



Centro de Filosofia das Ciências
da Universidade de Lisboa

Abduction and the Process of Scientific Discovery

Program

<http://cfeul.fc.ul.pt/coloquioscentro/coll.abduction.htm>

Lisbon, 4 - 6 May 2006

Museu de Ciência da Universidade de Lisboa

Rua da Escola Politécnica, 56

Lisboa, Portugal

(Subway Station *yellow line*: Rato)

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

FUNDAÇÃO
LUSO-AMERICANA

Thursday 04.05.2006

8:30 *Reception*

9:00 – 9:45 **Olga Pombo** *Introduction to the International Meeting*
 Chairperson: Olga Pombo

Topic 1: Peirce and the Concept of Abduction

9:45 – 10:30 **Shahid Rahman** *Abduction, Belief-Revision and Non-Normality*
 (Université Lille 3, France)

10:30 – 11:00 **Nuno Nabais** *Abduction and Categories*
 (Universidade de Lisboa,
 Portugal)

11:00 – 11:30 *Coffee break*

11:30 – 12:00 **Alexander Gerner** *Epistemic Attention and Abduction*
 (Universidade de Lisboa,
 Portugal)

12:00 – 12:30 **Pasi Pohjola** *What is Abductive Method?*
 (University of Jyväskylä,
 Finland)

12:30 – 14:30 *Lunch*

Topic 2: Case studies on Abduction (historical and epistemological)

14:30 – 15:00 **Andrés Rivadulla** *Abductive Reasoning, Theoretical Models And The Physical*
 (Universidad Complutense, *Way Of Dealing Fallibly With Nature*
 Madrid, Spain)

15:00 – 15:30 **João Luís Cordovil** *Are the Two Major Conceptual Moments of the (Orthodox)*
 (Universidade de Lisboa, *Quantum Mechanics Moments of Abduction?*
 Portugal)

15:30 – 16:00 **Albrecht Heffer** *Abduction as a Strategy for Concept Formation in*
 (Ghent University, Belgium) *Mathematics: Cardano Postulating a Negative*

16:00 – 16:30 *Coffee break*

16:30 – 17:00 **Albert Schirrmeister** *Johannes Kepler's Dreams and Abductive Knowledge*
 (Humboldt Universität
 Berlin, Germany)

17:00 – 17:30 **Ana Paula Silva** *How can the Example of Kepler's Great Scientific Discovery*
 (Universidade de Lisboa, *Illuminate the Problematical Nature of Abduction?*
 Portugal)

17:30 – 18:00 *General Discussion*

Friday 05.05.2006

9:00 – 9:15 **Chairperson:** Nuno Nabais

Topic 3: Processes of Scientific Discovery

- 9:15 – 10:00 **Luís Moniz Pereira** *Preferential Theory Revision – A Logic Program Approach*
(Universidade Nova de Lisboa, Portugal)
- 10:00 – 10:30 **Laurent Keiff** *Abductive Strategies in Meaning Construction*
(Université Lille 3, France)
- 10:30 – 11:00 **Joke Meheus** *Adaptive Logics for Abduction and the Explication of Explanation-Seeking Processes*
(Ghent University, Belgium)
- 11:00 – 11:30 *Coffee break*
- 11:30 – 12:00 **Diderik Batens** *Formal Problem Solving Processes*
(Ghent University, Belgium)
- 12:00 – 12:30 **Sami Paavola** *Abduction with Distributed Means*
(University of Helsinki, Finland)
- 12:30– 14:30 *Lunch*

Topic 4: Abductive Strategies, Applications & Perspectives

- 14:30 – 15:15 **Michael Hoffmann** *Seeing Problems, Seeing Solutions. Abduction and Diagrammatic Reasoning in a Theory of Learning and Creativity*
(Georgia Institute of Technology, U.S.A.)
- 15:15 – 15:45 **Ahti-Veikko Pietarinen** *Logic, Neuroscience and Phenomenology: In Cahoots?*
(University of Helsinki, Finland)
- 15:45 – 16:15 **José Augusto Mourão** *Abduction and Metaphor*
(Universidade Nova de Lisboa, Portugal)
- 16:15 – 16:45 *Coffee break*
- 16:45 – 17:15 **Elia Belli** *Agent-Based Abduction, Being Rational through Fallacies*
(University of Pavia, Italy)
- 17:15 – 17:45 **Augusto Ponzio** *Alterity and Dialogism in Abductive Processes of Scientific Discovery*
(Bari University, Italy)
- 17:45 – 18:00 **General Discussion**

Saturday 06.05.2006

9:00 – 9:15 **Chairperson:** Alexander Gerner

Topic 4: Abductive Strategies, Applications & Perspectives

- 9:15 – 9:45 **Susan Petrilli** *Abduction, Medical Semeiotics and Semioethics: Individual and Social Syptomatology from a Semiotic Perspective*
(Bari University, Italy)
- 9:45 – 10:15 **João Sampaio** *Clinical Reason in Medicine: The role of Abductive Inference*
(Universidade de Lisboa, Portugal)
- 10:15 – 10:45 **Willem F. G. Haselager** *Abduction's dark ways*
(University Nijmegen, The Netherlands)
- 10:45 – 11:15 *Coffee break*
- 11:15 – 11:45 **Carlos Couto S.C** *'Aqueduct _Abduct _Seduct'. Heuristic Aesthetics of Creation / Transcendental Reduction and Abduction of the Work.*
(Universidade de Lisboa, Portugal)
- 11:45 – 12:30 **Dina Mendonça and Isabel Serra** *Abduction and Emotional Processes - a taxonomy of emotional processes in scientific discovery*
(Universidade Nova de Lisboa e Universidade de Lisboa, Portugal)
- 12:30 – 13:15 **Lorenzo Magnani** *Multimodal Abduction. Neuronal Process, External Semiotic Anchors, ,Hybrid Representations*
(University of Pavia, Italy)
- 13.15-13.30 **Olga Pombo and Alexander Gerner** *Closing Panel*

19:00 **Invitation for Dinner**

Center of Philosophy of Sciences of the University of Lisbon (CFCUL)

Faculdade de Ciências, Universidade de Lisboa
Campo Grande, Edifício C1, 3 Piso, Sala 1.3.35
1749-016 Lisboa, Portugal
Telephone: (+351) 217500000, ext.21335
Fax: (+351) 217500346
Website: <http://cfcul.fc.ul.pt>
email: cfcul@fc.ul.pt