

Aleksas Mazeliauskas

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69120 Heidelberg, Germany	Nationality	Lithuanian

Education

- 2012–2017 **Stony Brook University**, United States, PhD in Physics
Nuclear Theory Group, advisor Prof Derek Teaney, outstanding theoretical thesis
- 2011–2012 **University of Cambridge**, United Kingdom, Master of Mathematics (Part III)
Advanced courses in theoretical physics, graduated with distinction
- 2008–2011 **University of Cambridge**, United Kingdom, BA (Hons) Mathematics (Tripos)
1st class degree (ranked 8/211 in final year exams)
- 2007–2008 **Vilnius University**, Faculty of Physics, Lithuania; first year course in physics
- 1999–2007 **Mažeikių Gabijos gimnazija**, secondary school, graduated with distinction
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Research experience

- Heidelberg** 2017–2019 Postdoctoral researcher at the Institute for Theoretical Physics, Heidelberg University.
Work on early time dynamics of heavy ion collisions and out-of-equilibrium quantum systems as a part of the collaborative research center SFB 1225 ISOQUANT under the principal investigators Prof Jürgen Berges and Dr Stefan Flörchinger.
- Stony Brook** 2014–2017 *Fluctuations in ultra-relativistic heavy ion collisions*—PhD dissertation work under supervision of Prof Derek Teaney, Nuclear Theory Group.
- o Early stages of heavy ion collisions with effective kinetic theory equilibration
 - o Nonlinear thermal noise corrections to heavy ion expansion
 - o Subleading harmonic flows and factorization breaking with principal components
 - o 3D viscous relativistic hydrodynamic code for heavy ion collisions
- Stony Brook** 2013–2014 Analyzed temperature dependent corrections to anomalous transport coefficients.
With Prof D. Kharzeev and Dr T. Kalaydzhyan, Nuclear Theory Group.
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Teaching experience

- 2014 **Recitation instructor** for calculus based undergraduate electromagnetism and mechanics courses (2 semesters). Selected student responses: *I think the instructor was more valuable than the course itself.; I would love to see him become a professor one day and attain his career goals.; He would do a fantastic job in teaching the entire course.*
- 2012–2013 **Teaching assistant** for undergraduate mechanics laboratory (2 semesters), named outstanding Teaching Assistant.

Awards

- 2017 Max Dresden Prize for outstanding theoretical thesis
- 2016 APS FGSA Travel Award for Excellence in Graduate Research
- 2013 David Fox award for the outstanding Teaching Assistant
- 2009-2011 Master's Sizarship for outstanding achievement by undergraduate member of College, T W Armour Prize for outstanding performance in University examination in Mathematics, John Cartwright (1674) scholarship, Misys Charitable Foundation award for good academic progress, Drury-Johns Mathematical Prize,
- 2006-2007 Honourable mention in International Physics Olympiad, Iran, Vilnius International Rotary Club scholarship, Honourable mention in International Physics Olympiad, Singapore

Languages

Lithuanian	native, enthusiastic teacher	Russian	basic, conversational speaking
English	fluent, higher education in English	German	intermediate

Programming

- Programming Extensive numerically oriented coding in C++ and Python, previous experience with Fortran and Matlab, working knowledge of Mathematica
- General IT Git (source code management), \LaTeX (word processing), Inkscape (vector graphics), GNU/Linux (operatin system)

Publications

2017

- Y. Akamatsu, **A. Mazeliauskas** and D. Teaney
Bulk viscosity from hydrodynamic fluctuations with relativistic hydro-kinetic theory , arXiv:1708.05657 [nucl-th]
- Y. Akamatsu, **A. Mazeliauskas** and D. Teaney
A kinetic regime of hydrodynamic fluctuations and long time tails for a Bjorken expansion, Phys. Rev. C 95, 014909 (2017)

2016

- A. Keegan, L. Kurkela, **A. Mazeliauskas** and D. Teaney
Initial condition for hydrodynamics from weakly coupled pre-equilibrium evolution, JHEP 1608 (2016) 171
- A. Mazeliauskas** and D. Teaney
Fluctuations of harmonic and radial flow in heavy ion collisions with principal components, Phys. Rev. C 93, 024913 (2016)

2015

- A. Mazeliauskas** and D. Teaney
Subleading harmonic flows in hydrodynamic simulations of heavy ion collisions, Phys. Rev. C 91, 044902 (2015)

Conferences, workshops and summer schools

* – speaker, †– poster

2017

- Oct 2-5 * **XII High-pT Physics Workshop**, Bergen, Norway
- Sep 18-22 * **IV Initial Stages**, Krakow, Poland
- Aug 7-11 * **Critical Point and Onset of Deconfinement**, Stony Brook, New York
- Jun 12-16 * **XII Workshop on Particle Correlations and Femtoscopy**, Amsterdam, The Netherlands
- Feb 13-15 **QCD in Finite Temperature and Heavy-Ion Collisions**, Brookhaven National Lab, New York
- Feb 5-11 * **XXVI Quark Matter**, Chicago, Illinois

2016

- Sep 12-17 * **VII Hot Quarks**, South Padre Island, Texas
- May 23-27 * **III Initial Stages**, Lisbon, Portugal

2015

- Sep 28-Oct 3 † **XXV Quark Matter**, Kobe, Japan
- Jul 20-24 * **Correlations and Fluctuations in p+A and A+A Collisions**, INT, Seattle, Washington
- Jun 29-Jul 3 † **VII Hard Probes**, Montreal, Canada
- Jul 15-25 **XXVII National Nuclear Physics Summer School**, Tahoe, California
- Mar 27-28 * **Ohio-Region APS meeting**, Kent, Ohio
- Mar 4-6 * **Collectivity in Small Colliding Systems with High Multiplicity**, Brookhaven National Lab, New York
- May 19-24 **XXIV Quark Matter**, Darmstadt, Germany

2014

- Feb 24-28 **Strongly Coupled Systems Away From Equilibrium**, SCGP, Stony Brook
- Feb 17-21 **Quantum Anomalies and Hydrodynamics**, SCGP, Stony Brook, New York

2013

- Jul 15-26 **XXV National Nuclear Physics Summer School**, Stony Brook, New York