

Preliminary Schedule -- Theory of Computation Session and Plenaries					
	Monday 10/02	Tuesday 11/02	Wednesday 12/02	Thursday 13/02	Friday 14/02
	From 08:30 Registration- Info Desk Room AT 441/08 - MAT	From 08:30 Registration- Info Desk Room AT 441/08 - MAT	From 08:30 Registration- Info Desk Room AT 441/08 - MAT	From 08:30 Registration- Info Desk Room AT 441/08 - MAT	From 08:30 Registration- Info Desk Room AT 441/08 - MAT
09:00 -09:30					
09:30 -10:00	Welcome- Opening remarks Auditorium-FT	H. Borges Filho	Paulo. R. C. Ruffino		
10:00 -11:00	Ernani Ribeiro Jr.	Carl Winsløw	Silvio Dolfi	Hugo Tavares	TBA
11:00 -11:30	COFFEE- BREAK				
11:30 -12:30	Leandro Rezende Room B	Thiago Ramos Room B	Ariane Almeida Room AS 432/10		
12:30 -14:00	LUNCH				
14:00 -15:10	Prof. Samuel Gomes da Silva Room B	Prof. Alexander Baumgartner Room B	Prof. Bruno Lopes Room B	Minicurso <i>Interactive Theorem Proving</i> LABIE	
15:10 -16:00	Bruno Delboni Room B	Gabriel Silva Room B	Kaliana Dias Room B		
16:00 -16:30	COFFEE-BREAK				
16:30 -17:20	Prof. Francicleber Ferreira Room B	Minicurso <i>Interactive Theorem Proving</i> LABIE	Minicurso <i>Interactive Theorem Proving</i> LABIE	Minicurso <i>Interactive Theorem Proving</i> LABIE	
17:20 -18:00					
18:00 -18:15					Closing Ceremony
18:15 -18:30	Cocktail- Opening Ceremony				
20:00h			Social Dinner		

Preliminary Schedule --- Plenaries

Room: Auditorium Roberto Salmeron-FT

1) Ernani de Sousa Ribeiro Júnior, Universidade Federal do Ceará,
An overview on four-manifolds with positive curvature

2) Herivelto Borges Filho, University of São Paulo
The Hasse-Witt invariant of generalized Fermat Curves

3) Carl Winsløw, University of Copenhagen
Lesson Study as a Paradidactic Infrastructure for Development of Mathematics Teacher Knowledge

4) Paulo Regis C. Ruffino, University of Campinas
Bifurcations in Dynamical Systems: from classical towards random

5) Silvio Dolfi, University of Florence
On some graphs of finite groups

6) Hugo Tavares, Universidade de Lisboa
Gradient elliptic systems with cooperative or competitive interactions: existence, asymptotics and qualitative properties

7) TBA

Preliminary Schedule --- Theory of Computation

Rooms: B - MAT , AS 432/10 - MAT and LABIE- IE

Minicourses:

1) Profa. Thaynara Arielly Lima e Prof. Mauricio Ayala Rincón, *IME -UFG e CIC-UnB*,
Interactively Proving Mathematical Theorems

Lecturers: *Thaynara Arielly Lima (UFG), Mauricio Ayala-Rincón (UnB)*

TAs: *Thiago Mendonça Ferreira Ramos, Ariane Alves Almeida (UnB)*

Abstract: *Although the acceptance of a mathematical truth will always depend on humans, nowadays finding researchers working together interactively with machines to produce formal proofs is no longer seen as an innovation but a requirement of modern mathematics (and mathematicians well-practice). This short-course will survey "proof theory" and "logical deduction" and, using the proof assistant PVS, participants (students and researchers at any level) will "put their hands in the dough" receiving a basic training to understand how to prove theorems using such powerful tools.*

Duration: 08:00

Local: LABIE - IE

Number of participants: *maximum 20*

Contributed Talks:

1) Prof. Alexander Baumgartner, *Universidad de O'Higgins*
Properties of Rule-Based Anti-Unification Algorithms

2) Prof. Bruno Lopes Vieira, *UFF*
A logical framework for exogenous component-based software reasoning with Reo

3) Prof. Francicleber Martins Ferreira, *UFC*
Bounded-Degree Fixed-Points in Linear Time

4) Prof. Samuel Gomes da Silva, *UFBA*
Reductions between certain incidence problems and the Continuum Hypothesis

5) Ariane Alves Almeida, *doutoranda, CIC-UnB*
Formalizing Termination of Functional Programs and Term Rewriting Systems in PVS

6) Bruno de Assis Delboni, *doutorando, MAT-UnB*
 β -equivalence of linear planar λ -terms

7) Gabriel da Silva, doutorando, MAT-UnB

Nominal C-Unification

8) Leandro O. Rezende, graduando, CIC-UnB

Extending the Locally Nameless Representation with an Explicit Substitution Operator

9) Kaliana Dias, doutoranda, CIC-UnB

Principal Typing for the $\lambda\sigma B$ -calculus

10) Thiago F. Ramos, doutorando, CIC-UnB

Formalization of Rice's Theorem for a Turing Complete Functional Language Model