Department of Mathematics
Programme of the Student Research Conference
(Monday, 10 of June, SLT1/303-G01)

9:25 **Opening address of the Conference**

9:30 **Pascal Eun Sig Cheon,** *Nonstationary inverse problems in practice,* PhD, Jari Kaipio
9:46 **Lukas Zobernig,** *Correcting public and private errors,* PhD, Steven Galbraith
10:02 **Vincent Russell,** *State estimation of the size distribution and underlying physical processes of aerosols,* PhD, Jari. Kaipio
10:18 **Georgina Liversidge,** *Counting Condorcet domains,* PhD, Marston Conder

10:34 **Morning tea**

11:00 **Shintaro Fushida-Hardy,** *Asymptotic curvature of constant mean curvature hypersurfaces in Minkowski space,* BSc Hon, Rod Gover
11:16 **Daniel Snell,** *CR geometry and its distinguished curves,* PhD, Rod Gover
11:32 **Anton Baykalov,** *Intersection of conjugate solvable subgroup in linear and unitary finite group,* PhD, Eamonn O'Brien and Jianbei An
11:48 **Peter Huxford,** *Short presentations of alternating and symmetric groups,* BSc Hon, Eamonn O'Brien
12:04 **Ravindra Bandara,** *Modelling pulse propagation along an optical fibre with Higher order dispersion – do such solitons exist?* PhD, Bernd Krauskopf and Neil Broderick

12:20 **Lunch**

13:10 **Chris Wong,** *Elliptic operators with Neumann boundary conditions,* PhD, Tom ter Elst
13:26 **Kevin C. Stitely,** *Emergence of chaotic dynamics in an unbalanced dicke mode,* PhD, Bernd Krauskopf and Neil Broderick
13:42 **Nelson Wong,** *Connections between saddle periodic orbits as organising centres of complicated dynamics,* PhD, Bernd Krauskopf and Hinke Osinga
13:58 **Sean Carroll,** *Representations of quivers and dense orbits,* MSc, Jeroen Schillewaert
14:14 **Ian Xiao,** *Classification and construction of semisimple Lie algebras,* MSc, Jeroen Schillewaert
14:30 **Songbao Mo,** *Classification of ideal secret sharing schemes,* PhD, Arkadii Slinko

14:46 **Afternoon tea**

15:10 **Valerie Jeong,** *Evolving robots that have heteroclinic brains,* PhD, Claire Postlethwaite and Matthew Egbert
15:26 **Gray Manicom,** *Modelling task switching with noisy heteroclinic networks,* PhD, Claire Postlethwaite and Vivien Kirk
15:42 **David Farrell,** *Generalised Stone dualities,* BSc Hon, Pedram Hekmati
15:58 **Molly Riley Knoedler,** *Investigations of an unpublished John von Neumann manuscript on boostered detonations,* MSc, Chad Higdon-Topaz

16:30 **Drinks and nibbles. Announcement of prizes!**