

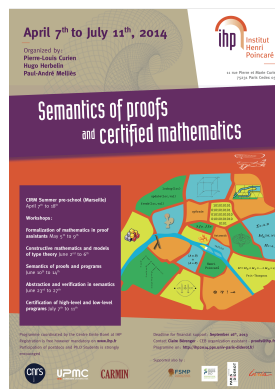
« **Semantics of proofs and certified mathematics** »

April 7<sup>th</sup> – July 11<sup>th</sup>, 2014

« **Constructive mathematics and models of type theory** »

Paris, June 2<sup>nd</sup> – 6<sup>th</sup>, 2014

Amphithéâtre Hermite



**ORGANIZERS**

**Thierry Coquand** (TH Chalmers Gothenburg, Germany)

**Thomas Streicher** (Technische Universität Darmstadt, Germany)

**SPEAKERS**

**S. Awodey** (CMU)

**A. Bauer** (University of Ljubljana)

**R. Brown** (Bangor University)

**D.-C. Cisinski** (University of Toulouse)

**P. Dybjer** (TH Chalmers Gothenburg)

**M. Hofmann** (LMU Munich)

**S. Huber** (TH Chalmers Gothenburg)

**A. Joyal** (University of Montreal)

**J. Kock** (University Autònoma of Barcelona)

**P. Martin-Löf** (University of Stockholm)

**G. Munch-Maccagnoni** (University of Paris 13)

**E. Palmgren** (University of Stockholm)

**V. Voevodsky** (Princeton)

## PROGRAM

### Monday June 2<sup>nd</sup>

<b>10.00 am – 10.30 am</b>	<b>Registration</b>	
10.30 am – 12.00 pm	<b>P. Martin-Löf</b>	Sample space-time.
12.00 pm – 02.00 pm	<i>Lunch time</i>	
02.00 pm – 03.30 pm	<b>P. Dybjer</b>	What is a model of type theory.
03.30 pm – 04.00 pm	<i>Coffee break</i>	<i>IHP Ground floor</i>
04.00 pm – 05.30 pm	<b>S. Awodey</b>	Natural models of type theory.

### Tuesday June 3<sup>rd</sup>

10.30 am – 12.00 pm	<b>A. Joyal</b>	Categorical homotopical logic.
12.00 pm – 02.00 pm	<i>Lunch time</i>	
02.00 pm – 03.30 pm	<b>E. Palmgren</b>	Models of dependent types and dependently typed logic and their formalization in type theory.
03.30 pm – 04.00 pm	<i>Coffee break</i>	<i>IHP Ground floor</i>

### Wednesday June 4<sup>th</sup>

10.30 am – 12.00 pm	<b>G. Munch-Maccagnoni</b>	Polarities and classical constructiveness.
12.00 pm – 02.00 pm	<i>Lunch time</i>	
02.00 pm – 03.30 pm	<b>J. Kock</b>	Univalence in locally cartesian closed infinity-category.
03.30 pm – 04.00 pm	<i>Coffee break</i>	<i>IHP Ground floor</i>
04.00 pm – 05.30 pm	<b>M. Hofmann</b>	Revisiting the categorical interpretation of type theory.

### Thursday June 5<sup>th</sup>

10.30 am – 12.00 pm	<b>D.-C. Cisinski</b>	Univalence for elegant models of homotopy types.
12.00 pm – 02.00 pm	<i>Lunch time</i>	
02.00 pm – 03.30 pm	<b>R. Brown</b>	Intuitions for cubical models of homotopy types.
03.30 pm – 04.00 pm	<i>Coffee break</i>	<i>IHP Ground floor</i>
04.00 pm – 05.30 pm	<b>S. Huber</b>	A Model of Type Theory in Cubical Sets.
<b>06.30 pm – 09.00 pm</b>	<b>Cocktail</b>	<b><i>IHP Ground floor</i></b>

### Friday June 6<sup>th</sup>

10.30 am – 12.00 pm	<b>A. Bauer</b>	Constructive Model Categories.
12.00 pm – 02.00 pm	<i>Lunch time</i>	
02.00 pm – 03.30 pm	<b>V. Voevodsky</b>	B-systems - a link which connects the syntax of dependent type theories with their semantics.
03.30 pm – 04.00 pm	<i>Coffee break</i>	<i>IHP Ground floor</i>