

COLLOQUIUM

WHAT
IS A
PHYSICAL
ENTITY?

AND

JOÃO PAISANA
LECTURES

PROGRAMME

LISBON, PORTUGAL
FACULDADE DE LETRAS DA UNIVERSIDADE DE LISBOA
ANFITEATRO III
16-17-18 OCTOBER 2017

CENTRO DE FILOSOFIA DAS CIÊNCIAS DA UNIVERSIDADE DE LISBOA (CFCUL)

CENTRO DE FILOSOFIA DA UNIVERSIDADE DE LISBOA (CFUL)
LINHA DE PENSAMENTO FENOMENOLÓGICO

SCIENTIFIC BOARD
J. R. CROCA
PEDRO ALVES
RUI MOREIRA

INTERNATIONAL COLLOQUIUM WHAT IS A PHYSICAL ENTITY?

AND

JOÃO PAISANA LECTURES

PROGRAMME

LISBON

FACULDADE DE LETRAS DA UNIVERSIDADE DE LISBOA
ANFITEATRO III

OCTOBER 16TH, 17TH, AND 18TH

CENTER OF PHILOSOPHY OF SCIENCES OF THE UNIVERSITY OF LISBON
(CFCUL)

CENTER OF PHILOSOPHY OF THE UNIVERSITY OF LISBON
(CFUL)

Adelino Cardoso (CHAM – FCSH / NOVA – UAC)

Amaro Rica da Silva (Dep. Física – IST / CENTRA)

Andrea Mazzola (CFCUL)

Arthur Dony (Université de Liège)

Aurélien Dijan (University of Lille)

Carlos Lobo (Collège International de Philosophie / CFCUL)

Carlos Morujão (Portuguese Catholic University - Lisbon) / (CEFI)

Chris Dewdney (University of Portsmouth)

Claude Vishnu Spaak (University of Lisbon)

Claudio Majolino (Université de Lille III)

Edouard Mehl (University of Lille)

Erez Firt (Tel Aviv University)

Fernando Belo (CFUL)

Gil C. Santos (CFCUL)

Jairo da Silva (Unesp, SP Brazil / CNPq, Brazil)

João Pinheiro (CFCUL) and João Cordovil (CFCUL)

José R. Croca (CFCUL)

Joseph Bernal (El Paso Community College / Philosophic Systems Institute - PSI)
and Kevin Vallejo (Boise State University, Material Science and Engineering Department)

Luciano Boi (CAMS/ EHESS)

Mafalda Blanc (CFUL)

Mário Gatta (CFCUL / Escola Naval)

Meir Hemmo (University of Haifa)

Orly Shenker (Hebrew University of Jerusalem)

Paulo Castro (CFCUL)

Pedro Alves (Fac. Letras ULisboa / CFUL)

Prasenjit Biswas (Dept. of Philosophy, North Eastern Hill University, Shillong, India)

Renato Martins (CFUL)

Rui Moreira (Fac. Ciências ULisboa / CFCUL)

Thomas De Saegher (University of Western Ontario / The Rotman Institute of Philosophy)

Vasil Penchev (Bulgarian Academy of Sciences: Institute for the Study of Societies and Knowledge: Dept. of Logical Systems and Models)

9:30
WELCOME RECEPTION

CHAIRMAN: PEDRO ALVES

10:00 – 11:00
CLAUDIO MAJOLINO
MULTIPLICITY, MANIFOLDS AND VARIETIES OF CONSTITUTION:
A MANIFESTO

11:00 – 12:00
JAIRO JOSÉ DA SILVA
THE TRANSCENDENTAL PRESUPPOSITIONS OF SCIENCE

12:00
COFFEE BREAK

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 16TH

WHAT IS A PHYSICAL ENTITY?

CHAIRMAN: JOSÉ CROCA

9:30

CHRIS DEWDNEY

WHAT IS A QUANTUM PHYSICAL ENTITY?

10:30

THOMAS DE SAEGHER

WHAT SHOULD IT MEAN TO PHYSICALLY CONSTRUE 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?

OCTOBER 17TH

WHAT IS A PHYSICAL ENTITY?

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 17TH

WHAT IS A PHYSICAL ENTITY?

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**

OCTOBER 18TH

WHAT IS A PHYSICAL ENTITY?

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? DESCARTES ON THE RES EXTENSA AND THE SUBJECT-MATTER OF PHYSICS

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

OCTOBER 18TH