Program of the Conférence Moshé Flato 1999

Université de Bourgogne, Dijon, September 5 – 8 1999

Inaugural meeting

Under the auspices of Édith Cresson, former Prime Minister

Chaired by Hubert Curien, Academy of Sciences, former Minister of Research

Sunday September 5, Cellier de l'Espace Grévin, Dijon

15:30 Opening by Bernard Laurin, President of the University
Speech by Hubert Curien, Academy of Sciences

Messages from
Édith Cresson, read by Hubert Curien
Yvette Chassagne, read by Chantalle Reimeringer
Clarice Schwinger and Kay & Leon Cooper, read by Noriko Sakurai
Ed Witten, read by Ruth Boulet-Kerins
GU ChaoHao (Shanghai and Academia Sinica), read by RAO BoPeng

Speeches by:
Huzihiro Araki (Tokyo and Kyoto)
Jerôme Lichnerowicz (André's son)
Bernard Loiseau (Chef of *La Côte d'Or*, Saulieu)
Bengt Nagel (KTH, former president of the Nobel Committee for Physics)
Konrad Osterwalder (Rector of ETH, Zürich)

Music:
Chopin: *Nocturne in C Minor and Andante, Pianato, Grande Polonaise*
interpreted by Eugen Indjic, piano

Université de Bourgogne's medal awarded to I. Flato-Izakson, A. Connes, M. Kontsevich, Y. Aharonov, and B. Nagel.

17:00 *Short break*

Speeches by Irit Flato-Izakson and Joseph Sack, with slide show
Moshé d'après lui-même, in English, by Daniel Sternheimer

Montage video:
Extracts from the *Colloque Louis de Broglie,* November 6–7, 1987
Polac's TV program *Faut-il brûler le CNRS ?* November 1985
The scientific council of UAP, September 1987
Seminar in Dijon, 1995

Music:
Michio Miyagi: *Haru no Umi* and Kozaburo Hirai: *Sakura Sakura*
interpreted by Tomoko Ojima, piano

Songs by Civia Millender and Margalit Izakson, accompaniment at the guitar by Évariste: *Golden Jerusalem* (Naomi Shemer, 1967); *Ma mie* (Évariste);
Song for peace (lyrics by Yair Rosenblum, sung by Y. Rabin just before his assassination)

Short break

19:00 *Apéritif, followed by a buffet by Lenôtre (and Loiseau)*
23:00 *End*

Applications of sciences to finance and insurance

Under the auspices of Denis Kessler
President of the Fédération Française des Sociétés d'Assurances

Chaired by Dominique Perrin, President of the Université de Marne-la-Vallée

Monday September 6, in the University, Bâtiment Sciences Mirande

9:15 – 9:30	Opening of the special session and of the scientific conference by Arthur Jaffe and Daniel Sternheimer
9:30 – 10:10	Introduction: Yvette Chassagne, Honorary Chairperson of UAP (presented by Roland Lejart, former General Director of UAP) *Le Conseil scientifique de l'UAP et ses réalisations* Erik Taflin (AXA) *A new method for optimal equity allocation and portfolio selection*
10:10 – 10:50	Jean-Claude Simon† PDG, A2iA and Emeritus professor, Université Paris VI *La reconnaissance automatique de l'écriture manuscrite*
10:50 – 11:30	Hélyette Geman Professor of Finance, Université Paris IX and ESSEC *From Bachelier and Lundberg to insurance derivatives*
12:00 – 14:00	Lunch at *Clos du Roy* in Chenôve

Quantization, deformations, and symmetries

Monday September 6

9:15 – 9:30 Opening of the special session and of the scientific conference by Arthur Jaffe and Daniel Sternheimer

9:30 – 14:00 Get together session with informal discussions and organization of seminars and poster sessions; lunch

14:30 – 15:25 Yakir Aharonov (U. South Carolina and Tel-Aviv)
A new approach to quantum mechanics
Chair: Paul Sally (Chicago)

15:40 – 16:35 Elliott Lieb (Princeton)
Stability of matter and the self-energy of an electron in non-perturbative quantum electrodynamics
Chair: Marcel Guenin (Geneva)

– Coffee break –

17:15 – 18:10 Sergio Ferrara (CERN and UCLA)
Superconformal field theories, multiplet shortening, and the $AdS_5/SCFT_4$ correspondence
Chair: Robert Finkelstein (UCLA)

18:25 – 19:20 Christian Frønsdal (UCLA)
Singletons and neutrinos
Chair: Piotr Rączka (Warsaw)

Tuesday September 7

9:15 – 10:10 Leon Takhtajan (SUNYSB)
Quantum field theories on an algebraic curve
Chair: J.-P. Labesse (Director of CIRM)

– Coffee break –

10:35 – 11:30 Maxim Kontsevich (IHES)
Geometry of the moduli space of non-commutative algebras
Chair: Hideki Omori (Science University of Tokyo)

11:45 – 12:40 Alain Connes (Collège de France)
Cyclic cohomology and Hopf algebras
Chair: Murray Gerstenhaber (U. Pennsylvania)

13:00 – 15:00 *Lunch and seminars by T. Kimura (Boston), M. Bordemann and S. Waldmann (Freiburg)*

15:00 – 15:55 Simone Gutt (ULB and Metz)
Variations on deformation quantization
Chair: Alan Weinstein (Berkeley)

16:10 – 17:05 Boris Fedosov (Moscow and Potsdam)
On G-trace and G-index in deformation quantization
Chair: Ryszard Nest (Copenhagen)

– Coffee break –

17:45 – 18:40 Louis Boutet de Monvel (Paris 6)
Real and complex star products
Chair: Yvette Kosmann-Schwarzbach (École polytechnique)

18:50 – 20:00 *Seminars by A. Karabegov (Erevan), A. Asada (Shinshu), and R. Léandre (Nancy); poster sessions*

Wednesday September 8

9:15 – 10:10 Jacques C. H. Simon (U. Bourgogne)
Nonlinear relativistic evolution equations: Survey of a new approach
Chair: Ivan Todorov (Sofia)

– Coffee break –

10:35 – 11:30 Bertram Kostant (MIT)
A cubic Dirac operator and a generalization of the Bott-Borel-Weil theorem
Chair: Nicolai Reshetikhin (Berkeley)

11:45 – 12:40 Wilfried Schmid (Harvard)
L-functions attached to Maass modular forms
Chair: Gérard Schiffmann (Strasbourg)

13:00 – 15:00 *Lunch and seminars by P. Rączka (Warsaw), J. Niederle (Prague), and M. Kontsevich (IHES)*

15:00 – 15:55 Jürg Fröhlich (ETHZ)
Classical limits of Bose systems
Chair: Jiri Niederle (Prague)

16:10 – 17:05 Ludwig Faddeev (St. Petersburg and Helsinki)
The modular double of a quantum group
Chair: Yuri Novozhilov (St. Petersburg)

17:30 – 19:00 Closure by Gilles Bertrand, vice president for research and former president of the University, and cocktail