



TOPOSES IN COMO

School: 24-26 June 2018 - Conference: 27-29 June 2018

PROGRAMME

School: 24-26 June 2018

Sunday, June 24th, 2018

- 11.30-13.00 *Welcome cocktail and registration*
- 13.00-14.00 **Some glances at topos theory I**
Francis Borceux
- 14.00-15.00 **Some glances at topos theory II**
Francis Borceux
- 15.00-15.30 *coffee break*
- 15.30-16.30 **Grothendieck toposes as generalised spaces I**
Laurent Lafforgue
- 16.30-17.30 **Grothendieck toposes as generalised spaces II**
Laurent Lafforgue

Monday, June 25th, 2018

- 9.00-10.00 **Some glances at topos theory III**
Francis Borceux
- 10.00-11.00 **Some glances at topos theory IV**
Francis Borceux
- 11.00-11.30 *coffee break*
- 11.30-12.30 **Grothendieck toposes as generalised spaces III**
Laurent Lafforgue

- 12.30-14.00** *lunch*
- 14.00-15.00** **Grothendieck toposes as generalised spaces IV**
Laurent Lafforgue
- 15.00-16.00** **Grothendieck toposes as `bridges' between theories I**
Olivia Caramello
- 16.00-16.30** *coffee break*
- 16.30-17.30** **Grothendieck toposes as `bridges' between theories II**
Olivia Caramello

Tuesday, June 26th, 2018

- 9.00-10.00** **Some glances at topos theory V**
Francis Borceux
- 10.00-11.00** **Some glances at topos theory VI**
Francis Borceux
- 11.00-11.30** *coffee break*
- 11.30-12.30** **Grothendieck toposes as `bridges' between theories III**
Olivia Caramello
- 12.30-14.00** *lunch*
- 14.00-15.00** **Grothendieck toposes as `bridges' between theories IV**
Olivia Caramello
- 15.00-16.00** **The power of the simplest arithmetic examples of Grothendieck toposes I**
Alain Connes
- 16.00-16.30** *coffee break*
- 16.30-17.30** **The power of the simplest arithmetic examples of Grothendieck toposes II**
Alain Connes
- 21.00** **"LA MUSICA DELLE FORME", a PUBLIC LECTURE by Alain Connes**
Pinacoteca di Como
The lecture will be in French with simultaneous Italian translation

PROGRAMME

Conference: 27-29 June 2018

Wednesday, June 27th, 2018

- 9.00-10.00 **A topos-theoretic approach to systems and behavior**
David I. Spivak (joint work with Patrick Schultz)
- 10.00-11.00 **Models of Univalence in Toposes**
Andrew Pitts
- 11.00-11.30 *coffee break*
- 11.30-12.30 **Homotopy type theory, synthetic topology and probabilistic programming**
Bas Spitters
- 12.30-14.00 *lunch*
- 14.00-15.00 **On the relation between Grothendieck-Galois and Deligne-Tannaka theories**
Eduardo J. Dubuc
- 15.00-15.30 **An arithmetic site for $\mathbb{Q}(\sqrt{2})$**
Aurelien Sagnier
- 15.30-16.00 **Grothendieck categories as a bilocalization of linear sites**
Julia Ramos González
- 16.00-16.30 *coffee break*
- 16.30-17.00 **Topology of interactivity**
Stephane Dugowson
- 17.00-17.30 **Stochastic manifolds**
Anatole Khelif

Thursday, June 28th, 2018

- 10.00-11.00 **Cohomology to logic and back**
Tibor Beke
- 11.00-11.30 *coffee break*
- 11.30-12.30 **Isotropy of Toposes**
Pieter Hofstra
- 12.30-14.00 *lunch*
- 14.00-17.30 free afternoon
- 20.00 Social dinner at **RISTORANTE IMBARCADERO**

Friday, June 29th, 2018

- 10.00-11.00** **How topos theory can help commutative algebra**
Ingo Blechschmidt
- 11.00-11.30** *coffee break*
- 11.30-12.30** **Nonconnective structures**
Mauro Porta
- 12.30-14.00** *lunch*
- 14.00-15.00** **Elementary toposes from a predicative point of view**
Maria Emilia Maietti
- 15.00-15.30** **A geometric theory for o-minimal structures**
Henri Lombardi
- 15.30-16.00** **Infinitary generalizations of Deligne's completeness theorem**
Christian Espindola
- 16.00-16.30** *coffee break*
- 16.30-17.00** **Grothendieck toposes constructively, via arithmetic universes**
Steve Vickers
- 17.00-17.30** **Fibrations of contexts and fibrations of toposes**
Sina Hazratpour