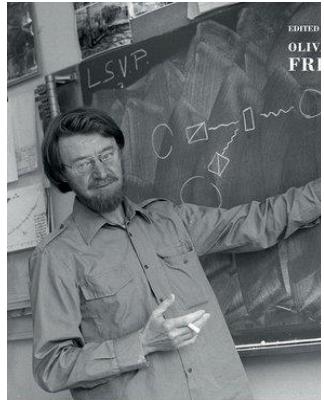
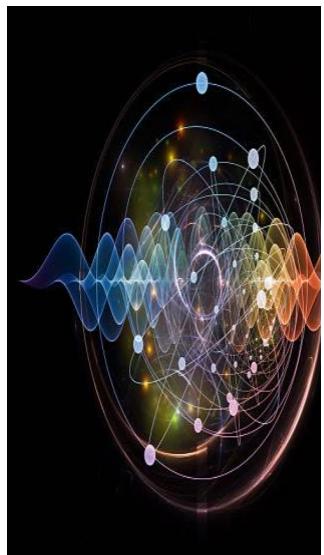
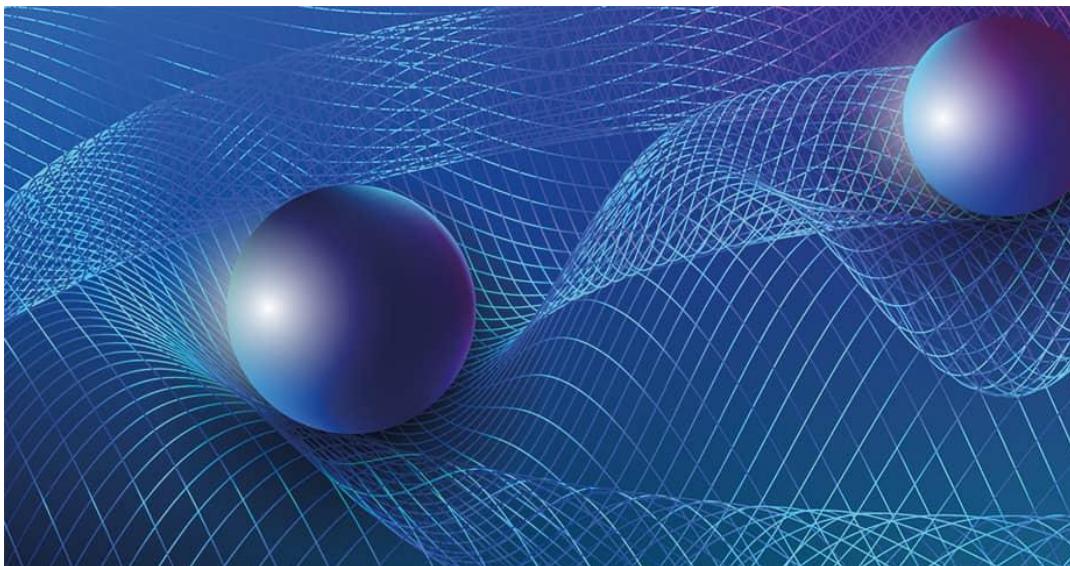


The Oxford Handbook
Département de physique
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EDITED BY
OLIVAL FREIRE
The Oxford Handbook
THE HISTORY OF QUANTUM INTERPRETATION



Present

Two days of history and epistemology of the foundations of Quantum Mechanics

April 14 et 15, 2023

Amphithéâtre Pierre-Gilles de Gennes, Université Paris Cité

On the occasion of the publication of

The Oxford Handbook of the History of Quantum Interpretations

Organizing Committee :

Jean-Jacques Szczeciniarz, Olival Freire, Joseph Kouneiher et Michel Paty



PROGRAMME

1er jour - 14 avril

8h30-09:00 Welcom

09:00 - 11:00

Franck Laloë - Laboratoire Kastler Brossel, ENS Paris
A model of quantum collapse induced by Bohmian positions and gravity

Roger Penrose - University of Oxford
Classical and Quantum Reality, and the Collapse of the Wave-Function

Alain Aspect* (TBC) - l'Institut d'Optique (Université Paris-Saclay - CNRS) et professeur à l'École polytechnique
TBA

