

**INTERNATIONAL COLLOQUIUM  
WHAT IS A PHYSICAL ENTITY?**

Lisbon

Faculdade de Letras da Universidade de Lisboa

Anfiteatro III

October 16<sup>th</sup>, 17<sup>th</sup>, and 18<sup>th</sup>

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

Center of Philosophy of the University of Lisbon  
(CFUL)

**October 16<sup>th</sup>**

***Colloquium: What is a Physical Entity?***

Chairman: Rui Moreira

**12:15**

José R. Croca

ON THE CONCEPT OF PHYSICAL PARTICLE

**13:15** Lunch break

Chairman: José Croca

**14:30**

Rui Moreira

WHAT IS A NATURAL ENTITY?

**15:15**

Paulo Castro

GENERALIZED UNCERTAINTY RELATIONS IN QUANTUM MECHANICS AND THE PRINCIPLES OF COMPLETENESS

**16:00**

Erez Firt

CAN THE FLAT PHYSICIST TELL US WHAT IS A PHYSICAL ENTITY? (VIDEO-CONFERENCE)

**16:45** Coffee Break

Chairman: Mário Gatta

**17:15**

Renato Martins

FINALISM AND EQUILIBRIUM: AN APPROACH OF ARISTOTLE'S AUTOMATON TO BIOLOGIC THERMODYNAMICS

**18:00**

Adelino Cardoso

A PROCURA LEIBNIZIANA DE UMA FÍSICA ESPECIAL

**18:45**

Andrea Mazzola

SOME REMARKS ON WHITEHEAD'S CONCEPT OF A "PHYSICAL ENTITY"

**October 17<sup>th</sup>**

Chairman: José Croca

**9:30**

Chris Dewdney

WHAT IS A QUANTUM PHYSICAL ENTITY?

**10:30**

Thomas de Saegher

WHAT SHOULD IT MEAN TO PHYSICALLY CONSTRUCT THE QUANTUM STATE?

**11:15**

Amaro Rica da Silva

TIMES AND RELATIVITIES

**12:00**

Vasil Penchev

ANY PHYSICAL ENTITY IS QUANTUM INFORMATION AND THUS: MATHEMATICAL

**12:45**

Meir Hemmo

CAN THE GRW QUANTUM THEORY BE INTERPRETED REALISTICALLY?

**13:30** Lunch Break

Chairman: Pedro Alves

**14:30**

Carlos Morujão

ON KANT'S NOTION OF IMPENETRABILITY AND INDIVISIBILITY OF MATTER

**15:15**

Aurélien Dijan

HUSSERL'S CONCEPT OF "HORIZON" AND THE THING AS A TRANSCENDENTAL PROBLEM

**16:00**

Vishnu Spaak

HEIDEGGER AND HEISENBERG ON NATURE AND TECHNOLOGY IN CONTEMPORARY PHYSICS

**16:45** Coffee Break

Chairman: Carlos Morujão

**17:15**

Mafalda Blanc

HEIDEGGER E A CIÊNCIA

**18:00**

Fernando Belo

QUESTÃO (PRIGOGINIANA): QUE SÃO A ENERGIA, A FORÇA E A ENTROPIA?

## **October 18<sup>th</sup>**

Chairman: Rui Moreira

### **9:00**

Luciano Boi

IS SPACE-TIME A DYNAMICAL PHYSICAL ENTITY EMERGING FROM GEOMETRY AND TOPOLOGY?

### **10:00**

Carlos Lobo

POSITION DU PROBLEME DE L'INDIVIDUATION EN MECANIQUE QUANTIQUE ET LA SIGNIFICATION PHILOSOPHIQUE DU PRINCIPE DE PAULI SELON WEYL ET DE BROGLIE

### **10:45**

Gil Costa Santos

PROPERTIES IN A RELATIONAL ONTOLOGY

### **11:30**

Prasenjit Biswas

POSSIBILITY OF FORKED PATHWAYS OF ONTOLOGY: SUPERPOSITION AND COLLAPSE AND VICE-VERSA IN APORIA OF EMERGING NOTHINGNESS

### **12:45**

Arthur Dony

INDIVIDUALITY THROUGH RELATEDNESS: A LEIBNIZIAN FRAMEWORK FOR QUANTUM MECHANICS

### **13:00** Lunch Break

Chairman : Pedro Alves

### **14:30**

Edouard Mehl

HOW DO WE KNOW REALITY IS WHAT WE THINK IT IS ?

### **15:15**

João Pinheiro, and João Cordovil

METAMETAPHYSICS OF PHYSICS

### **16:00**

Joseph Bernal, and Kevin Vallejo

REFERENCE FRAME DEPENDENCE IN ONTOLOGICAL INTERPRETATIONS OF QUANTUM MECHANICS (VIDEO-CONFERENCE)

### **16:45** Coffee Break

Chairman: Mário Gatta

### **17:15**

Jairo José da Silva

THE APPLICABILITY OF MATHEMATICS IN EMPIRICAL SCIENCES

### **18:15**

ENDING SESSION