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 $\pi$ or $\Omega$? (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