John Heilbron - Worcester College, Oxford

The history of the quantum debates

11:00 - 11:10 - Pause café

11:10 - 13:10

Helge Kragh - University of Copenhagen
Dead as a Doornail? Zero-Point Energy and Low-Temperature Physics in Early Quantum Theory

Christoph Lehner - Independent scholar

The Early Debates about the Interpretation of Quantum Mechanics

Christian Joas - University of Copenhagen

Foundations and Applications: The Creative Tension in the Early Development of Quantum Mechanics

Wayne Myrvold - The University of Western Ontario

Philosophical Issues Raised by Quantum Theory and its Interpretations

13:10 - 14:30 - Déjeuner

14:30 - 16:30

Daniela Monaldi - York University

The Evolving Understanding of Quantum Statistics

Osvaldo Pessoa Jr. - Universidade de São Paulo

The Measurement Problem

Michel Paty – Emeritus Research Director, CNRS

Einstein's Criticism of Quantum Mechanics

Guido Bacciagaluppi – Utrecht University

The Statistical Interpretation: Born, Heisenberg, and von Neumann, 1926-1927

16:30 - 16:40 - Pause café

16:40 - 18: 40

David Kaiser – Massachusetts Institute of Technology

Tackling Loopholes in Experimental Tests of Bell's Inequality

Bernadette Lessel – Max Planck Institute for the History of Science (MPIWG)

The Interpretation Debate and Quantum Gravity

Alexei Grinbaum – CEA-Saclay/Larsim, France

Quantum Information and the Quest for Reconstruction of Quantum Theory

Thomas Ryckman – Stanford University

Quantum Interpretations and 20th Century Philosophy of Science

Massimiliano Badino – University of Verona

Of Weighting and Counting: Statistics and Ontology in the Old Quantum Theory

2ème jour – 15 avril

09:00 - 11:00

Anja Jacobsen – KVUC, Denmark

Copenhagen and Niels Bohr

Flavio Del Santo – University of Vienna

The Foundations of Quantum Mechanics in Post-War Italy's Cultural Context

Jean-Philippe Martinez – Aachen University

Foundations of Quantum Physics in the Soviet Union

Sebastian Murgueitio Ramírez – University of Oxford

On How Epistemological Letters Changed the Foundations of Quantum Mechanics

11:00 - 11:10 - Pause café

11:10 - 13:10

Stefano Osnaghi – Archives Husserl, ENS, Paris

Bohr and the Epistemological Lesson of Quantum Mechanics

Olival Freire Jr - Universidade Federal da Bahia

Making Sense of the Century-Old Scientific Controversy over the Quanta

Kristian Camilleri - University of Melbourne

Orthodoxy and Heterodoxy in the Post-war Era

Giora Hon, University of Haifa, and Bernard Goldstein, University of Pittsburgh

Interpretation in Electrodynamics, Atomic Theory, and Quantum Mechanics

13:10 - 14:30 - Déjeuner

14:30 - 16:30

Jeffrey Barrett - UC Irvine

Pure Wave Mechanics, Relative States, and Many Worlds

Hervé Zwirn - ENS Paris-Saclay, France

Is QBism a Possible Solution to the Conceptual Problems of Quantum Mechanics

Jean-Jacques Szczeciniarz, Université Paris Cité, and **Joseph Kouneiher**, Côte d'Azur University

The Philosophy of Wholeness and the General and New Concept of Order: Bohm's and Penrose's Points of View

Valia Allori - Northern Illinois University

Spontaneous Localization Theories: Quantum Philosophy between History and Physics

16:30 - 16:40 - Pause café

16:40 - 18: 40

Otávio Bueno - University of Miami

The Non-Individuals Interpretation of Quantum Mechanics

Dennis Dieks - Utrecht University

Modal Interpretations of Quantum Mechanics

Jean Bricmont - Catholic University of Louvain

Einstein, Bohm, and Bell: A Comedy of Errors

Alexander Pechenkin - Lomonosov Moscow State University

The Statistical (Ensemble) Interpretation of Quantum Mechanics

Registration: <https://www.archimedes-eca.org/colloque-quantum-interpretation>

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