

## Monday 29 August: CALCO-Jnr

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0845-0915	<b>Registration</b>
0915-0930	<b>Opening</b>
0930-1030	<b>Session I</b>
Baltasar Trancón Y Widen	<i>Coalgebraic Semantics of Recursive Computations</i> <a href="#">slides</a> <i>Circular Data Structures</i>
Toby Wilkinson.	<i>Internal Models for Coalgebraic Modal Logics</i>
1030-1100	Break
1100-1200	<b>Session II</b>
Tetsuya Sato.	<i>A nondeterministic probabilistic monad with non-determinism for coalgebraic</i>
Liang-Ting Chen and Achim Jung	<i>Finality for vector coalgebra beyond compact spaces and a generalized Jonsson</i>
1230-1430	Lunch
1430-1530	<b>Session III</b>
Michal Przybyłek.	<i>Realizable Institutions</i>
Tie Hou and Ulrich Berger	<i>Domain-theoretic Modelling of Functional Programming Languages</i>
1530-1600	Break
1600-1700	<b>Session IV</b>
Darin Morrison.	<i>Two Notions of Globular Setoids in Type Theory</i>
Fredrik Nordvall Forsberg	<i>Elimination Principles for Initial Algebras</i> <a href="#">slides</a> ]
1800-2000	<b>CALCO-Jnr Barbecue</b>

## Tuesday 30 August: CALCO and CALCO-Tools

0830-0900	<b>Registration</b>
0900-1000	<b>Opening and Invited talk</b>
Philippa Gardner.	<a href="#">Abstract Local Reasoning about Program Modules</a>
1000-1030	Break
1030-1230	<b>Session I: Coalgebraic logic</b>
Jort Bergfeld and Yde Venema	<i>Model constructions for Moss' coalgebraic logic</i>
Fredrik Dahlqvist and Dierk Platen	<i>On the translation of coalgebraic modal logics</i>
Corina Cirstea.	<i>Model Checking Linear Coalgebraic Temporal Logics: an Automata-Theoretic</i>

Katsuhiko Sano. *Generalized Product of Coalgebraic Hybrid Logics*  
1230-1400 Lunch  
1400-1530 **Session II: Induction and coinduction**  
Clément Fumex, Neil Ghafari and Patricia Johann *Coinduction, Fibrationally*  
Jiri Adamek, Mahdieh Hadzic and Stefan Mieske *Algorithms to Corecursive Monads* [slides](#) ]

Thorsten Altenkirch, Peter Morgan, Frederik Nordenskiöld, Floris van den Broek and Andrei Solov'ev [slides](#) ]

1530-1600 Break  
1600-1730 **Session III: CALCO-Tools**  
André Martins, Luís Barbosa and António Rodrigues *Automator for a component* [slides](#) ]

Ulrich Berger, Kenji Miyazaki and Tomasz Urbaniak *From Supervisors and Coalgebras to*

Pawel Sobocinski and Jérôme L. Rémy *Generation tool for wire calculus*  
1800-1900 **CALCO Welcome Reception**

### Wednesday 31 August: CALCO and CALCO-Tools

0900-1000 **Invited talk**  
Gopal Gupta. [Infinite Computation, Co-induction and Computational Logic](#)

1000-1030 Break

1030-1230 **Session I: Applications of coalgebras**

Bart Jacobs. *Bases as Coalgebras*

Joost Winter, Marcello Bonsangue and Jan Jäger *Reasoning Coalgebraically*

Ekaterina Komendantskaya *Categorical Poweroids for derivations in logic programming*

Jun Kohjina, Toshimitsu Ushio and Yukihiro Kinoshita *Supervisory Control of Partially Observed Mealy Automata*

1230-1400 Lunch

1400-1530 **Session II: System specification**

Camilo Rocha and José Meseguer *Safety Properties of Rewrite Theories* [slides](#) ]

Mihai Codrescu and Till Mossakowski *Resolving trees: calculi, tools and applications* [slides](#) ]

Manuel A. Martins, Alexandru I. Pasvaneț, Florin Diaconescu and Luis Barbosa.

1530-1600 Break

1600-1730 **Session III: CALCO-Tools**

Musab Alturki and José Meseguer *A Parallel Statistical Model Checking and Quantitative Analysis Tool*

Francisco Durán, Camilo Rocha and José Meseguer *Formal Environment* [slides](#) ]

Luca Aceto, Georgiana Carai, Eugenio Giunchiglia and Bisma Jaiswal [slides] GSOS with Predicates

**Thursday 1 September: CALCO**

0900-1000 **Invited talk**  
Javier Esparza. [Solving Fixed-Point Equations by Derivation Tree Analysis](#) [  
[slides](#)

1000-1030 Break  
1030-1230 **Session I: Effects. Bialgebras.**  
Rasmus Ejlers Møgelberg and Sascha Strohmann. *Linear/State in models of call-by-value*  
Sergey Goncharov and A. C. Schöberl. *A Concrete Example to Tensorability of Effects* [  
[slides](#) ]

Baltasar Trancón Y Widen. *Distributive Laws and Modules for Cellular Automata* [  
[slides](#) ] *Agent-Based Models*

Ichiro Hasuo. *The Microcosm Principle and Compositionality of GSOS-Based Component*

1230-1400 Lunch  
1430-1730 **Guided tour** , Winchester College and the City of Winchester  
1900- **Conference Banque** t, Winchester Guildhall

**Friday 2 September: CALCO**

0900-1030 **Session I: Categorical foundations**  
Marta Bilkova, Alexander Kurz, Daniel Rahn, Peter Ravnkilde, Liri Velebil. [  
[slides](#) ]

Adriana Balan and Alexander Kurz. *Finality Functors: from Set to Preord and Posets* [  
[slides](#) ]

Murdoch Gabbay, Tadeusz Litak, Daniela Petrucci. *Boolean algebras with `new': topologising Banon*

1030-1100 Break  
1100-1230 **Session II: Discussion panel**  
1230-1400 Lunch  
1400-1500 CALCO Steering Committee meeting