

**SCIENTIFIC & ORGANIZING COMMITTEE**

- Ali Benmakhlof, Professor of Philosophy at the University of Nice, France
- Ahmad Hasnawi, CNRS, Paris 7, France
- Olga Pombo, President of the Centre of Philosophy of Science, FCUL, Portugal
- Shahid Rahman, Professor of Logic and Epistemology at the University of Lille 3, France
- Roshdi Rashed, CNRS, Paris 7, France
- Hassan Tahiri, CFCUL, Portugal
- Nuno Melim, Scientific Collaborator at the CFCUL, Portugal

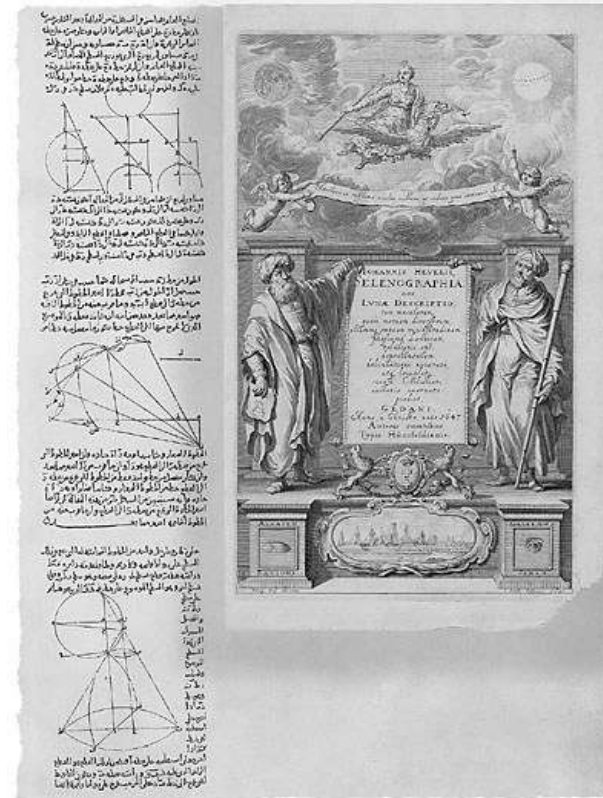
**THEME OF THE COLLOQUIUM**

In his *The Structure of Scientific Revolutions*, Kuhn develops a non-cumulative conception of the development of science. Indeed, in his view not only has the Copernican model introduced a major discontinuity in the history of science but the new paradigm and the old paradigm are incommensurable i.e. the gap between the two models are so huge that the changes introduced in the new model cannot be understood in terms of the concepts of the old one. By gathering several recent studies on Arabic Science, Logic and Epistemology, the aim of the colloquium is to examine to what extent the study of the Arabic tradition can bridge the gap assumed by Kuhn as a historical fact. It will give the world's leading scholars and experts the opportunity to discuss, in the light of new recently obtained results, the validity of Kuhn's thesis, the relevance of traditional dichotomies: Western/Eastern thought, modern/ancient science, and so on and to explore new lines of research aimed at providing a better explanation of the development of science as whole.

In this general context, one of the main reasons of holding the colloquium is to promote the dialogue between some of the authors of the volume *The Unity of Science in the Arabic Tradition* (edited par Rahman, Street and Tahiri, Springer 2008, xiii - 390 pp.) and to open the discussion with experts in their respected field. The discussion of the contributors to the volume and the new communications should therefore be conducted in the context of the emergence of a new interpretation of the historical role played by the Arabic tradition in the development of science. Based on new historical evidence, this newly emerging interpretation argues that Arabic scientific practice was originally developed as a countermodel by attempting to put to the test the Greek scientific discourse and its emergence as a countermodel was closely linked to the normative status traditionally accorded to controversies in Arabic culture.

# THE UNITY OF SCIENCE IN THE ARABIC TRADITION

Science, Logic, Epistemology and their Interactions  
 LISBON, OCTOBER 29-30, 2009 FCUL  
 Amphitheatre of FCUL's Foundation  
 Building C1, Level 3



Centro de Filosofia das Ciências da Universidade de Lisboa (CFCUL, Portugal)

**FCT Fundação para a Ciência e a Tecnologia**  
 MINISTÉRIO DA CIÊNCIA, TECNOLOGIA E ENSINO SUPERIOR



in collaboration with:  
 Université de Lille 3 (STL-UMR 8163), France  
 Centre National de Recherche Scientifique (CNRS), France  
 Institut Franco-Portugais de Lisbonne, Portugal

# PROGRAMA

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## 29 Octobre 2009

**14.30h - 15h** - Welcoming Session (Hassan Tahiri, Olga Pombo, Shahid Rahman, Roshdi Rashed, Director of the IFP)

Moderator: M. Roshdi Rashed

**15h - 15h45** - Avicenna on the Quantification of the Predicate  
Ahmad Hasnaoui (Fellow Researcher at the CNRS, Paris-France)

**15h45 - 16h** Discussion

**16h - 16h45** - La méthode logique des philosophes arabes: catégories, topiques, rhétorique  
Ali Benmakhlouf (Professor of Philosophy at the University of Nice, France)

**16h45 - 17h** Discussion

Coffee break

**17.30h - 18.15h** - Kuhn, Lakatos and Duhem on the Copernican Revolution  
Hassan Tahiri (Fellow Researcher at the CFCUL, Lisboa-Portugal)

**18.15h-18h30** Discussion

Dinner



## 30 Octobre 2009

Moderator: M. Michel Paty

**9.30h - 10.15h** - L'unité de la science chez Ibn Hazm - Ahmed Alami  
(President of the Department of Philosophy at the University of Kenitra, Morocco)

**10.15h - 10h30** Discussion

**10.30h - 11.15h** - Découvrir et démontrer : l'exemple d'al-Sijzi - Pascal Crozet  
(Directeur du Laboratoire de Philosophie et d'Histoire des Sciences (UMR 7219), CNRS, Paris-France)

**11.15h - 11h30** Discussion

Coffee break

**12h - 12h45** - Modernité mathématique et tradition arabe - Roshdi Rashed  
(Director Emeritus of Research at the CNRS, Paris-France)

**12h45 - 13h** Discussion

Lunch Break

Moderator: M. Ali Benmakhlouf

**14.30h - 15.15h** - Models of Causality in Islamic Philosophy - Catarina Belo  
(Professor of Islamic Philosophy at the American University in Cairo, Egypt)

**15.15h - 15h30** Discussion

**15.30h - 16.15h** - Remarques comparatives sur la démonstration et l'invention dans l'accroissement des connaissances - Michel Paty (Directeur de recherche émérite au CNRS, EQUIPE REHSEIS-Laboratoire de Philosophie et d'Histoire des Sciences-UMR 7219, Paris-France)

**16.15h - 16h30** Discussion

Coffee break

**17h - 18.30h** - Round Table (all speakers plus Shahid Rahman (Lille III), Olga Pombo (CFCUL))

Closing Dinner at the Fábrica Braço de Prata