

Examensarbeten i matematik presenterade under 2014

Grundnivå, 15 högskolepoäng

2014:1 Niklas Hedberg: Derivation of Runge-Kutta order conditions.Handledare: Ivan Martino

2014:2 Mark Anderstam: Solution methods to polynomial equations over \mathbb{Z}_2 .Handledare: Samuel Lundqvist

2014:3 Johannes Berglind Söderqvist: Monte Carlo Backtesting.Handledare: Salla Franzén och Karl Rökaeus

2014:4 Kajsa Modin: Robustness in bacterial chemotaxis.Handledare: Yishao Zhou

2014:6 Alex Loiko: An algebraic approach to the problem of graph isomorphism.Handledare: Boris Shapiro

2014:7 Erik Boström: On a Problem of Burgers' Equation with Homogeneous Neumann Boundary Conditions.Handledare: Yishao Zhou

2014:9 Joakim Berg: Matrix decompositions in linear algebra.Handledare: Yishao Zhou

2014:10 Marie Miller: The duality and efficiency in semidefinite programming.Handledare: Yishao Zhou

2014:11 Joakim Wennlund: Schemaläggning 90/10 - Ett linjärt optimeringsproblem.Handledare: Torbjörn Tambour

2014:12 Victor Wase: On the Mathematics of Spatial Hearing.Handledare: Yishao Zhou

2014:13 Emil Håkansson: On Quantum Mechanical Scattering Theory And Its Connection To Unitary Matrices.Handledare: Pavel Kurasov

2014:14 Armin Tavakoli: Quantum Nonlocality in Star-Network Entanglement Swapping Configurations.Handledare: Antonio Acín och Rikard Bögvad

2014:15 Assar Andersson: Solving polynomial equations over \mathbb{Z}_2 using DPLL methods.Handledare: Samuel Lundqvist

2014:16 Johannes Nilsson: Arabisk matematik - en historisk och didaktisk studie.Handledare: Torbjörn Tambour

2014:17 Valentina Kudinova: Den halv-analytiska metoden för aerodynamiska svängningar.
Handledare: Annemarie Luger

2014:18 Hannes Vestberg: Representation theory of the symmetric group. Handledare: Rikard Bögvad

2014:22 Josefine Röhss: Analysing k-mer distributions in a genome sequencing project.
Handledare: Kristoffer Sahlin

2014:26 Lukas Runsäter: Att välja tal - en studie av ett givet matrisspel i normalform.
Handledare: Yishao Zhou

2014:27 Johan Klint: Firing patterns and multistability in a neuron model. Handledare: Yishao Zhou

2014:28 Linus Lidman Bergqvist: An introduction to Sobolev spaces. Handledare: Joel Andersson

2014:29 Arthur Shagulian: Generating Functions and Applications. Handledare: Paul Vaderlind

2014:30 Emil Sjöholm: Symmetric Polynomials and Tableaux. Handledare: Rikard Bögvad

2014:31 Jean-Claude Kik: Matching Conditions for the Laplace and Squared Laplace Operator on a Y-graph. Handledare: Pavel Kurasov

Grundnivå, 30 högskolepoäng

2014:19 Robert Jensen: Primitalsfördelningar i linjära och icke linjära mängder. Handledare: Rikard Bögvad

Avancerad nivå, 30 högskolepoäng

2014:5 Tobias Wöhrer: Asymptotic behaviour of the Weyl-function for one-dimensional Schrödinger operators with measure-valued potentials. Handledare: Annemarie Luger (Stockholms universitet) och Gerald Teschl (Universität Wien)

2014:8 Lisa Nicklasson: Geometric constructions and solutions of cubic equations.
Handledare: Christian Gottlieb

2014:20 Gustav Karreskog: Universal bounds on the eigenvalues of compact finite quantum graphs. Handledare: Pavel Kurasov

2014:21 Isak Trygg Kupersmidt: On the ground state of quantum graphs: delta-conditions and potentials. Handledare: Pavel Kurasov

2014:23 Bashar Saleh: Cyclic homology and T-equivariant (co)homology of free loop spaces.
Handledare: Alexander Berglund

2014:24 Alexander Beigl: Spectral Deformations and Singular Weyl-Titchmarsh-Kodaira
Theory for Dirac Operators. Handledare: Annemarie Luger

2014:25 Michela Di Marca: Properties of the associated graded ring of a commutative ring.
Handledare: Christian Gottlieb

2014:32 Andrea Serio: Quantum graphs: spectrum and magnetic fields. Handledare: Pavel
Kurasov (Stockholms universitet) och Paolo Ciatti (University of Padua)