



Egyptian Mathematical Society
Journal of the Egyptian Mathematical Society

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Preface to the Special issue of the Journal of the Egyptian Mathematical Society dedicated to the invited lectures of the Egypt–France Mathematical Conference

The Egypt–France Mathematical Conference (EFCM) has been held in Cairo, May 3–5, 2010. This was a meeting open to the various aspects of the mathematical researches carried out in both countries, with the objective to encourage interactions among participants, to promote new scientific collaborations, and to foster new scientific convergences at a regional level.

The Conference gathered more than 150 participants. There were 12 plenary lectures given at parity by Egyptian and French mathematicians: Nassar H. Abdel-All (Assiut University), Haroon Barakat (Zagazig University), Jean-Pierre Bourguignon (Institut des Hautes Etudes Scientifiques, Bures sur Yvette), Amr El Bakry (ExxonMobil Corporate Strategic Research, Annandale), Nicole El Karoui (Ecole Polytechnique, Palaiseau), Ahmed M. A. El-Sayed (Alexandria University), Bernard Helffer (Paris Sud University, Orsay) (President of the French Mathematical Society), Jean-Pierre Kahane (Paris Sud University, Orsay), Abdel-Shafi F. Obada (Al-Azhar University, Cairo) (President of the Egyptian Mathematical Society), Benoît Perthame (Pierre et Marie Curie Paris VI University), Tarek Sayed-Ahmed (Cairo University), and Cédric Villani (Institut Henri Poincaré, Paris) (2010 Fields medalist). Also, eight invited lectures were given by invited speakers from Mediterranean countries: Hajer Bahouri (University of Tunis), Gérard Besson (Joseph Fourier University, Grenoble), Mohamed Boucetta (University of Marrakech), Nidal Chamoun (Higher Institute for Applied Science and Technology, Damascus), Mustapha Jazar (Lebanese University, Tripoli), Zouhair Mouayn (Sultan Moulay Slimane University, Beni Mellal), Youssef Ouknine (University of Marrakech), and Mohamed Sifi (University of

Tunis). Moreover a general audience lecture « The modern mathematics in the seventeenth century and the Arab tradition: Al-Khayyām and Descartes » was given by Roshdi Rashed (Denis Diderot Paris 7 University and Mansura University). In addition to these invited lectures, more than 60 oral communications were given in parallel thematic sessions, and 11 posters were displayed in presence of their authors during a non parallelized poster session.

Organized in the framework of the 2010 France–Egypt Year of Science and Technology, the Conference had been preceded by a research school organized in January–February 2009 in Alexandria by the International Center for Pure and Applied Mathematics (ICPAM/CIMPA). The Conference was placed under the high patronage of the Egyptian Minister of Higher Education and of the Ambassador of France in Egypt, under the joint scientific sponsorship of the Society of Applied and Industrial Mathematics (SMAI), of the French Mathematical Society (SMF), and of the Egyptian Mathematical Society (ETMS), and under the auspices of a Scientific Honor Committee composed of Attia Ashour (Cairo University), Alain Connes (Collège de France, Paris), Pierre-Louis Lions (Collège de France, Paris), and Roshdi Rashed (Denis Diderot Paris 7 University and Mansura University). It was organized by an Egypt–France Organizing Committee composed of Mohamed Abdalla Darwish (Alexandria University, Damanhour), Bernard Di Martino (Pascal Paoli University, Corte), Ahmad El Soufi (François Rabelais University, Tours) (President), Mohamed H. Fahmy (Al-Azhar University, Cairo), Fabien Flori (French University of Egypt, Chourouk), François Murat (Pierre et Marie Curie Paris VI University), and Nabil Youssef (Cairo University). The organization of the Conference had been made possible thanks to the financial support of the International Center for Pure and Applied Mathematics (ICPAM/CIMPA), of the French-speaking University Agency (AUF), of the Embassy of France in Egypt, of the French University of Egypt (UFE), and of the Carrefour Group. More details on the Conference can be found on the web page <http://science.cfcc-eg.org/CFEM>.

This Special issue of the Journal of the Egyptian Mathematical Society gives a partial account of the scientific content

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of the Conference. It is devoted to the publication of lectures by plenary speakers and invited Mediterranean speakers and consists of nine contributions by plenary (five Egyptians and four French) speakers, and of six contributions by Mediterranean speakers.

This preface gives us a new opportunity to wish that the Egypt–France Mathematical Conference be followed by regular contacts and collaborations between mathematicians from Egypt, France and other Mediterranean countries.

The Organizing Committee