

Computation, Physics and Beyond

Program of the International Workshop on Theoretical Computer Science (WTCS 2012)

Venue: Building 303S Room 561 (Computer Science Meeting Room)

All talks planned for 45 minutes for possible coffee breaks in between.

Tuesday February 21 (afternoon)

V.I.P.

Conference Opening 1pm

Hermann Maurer

Calude as Father of One of the Computer Science Journals 1:10pm

Douglas S. Bridges and Luminita S. Viță

Constructing the Infimum of Two Projections 2pm

V. Kruglov, K. A. Makarov, B. Pavlov and A. Yafyasov

Exponential Decay in Quantum Mechanics 3pm

Wednesday February 22 (morning)

Cezar Câmpeanu

A Note on Blum Static Complexity Measures 9am

Ziyuan Gao, Frank Stephan, Guohua Wu and Akihiro Yamamoto

Learning Families of Closed Sets in Matroids 10am

Rūsiņš Freivalds

Hartmanis-Stearns Conjecture on Real Time and Transcendence 11am

Wednesday February 22 (afternoon)

Helmut Jürgensen

Invariance and Universality of Complexity 1pm

Barry Cooper

Mathematics, Metaphysics and the Multiverse 2pm

Haiming Chen and Sheng Yu
Derivatives of Regular Expressions and An Application 3pm

Wednesday February 22 (evening)

Conference Dinner
Mecca DevonPort (1 Victoria Road, Devonport) 7pm

Thursday February 23 (afternoon)

Stephen Wolfram
Is the Universe Like π or Ω ? (video) 12noon

Kohtaro Tadaki
Phase Transition between Unidirectionality and Bidirectionality 1pm

Ludwig Staiger
On Oscillation-free Chaitin h -random Sequences 2pm

Marius Zimand
Symmetry of Information: A Closer Look 3pm

Friday February 24 (morning)

Jacques Patarin
Some Transfinite Generalisations of Gödel's Incompleteness Theorem 9am

Giuseppe Longo and Maël Montévil
Randomness Increases Order in Biological Evolution 10am

Karl Svozil
Haunted Quantum Contextuality Versus Value Indefiniteness 11am

Friday February 24 (afternoon)

Michael J. Dinneen
A Program-Size Complexity Measure for Mathematical Problems
and Conjectures 1pm

Solomon Marcus
The Art of Reaching the Age of Sixty (recorded video) 2pm

Any Survivors
Domain BBQ with Department of Computer Science 4pm