



INSTITUT  
DE RECHERCHE  
EN INFORMATIQUE  
FONDAMENTALE

## Newcomers Day

November 6, 2017

Turing Amphitheater – Sophie Germain Building

**09h30-10h00** Coffee and croissants

**10h00-10h20** German Delbianco: *Hoare-style Reasoning with Concurrent and Distributed Resources*

**10h20-10h40** Theodosios Douvropoulos: *Counting labeled trees with symmetries*

**10h40-11h00** Juho Hirvonen: *Locality in distributed computing*

**11h00-11h05** Ny Aina Andriambolamalala: *Decentralized Communications and Beep Model*

**11h05-11h10** Ranadeep Biswas: *Weakly consistent distributed databases*

**11h10-11h15** Paulina Cecchi: *Orbital equivalence and algebraic invariants in symbolic dynamics*

**11h15-11h20** Yassine Hamoudi: *Quantum computation with restricted memory*

**11h30-11h45** Break

**11h45-12h35** Bérénice Delcroix-Oger: *Trees and operads*

**12h35-14h00** Lunch (on your own)

**14h00-14h20** Claire Mathieu: *Algorithms with noisy comparisons*

**14h20-14h40** Matthieu Josuat-Vergès: *Combinatorics of shuffle products: how to shuffle a deck of cards*

**14h40-15h00** Enrica Duchi: *Enumerative properties of fighting fish*

**15h00-15h05** Cédric Ho Thanh: *Opetopes, rewriting, and koszulity*

**15h05-15h10** Isaac Konan: *A Rogers-Ramanujan type identity : Siladic theorem*

**15h10-15h15** Victor Lanvin: *Gradual Set-Theoretic Types*

**15h15-15h20** Chaitanya Leena Subramaniam: *Dependent type theories and algebraic semantics*

**15h20-15h35** Break

**15h35-15h55** Eric Finster: *Type theory and higher topos theory*

**15h55-16h15** Valia Mitsou: *Limitations of treewidth for problems beyond NP*

**16h15-16h35** Ami Paz: *Upper and Lower bounds for the distributed CONGEST model*

**16h35-16h55** Nicolas Behr: *Rule algebras and the combinatorics of chemical reaction systems*

**16h55-17h00** Baptiste Louf: *Combinatorial maps : bijective and algebraic enumeration*

**17h00-17h05** Alessandro Luongo: *Quantum Machine Learning in theory and practice*

**17h05-17h10** Axel Osmond: *Title TBA*

**17h10-17h15** Yixin Shin: *Quantum Cryptanalysis*

**17h15-17h20** Leo Stefanescu: *Concurrent Separation Logic and Asynchronous Game Semantics*

**17h20-18h00** Cakes and drinks