

Kandidat- och masterarbeten i matematik presenterade under 2020

Kandidatarbeten

2020:K1 Jessica Wångström: Genererande funktioner.Handledare: Torbjörn Tambour

2020:K2 Erik Melander: Sobolev norm estimates of the time dependent Schrödinger equation.
Handledare: Salvador Rodriguez-Lopez

2020:K3 Martin Evertsson: Spectral graph theory and graph connectivity. Handledare: Boris Shapiro

2020:K4 Sanna Severinsson: Perfect squared squares. Handledare: Pavel Kurasov

2020:K5 Johan Eriksson Viklund: Några geometriska konstruktioner med passare och linjal.
Handledare: Alan Sola

2020:K6 Marko Kocic: The spectral theorem for normal operators and applications.
Handledare: Sven Raum

2020:K7 Olavus Rogowski: Kedjebråk, Fareyföljder och Fordcirklar. Handledare: Håkan Granath, Annemarie Luger

2020:K9 Joel Åhfeldt: Permutation groups and some applications on graph theory.
Handledare: Paul Vaderlind

2020:K10 Lois Veen: The SIR Model: Understanding the Spread of Disease. Handledare: Yishao Zhou

2020:K11 Salwan Alnakar: Sylows satser och några tillämpningar. Handledare: Håkan Granath

2020:K12 Basam Al Nashéa: Cyclic Sieving Phenomenon on Colorings of Cycle Graphs.
Handledare: Per Alexandersson

2020:K13 Fredrik Cumlin: Geometric interpretation of non-associative composition algebras.
Handledare: Wushi Goldring

2020:K14 Leo Gustafsson: Cayley-Hamiltons sats. Handledare: Alan Sola

2020:K15 Lina Palm: Belyi's Theorem and Belyi Maps on Hurwitz Curves. Handledare: Wushi Goldring

2020:K16 Ernst Cederholm: Kontrollteoretiska ri-funktioner.Handledare: Yishao Zhou

2020:K17 Olle Bergström Jonsson: Finding a Precursor to Rare Events in a Dynamical System. Handledare: Woosok Moon

2020:K18 Josefin Eek: Evolutor. Handledare: Rikard Bögvad

2020:K19 Sebastian Franzén: A comparison of two proofs of Donsker's theorem. Handledare: Daniel Ahlberg

2020:K20 Matilda Söderberg Jansson: En okänd geometrisk sats och dess tillämpningar. Handledare: Torbjörn Tambour

2020:K21 Joline Granath: Finite Blaschke products and their properties. Handledare: Annemarie Luger

2020:K22 Sebastian Fodor: Understanding Convergence of Accelerated Gradient Descent Methods. Handledare: Yishao Zhou

2020:K23 Benjamin Khademi: Cyclic sieving on closed walks in abelian Cayley graphs. Handledare: Per Alexandersson

2020:K24 Andreas Ma: Dynamisk system i diskret tid. Handledare: Annemarie Luger

2020:K25 Ludvig Olsson: Brauer's Theorem and Beyond. Handledare: Wushi Goldring

2020:K26 Lina Hagel: Stirlingtalen. Handledare: Torbjörn Tambour

2020:K27 Anders Johansson: Matrix Invariants. Handledare: Torbjörn Tambour

2020:K28 Katayoon Khosraviani: Gaussiska heltal, entydig faktorisering och tvåkvadratsatsen. Handledare: Håkan Granath

2020:K29 Martin Willert: Three Families Indexed by Catalan Objects. Handledare: Per Alexandersson

2020:K30 Nasrin Naseri: Handelsresande i Sverige.Handledare: Sven Raum

2020:K31 Seuri Basilio Kuosmanen: Classical finite simple groups. Handledare: Sven Raum

2020:K32 Bianca Tvrtkovic: En upptäcktsresa runt Fibonaccis talföljd. Handledare: Håkan Granath

2020:K33 Maia Jenawi: Historisk utveckling av Linjär Algebra och dess tillämpningar.
Handledare: Boris Shapiro

2020:K34 Liana Ghukasyan: Binomialsatsen. Handledare: Annemarie Luger

2020:K35 Sofia Killander: Projektiv geometri. Handledare: Torbjörn Tambour

2020:K36 Emilia Dunfelt: Quantum Computing: From Shor's Algorithm to The Hidden Subgroup Problem. Handledare: Sven Raum

2020:K37 Oscar Johansson: Om talet pi. Handledare: Torbjörn Tambour

2020:K38 Peter Fogelberg: Transformationer på invarianta delrum och Jordans normalform.
Handledare: Gregory Arone

2020:K39 Gustav Yilbar Kjellström: Kvantifikatorelimination. Handledare: Torbjörn Tambour

2020:K40 Leo Kurpatow: Uncertain mixed strategy games. Handledare: Yishao Zhou

2020:K41 Per Idenfeldt: Quantum Computation and Shor's Algorithm. Handledare: Olof Sisask

2020:K42 Wictor Zawadzki: RNG and Derandomized Algorithms. Handledare: Olof Sisask

2020:K43 Setayesh Kormi Nouri: Algebrans fundamentalsats. Handledare: Torbjörn Tambour

2020:K44 Tobias Malmgren: Analysens Fundamentalsats. Handledare: Boris Shapiro

2020:K45 Per Helder: Richard's paradox: Impredicativity and infinity coinciding.
Handledare: Rikard Bögvad

2020:K46 Klara Wigzell: Hilbert's Third Problem. Handledare: Torbjörn Tambour

2020:K47 Emma Aho: The impossibility of solving a quintic equation. Handledare: Torbjörn Tambour

Masterarbeten

2020:M1 Oskar Berndal: Type theoretic semantics for first order logic. Handledare: Peter Lumsdaine

2020:M2 Elisabeth Bonnevier: Formalizing Cartesian Cubical Sets in UniMath. Handledare: Anders Mörtberg

2020:M3 Philip Stassen: An Analysis of Curiens Explicit Syntax for Dependent Type Theory.
Handledare: Peter Lumsdaine, Guillaume Brunerie

2020:M4 José Tapia Quijada: Stability Analysis of Dynamic Mathematical Models in Systems
Biology. Handledare: Yishao Zhou

2020:M5 William Rupush: A Cybernetic Theory of Heat and Work. Handledare: Yishao Zhou

2020:M6 Axel Ljungström: Computing Cohomology with Cubical Agda. Handledare:
Guillaume Brunerie, Anders Mörtberg

2020:M7 Jonatan Rune: FI-Modules and Church's Theorem. Handledare: Alexander
Berglund, Tomas Zeman

2020:M8 Peter Brohan: Quasi-Newtonian Optimisation for Deep Neural Networks.
Handledare: Yishao Zhou