

Curriculum Vitæ

Personal Data

Name Lukas Markus Andritsch
Title **Dr.**
Address Heinrichstrasse 36, 8010 Graz
E-Mail lukas.andritsch@uni-graz.at
last update 02/2019

Education

10/2015–02/2019 **Ph. D.**, *University of Graz*, DK Discrete Mathematics, Austrian Science Fund (FWF): W1230.
PhD thesis: *Combinatorial aspects of tilings*, supervised by Prof. Dr. Karin Baur
02/2014 – 09/2015 **MSc**, *Graz, University of Technology*, Master programme: *Mathematical Computer Science*.
Master thesis: *Boundary algebra of a GL_2 -web*, supervised by Prof. Dr. Karin Baur
09/2009–01/2014 **BSc**, *Graz, University of Technology*, Bachelor programme: *Technical Mathematics*.
Bachelor thesis: *Elliptic Curves: Subfield Curves and Cryptographic Applications*, supervised by Ao.Univ.-Prof. Dr. Clemens Heuberger

Publications

10/2018 **Perfect k -colored matchings and $k+2$ -gonal tilings**, *Oswin Aichholzer, L. A., Karin Baur and Birgit Vogtenhuber*, *Graphs and Combinatorics* (2018) 34: 1333.
<https://doi.org/10.1007/s00373-018-1967-8>.
04/2018 **Boundary algebra of a GL_m -dimer**, preprint, arXiv:1804.07243.
02/2018 **A note on friezes of type Λ_4 and Λ_6** , preprint, arXiv:1802.08144.
01/2017 **Perfect k -colored matchings and $k+2$ -gonal tilings**, *Oswin Aichholzer, L. A., Karin Baur and Birgit Vogtenhuber*, Conference Paper for EuroCG-17, Malmoe, SWE, April 5-7, 2017.
This conference paper is planned to be published as an expanded (detailed) version.
in preparation **Flips in triangulations and in matchings**, *Oswin Aichholzer, L. A., Karin Baur and Birgit Vogtenhuber*.

Research stay

09/2017–02/2018 **University of Leeds (UK)**, invited by Prof. Robert J. Marsh.

Conferences and Summer schools

09/2018 **Conference**, CSASC, Bratislava, SK.

- 07/2018 **Conference**, *WFNMC Congress*, Semriach, Aut.
- 06/2017 **Summer School**, *New trends in Representation Theory*, Leicester, UK.
- 04/2017 **Conference**, *EuroCG*, Malmoe, SWE.
- 09/2016 **Fall school**, *Discrete Geometry and Topology*, Graz, University of Technology.
- 07/2016 **Conference**, *Rings and Polynomials*, University of Graz.
- 03/2016 **Conference**, *Cluster Algebras and Geometry*, University of Muenster, GER.
- 01/2016 **Conference**, *Combinatorial and Additive Number Theory*, University of Graz.
- 09/2015 **Summer school**, *Infinite-dimensional Representations of Finite-dimensional Algebras*, University of Manchester, UK.

Talks

- 11/2018 **Perfect k colored matchings and $k + 2$ -gonal tilings**, *Seminar AGDM*, University of Vienna, November 20, 2018.
- 11/2018 **Friezes of type Λ_4 and Λ_6** , *University of Graz*, Doctoral school Mathematics and Scientific Computing, November 16, 2018.
- 11/2018 **A note on Friezes of type Λ_p** , *CSASC*, Bratislava, SK, September 14, 2018.
- 04/2017 **Perfect k colored matchings and $k + 2$ -gonal tilings**, *EuroCG*, Malmoe, SWE, April 05, 2017.
- 11/2016 **Boundary algebra of a GL_m -dimer**, *Advanced Seminar in Algebra and Number Theory*, University of Graz, November 17, 2016.
- 11/2016 **Boundary algebra of a GL_2 -dimer**, *Doctoral school Mathematics and Scientific Computing*, University of Graz, November 11, 2016.

Further Work Experiences

- since 09/2015 **Lecturer**, *University of Graz*.
Analysis (exercise class), Mathematics for Biologists, Mathematics at school: linear algebra and analytic geometry (for teachers), Discrete Mathematics (exercise class)
- since 09/2013 **External teacher (20%)**, *BRG Kepler*, Graz.
Mathematical Olympiads for high school students and After school care
- since 2011 **Work for Kangaroo of Mathematics**.
developing the Austrian version of the Kangaroo Mathematics Competition, see: <http://www.kaenguru.at/>
- 10/2014–09/2017 **Project assistant**, *University of Graz*.
Organizing Erasmus+ project: *Mathematical Duel 2015/17*, mathematical competitions for pupils of Austria, Poland and Czech Republic
- 09/2010 – 06/2015 **Tutor**, *Graz, University of Technology*.
Mathematics for Mechanical Engineers, Design and Analysis of Algorithm
- 11/2010 – 09/2014 **Employee (30%)**, *AVL-List*, Graz.
Development of applications and methods: evaluation of raw data of exhaust gases at engine test bed. Implementation of generic routines based on mathematical and statistic models