy Noether*

Aud. D4 (1531-219) Quantum and Riemannian Geometry **Hartmut Weiss** (LMU Munich) *A flow approach to special holonomy A flow approach to special holonomy*

Aud. G1 (1532-116) Stochastics and Free Probability Octavio Arizmendi (Saarland) Free and Boolean Stable Laws

Aud. G2 (1532-122) Partial Differential Equations and Applications **Snorre Christiansen** (Oslo) *Finite element systems of differential forms*

Parallel Session V – Saturday at 13.30-14.10

Aud. D1 (1531-113) Algebra and Number Theory **Dmitry Badziahin** (Durham) *Badly approximable points on manifolds*

Aud. D2 (1531-119) Algebraic Topology John Foley (Copenhagen) *Kac-Moody groups via homotopy*

Aud. D3 (1531-215) History of Mathematics **Renaud Chorlay** (Paris IV) *Bourbaki's reception of Elie Cartan's work*

Aud. D4 (1531-219) Quantum and Riemannian Geometry William Kirwin (Cologne) *Momentum Space for Compact Lie Groups*

Aud. G1 (1532-116) Stochastics and Free Probability **Francois Baccelli** (INRIA & ENS) *Capacity and Error Exponents of Stationary Point Processes under Random Additive Displacements*

Aud. G2 (1532-122) Partial Differential Equations and Applications **Mathieu Lewin** (CNRS & Cergy-Pontoise) *Derivation of Hartree's theory for generic mean-field Bose gases*

Parallel Session VI – Saturday at 14.20-15.00

Aud. D1 (1531-113) Algebra and Number Theory Lillian Pierce (Oxford) *Counting rational points on smooth cyclic covers*

Aud. D2 (1531-119) Algebraic Topology **Rosona Eldred** (Hamburg) *Always-cartesian cubes and wrong-way maps*

Aud. D3 (1531-215) History of Mathematics Frédéric Jaëck (SPHERE, CNRS) Operations in Functional Analysis

Aud. D4 (1531-219) Quantum and Riemannian Geometry Johan Martens (Aarhus) Compactifications of reductive groups, non-abelian symplectic cutting and geometric quantisation of non-compact spaces

Aud. G1 (1532-116) Stochastics and Free Probability **Markus Kiderlen** (Aarhus) Can Random Sets Help to Assess Precision of Local Algorithms in Image Analysis?

Aud. G2 (1532-122) Partial Differential Equations and Applications Assyr Abdulle (Lausanne) Analysis of a multiscale method for quasilinear elliptic homogenization problems

Parallel Session VII – Sunday at 11.00-11.40

Aud. D1 (1531-113) Algebra and Number Theory **Stephen Harrap** (Aarhus) *Mixed' problems in Diophantine approximation*

Aud. D2 (1531-119) Algebraic Topology **Hubert Wagner** (Jagiellonian University & IST Austria) *Persistent homology in text mining*

Aud. D3 (1531-215) History of Mathematics **Norbert Schappacher** (IRMA) *On the history of mathematics in the 1930s*

Aud. D4 (1531-219) Quantum and Riemannian Geometry **Graeme Segal** (Oxford) *TBA*

Aud. G1 (1532-116) Stochastics and Free Probability **Susanne Ditlevsen (Copenhagen)** Only through perturbation can relaxation times be estimated

Aud. G2 (1532-122) Partial Differential Equations and Applications Anna-Karin Tornberg (KTH, Stokholm) *Accelerated boundary integral simulations*

Parallel Session VIII – Sunday at 11.50-12.30

Aud. D1 (1531-113) Algebra and Number Theory Flemming von Essen (Copenhagen) A Distribution Result Related to Automorphic Forms

Aud. D2 (1531-119) Algebraic Topology **Ulrich Bauer** (IST Austria) *Homological reconstruction and simplification*

Aud. D3 (1531-215) History of Mathematics **Tinne Hoff Kjeldsen** (Roskilde) *The shaping of a theory of systems of linear inequalities in the 20th century: Contexts, aims and views of mathematics*

Aud. D4 (1531-219) Quantum and Riemannian Geometry **Rinat Kashaev** (Geneve) *Edge state integrals on shaped triangulations*

Aud. G1 (1532-116) Stochastics and Free Probability Fred Esben Benth (Oslo) The stochastics of energy markets

Aud. G2 (1532-122) Partial Differential Equations and Applications Michael Vogelius (Rutgers) *Approximate Electromagnetic Cloaking*