

Philosophy of Mechanics: Mathematical Foundations

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Schedule

Wednesday 12 February

09h30–09h40

**Welcoming and Opening
session:** Gabriel Catren

09h40 – 10h40

Jeremy Butterfield

On the Role of Mathematics in
the Foundations of Physics

10h40 – 10h55 Questions

Coffee – Break

11h10 – 12h10

Klaas Landsman

Methods from
noncommutative geometry in
(constrained) quantization
theory

12h10 – 12h25 Questions

Lunch – Break

14h00 – 15h00

Shahn Majid

Quantum differentials and
Poisson geometry

15h00 – 15h15 Questions

15h15 – 16h15

Thierry Masson

Gauge field theories: a
comparison of various
mathematical approaches.

16h15 – 16h30 Questions

Coffee – Break

17h00–18h00

John Alexander Cruz

Morales

Interplay between model

theory, noncommutative
geometry and physics after
Boris Zilber

18h – 18h15 Questions

Thursday 13 February

09h00 – 10h00

Andreas Doering

The real difference between
classical and quantum
mechanics

10h – 10h15 Questions

10h15 – 11h00

Chris Heunen

The many classical faces of
quantum structures

11h00 – 11h15 Questions

Coffee – Break

11h30 – 12h30

Charles-Michel Marle

The manifold of motions and
total mass of an isolated
mechanical system.

12h30 – 12h45 Questions

Lunch – Break

14h00 – 15h00

Joseph Kouneiher

Group Cohomology in Physics

15h00 – 15h15 Questions

15h15 – 16h15

Frédéric Hélein

The Covariant Phase Space
and its Avatars

16h15 – 16h30 Questions

Coffee – Break

17h00 – 18h00

Gordon Belot

Symmetry, Infinity, and
Redundancy

18h – 18h15 Questions

Friday 14 February

09h30 – 10h30

Urs Schreiber

Quantization from Linear
homotopy type theory

10h30 – 10h 45 Questions

Coffee – Break

11h – 12h

Gabriel Catren

A Portrait of Non–Constrained
Mechanics as a Generalized
Gauge Theory

12h – 12h15 Questions

Lunch – Break

14h00 – 15h00

Daniel Bennequin

Non–abelian (and non–linear)
quantization.

15h – 15h15 Questions

15h15 – 16h15

Mathieu Anel

Introduction to Derived
Geometry

16h15 – 16h30 Questions

Coffee – Break

17h00 – 18h00

Julien Page

Towards a Galoisian
Interpretation of Heisenberg
Indeterminacy Principle

18h – 18h15 Questions

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