

« **Semantics of proofs and certified mathematics** »

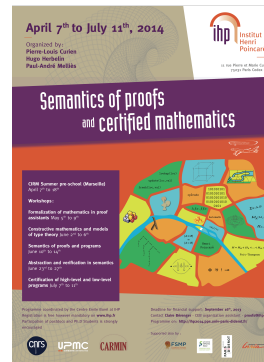
April 7th – July 11th, 2014

Workshop

« **Abstraction and Verification in Semantics** »

Paris, June 23th – 27th, 2014

Amphithéâtre Hermite



ORGANIZERS

Igor Walukiewicz (LaBRI, Université Bordeaux-1)

Luke Ong (Oxford University, UK)

SPEAKERS

Mikolaj Bojanczyk (Warsaw University)

Pierre Clairambault (ENS Lyon)

Arnaud Carayol (CNRS & Univ. Paris-Est Marne-la-Vallée)

Giuseppe Castagna (CNRS & Univ. Paris Diderot)

Martin Hofmann (LMU, Germany)

Ranjit Jhala (UC San Diego, USA)

Terui Kazushige (Kyoto, Japan)

Rupak Majumdar (MPI, Germany)

Paul-André Melliès (CNRS & Univ. Paris Diderot)

Jens Palsberg (UCLA, USA)

Jakob Rehof (Technical Univ. Dortmund, Germany)

Andrey Rybalchenko (MSR Cambridge, UK)

Sylvain Salvati (Bordeaux)

Helmut Seidl (TUM, Germany)

Olivier Serre (CNRS & Univ. Paris Diderot)

Colin Stirling (Edinburgh, UK)

PROGRAM

Monday June 23th

09.30 am – 10.30 am	Registration – IHP ground floor	
10.30 am – 11.00 am	<i>Coffee break – IHP ground floor</i>	
11.00 am – 12.00 am	Martin Hofmann	Abstract Interpretation from Buchi Automata.
12.00 pm – 02.30 pm	<i>Lunch time</i>	
02.30 pm – 03.30 pm	Olivier Serre	What are collapsible pushdown automata good for?
03.30 pm – 04.00 pm	<i>Coffee break</i>	<i>IHP ground floor</i>
04.00 pm – 05.00 pm	Sylvain Salvati	Models for model checking higher-order programs.

Tuesday June 24th

09.30 am – 10.30 am	Jens Palsberg	Efficient Inference of Packed Locality Types.
10.30 am – 11.00 am	<i>Coffee break – IHP ground floor</i>	
11.00 am – 12.00 pm	Giuseppe Castagna	Polymorphic Functions with Set-Theoretic Types.
12.30 pm – 02.30 pm	<i>Lunch time</i>	
02.30 pm – 03.30 pm	Ranjit Jhala	Liquid Types For Haskell.
03.30 pm – 04.00 pm	<i>Coffee break – IHP ground floor</i>	
04.00 pm – 05.00 pm	Jakob Rehof	Types as Programs: Foundations of Combinatory Logic Synthesis.
06.00 pm	<i>Cocktail – IHP Ground floor</i>	

Wednesday June 25th

09.30 am – 10.30 am	Andrey Rybalchenko	Solving (quantified) Horn constraints for program verification and synthesis.
10.30 am – 11.00 am	<i>Coffee break – IHP ground floor</i>	
11.00 am – 12.00 pm	Helmut Seidl	Efficiently intertwining widening and narrowing.

Thursday June 26th

09.30 am – 10.30 am	Colin Stirling	Deciding equivalence using type checking.
10.30 am – 11.00 am	<i>Coffee break – IHP ground floor</i>	
11.00 am – 12.00 pm	Terui Kazushige	On applications of models of linear logic.
12.00 pm – 02.30 pm	<i>Lunch time</i>	
02.30 pm – 03.30 pm	Paul-André Melliès	Linear logic and higher-order model-checking.
03.30 pm – 04.00 pm	<i>Coffee break – IHP ground floor</i>	
04.00 pm – 05.00 pm	Pierre Clairambault	Strategies as Higher-Order Recursion Schemes.

Friday June 27th

09.30 am – 10.30 am	Rupak Majumdar	Abstractions in the Continuous World.
10.30 am – 11.00 am	<i>Coffee break – IHP ground floor</i>	
11.00 am – 12.00 pm	Mikolaj Bojanczyk	Computing with atoms.