

PHILMATH INTERSEM 2010*

Foundations of Mathematics: What and Why?

May 18–June 25, 2010

Featured Speakers

Steve Awodey (Carnegie Mellon)	Giuseppe Longo (ENS)
Tim Bays (Notre Dame)	Jean-Pierre Marquis (Montreal)
John Bell (Western Ontario)	John Mayberry (Bristol)
Mic Detlefsen (Notre Dame)	Colin McLarty (Case Western)
Solomon Feferman (Stanford)	Richard Pettigrew (Bristol)
Curtis Franks (Notre Dame)	Michael Potter (Cambridge)
Geoffrey Hellman (Minnesota)	Jean-Jacques Szczeciniarz (Paris 7)
Luca Incurvati (Cambridge)	Gabriel Uzquiano (Oxford)
Øystein Linnebo (Birkbeck)	

When: 14h–18h each Tuesday and Friday, from Tuesday, May 18th through Tuesday, June 22nd. Full day meeting 9h00–18h00, Friday, June 25th

Where: The seminar will meet in the salle Klimt (# 366A), Bâtiment Concorcet, Grands Moulins campus, U of Paris 7-Diderot for all but one meeting (June 18th), when the seminar will meet in the salle Klee (# 454A) of the same building. Video links to Notre Dame and Nancy 2 are planned for all meetings of the seminar.

Schedule

May 18	M Detlefsen	June 8	S Feferman
May 21	Ø Linnebo, R Pettigrew	June 11	G Longo, L Incurvati
May 25	S Awodey, G Uzquiano	June 15	J-P Marquis
May 28	J Mayberry	June 18	T Bays
June 1	J Bell	June 22	M Potter
June 4	C Franks	June 25	M Detlefsen, G Hellman C McLarty, J-J Szczeciniarz

Participation

All interested persons are encouraged to attend and participate. If you have questions, please contact Mic Detlefsen at mdetlef1@nd.edu or Andrei Rodin at rodin@ens.fr.

Confirmed Student Participants

Alexei Angelides (Stanford)	Davide Crippa (Paris 7 & Paris 1)
Sylvain Cabanacq (ENS, Paris 7)	Jules-Henri Greber (Nancy 2)
Sara Confalonieri (Paris 7 & Paris 1)	Emmylou Haffner (Paris 7)

Cont'd.

* A cooperation of the University of Notre Dame, the Université de Paris 7–Diderot, the École normale supérieure, the *Ideals of Proof* (IP) project (ANR), the Université de Nancy 2 and the IHPST.

Daniel Immerman (Notre Dame)	Irina Starikova (Bristol)
Ramzi Kebaili (Paris 7 & Paris 1)	Anthony Strimble (Notre Dame)
Graham Leach-Krouse (Notre Dame)	David Thomasette (Nancy 2)
Amirouche Moktefi (Nancy 2)	Iulian Toader (Notre Dame)
Julien Ross (Paris 7)	Sean Walsh (Notre Dame)

Description

The general aim of the seminar is to develop a better understanding of the following questions and plausible responses to them:

- I. What might we reasonably want and ask of a foundation of mathematics?
- II. What are the most important similarities and differences between the two major foundational alternatives today, set theoretical and category theoretical foundations?
- III. What are the most significant comparative advantages and disadvantages of each of these two main approaches?
- IV. What other reasonable and interesting conceptions of foundations are there, and what is known concerning them?

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Associated Seminar

Category Theory and the Philosophy of Mathematics Today

The aim of this seminar is (i) to cover more specific technical topics concerning Category Theory than there will be time to cover in **Foundations of mathematics: What and Why?** and (ii) to provide an opportunity for more extended philosophical discussion focusing on Category Theory. All meetings will be from 9h–16h at the ENS (45 rue d’Ulm), salle “W” (staircase B, 3rd floor).

Featured Speakers

Jean Bénabou (Paris 13)	Alberto Peruzzi (Florence)
René Guitart (Paris 7)	Jean Petitot (CREA)
Christian Houzel (CNRS)	Alain Prouté (Paris 7)
M. Lachizè-Rey (CNRS, Paris 7)	Andrei Rodin (Paris 7, RAS)
Giuseppe Longo (CNRS, ENS)	Pino Rosolini (Genoa)
Yuri Manin (Max Planck, Northwestern U, RAS)	Jean Sallantin (Montpellier)

Schedule

May 17: R Guitart (Paris 7), C Houzel (CNRS), Y Manin (Max Planck Inst., Northwestern U & RAS)

May 31: A Peruzzi (Florence), A Prouté (Paris 7), A Rodin (Paris 7 & RAS), J Sallantin (Montpellier)

June 14: J Bénabou (Paris 13), M Lachizè-Rey (CNRS & Paris 7), G Longo (CNRS & ENS), J Petitot (CREA), P Rosolini (Genoa)