

Curriculum vitae

Rouven Frassek

POSITIONS

- 2019 Postdoctoral Researcher
Ecole Normale Supérieure (ENS), Paris, France
- 2018–2019 Postdoctoral Researcher
Max Planck Institute for Mathematics (MPIM), Bonn, Germany
- 2016–2018 Postdoctoral Researcher
Institut des Hautes Études Scientifiques (IHÉS), Bures-sur-Yvette, France
- 2013–2016 Early Stage Researcher
Department of Mathematical Sciences of Durham University, Durham, UK

EDUCATION

- 2010–2014 Research doctorate (PhD)
Humboldt University of Berlin and Albert-Einstein-Institute, Germany.
Final year at Durham University, United Kingdom
- 2004–2010 Diploma studies in Physics
2007–2010 Humboldt University of Berlin, Germany
2006–2007 University of Vienna, Austria
2004–2006 Hamburg University, Germany
- 2003–2004 Civilian service in the hospital St. Adolf Stift, Reinbek, Germany
- 2003 Abitur at Hansa Gymnasium Bergedorf, Hamburg, Germany

DEGREES OBTAINED

- Doctor Rerum Naturalium** in Theoretical Physics
Thesis Q-operators, Yangian invariance and the quantum inverse scattering method
Advisor Prof. Dr. Matthias Staudacher
Institution Albert-Einstein-Institute and Humboldt University, Germany.
Date 28. November 2014
- Diploma** in Physics
Thesis Superprotected operators in the AdS/CFT correspondence
Advisor Dr. Nadav Drukker and Prof. Dr. Jan Plefka
Institution Humboldt University of Berlin, Germany.
Date 24. February 2010

AWARDED FELLOWSHIPS

- Nov. 2019–Oct. 2021 DFG Forschungsstipendium– Individual postdoctoral fellowship
- Nov. 2013–Oct. 2016 Marie Curie-Sklodowska – Early Stage Research fellowship
- Apr. 2010–Oct. 2013 International Max Planck Research School, PhD fellowship

LANGUAGE SKILLS

German: native language, English: fluent, French: basic

TEACHING ACTIVITIES

- Tutorials Group Theory, Michaelmas term 2015, Durham University
- Tutorials Standard Model, Michaelmas term 2014, Durham University
- Tutorials Group theory, Michaelmas term 2014, Durham University
- Tutorials Single Math A, Easter term 2014, Durham University
- Exercises Linear Algebra and Analytic Geometry, Winter term 2012, Humboldt University
- Tutorials Mathematical Foundations, Winter term 2011, Humboldt University

ORGANISATION OF SCIENTIFIC MEETINGS

- 2015 Organising committee, Young researchers integrability school, Durham, UK
- 2018 Local organising committee, Driving solution for Science in Business, Saclay, FR

PROFESSIONAL SERVICES

- Referee for
 - Journal of Physics A
 - Journal of High Energy Physics
- Guest editor for
 - Special Issue in Journal of Physics A
An integrability primer for the gauge-gravity correspondence,
J. Phys. A: Math. Theor. 49 (2016) 320301

INSTITUTIONAL RESPONSIBILITIES

- Oct. 2015 - Nov. 2016 Board of Studies (Postdoctoral representative)
Department of Mathematical Sciences, Durham
- Oct. 2014 - Nov. 2016 Organisation of local HEP seminar, Durham
- Oct. 2013 - Apr. 2014 Organisation of HEP journal club, Durham
- May 2014 - Jun. 2014 Organisation of an integrability discussion group, Durham

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

- Member of the *Marie Curie Alumni Association (MCAA)*
- Member of the *Deutsche Physikalische Gesellschaft (DPG)*

SOFT SKILL TRAININGS

- Career development training by Sanja Stevic at DESY, Hamburg
- GATIS outreach workshop at Filmstudios Babelsberg in Potsdam
- Presentation skills workshop by Elena Kaufman at DESY, Hamburg
- Writing skills workshop by Annelie Wendeberg at DESY, Hamburg
- Science communication workshop by SISSA Medialab in London

MAJOR COLLABORATIONS

- Vasily Pestun (Integrable models and supersymmetric gauge theories),
Institut des hautes études scientifiques, France
- Matthias Staudacher ($\mathcal{N} = 4$ super Yang-Mills theory and Q-operators),
Humboldt University of Berlin, Germany
- Vladimir Bazhanov (Integrable models)
Australian National University, Australia

TALKS AT CONFERENCES AND WORKSHOPS

- Sep. 2018 Baxter Q-operators and some new solutions to the Yang-Baxter equation,
Recent Advances in Quantum Integrable Systems (RAQIS)
Annecy, France
- Oct. 2017 Representations of Yangians and Baxter Q-operators,
Paris postdoc welcome day,
IHES, France
- Nov. 2015 Q-operators for closed and open spin chains,
North British Mathematical Physics Seminar,
Durham University, United Kingdom
- Jun. 2014 Q-operator construction for rational homogeneous closed spin-chains,
Finite-size Technology in Low Dimensional Quantum Systems (VII),
Eötvös Loránd University, Hungary
- Apr. 2014 Bethe ansatz for Yangian invariants: Towards scattering amplitudes,
Integrable Structures in Scattering Amplitudes,
Durham University, United Kingdom
- Mar. 2014 Bethe ansatz for Yangian invariants: Towards scattering amplitudes,
North British Mathematical Physics Seminar,
Heriot-Watt University Edinburgh, United Kingdom
- Aug. 2013 Bethe ansatz for Yangian invariants: Towards scattering amplitudes,
Integrability in Gauge and String Theory,
Utrecht University, Netherlands
- Aug. 2012 From Q-operators to local charges,
International Congress in Mathematical Physics (YRS),
Aalborg, Denmark

INVITED SEMINARS

- Jun. 2019 Non-compact spin chains and integrable stochastic particle processes,
University of Wuppertal, Germany
- Mar. 2019 Q-operators for rational spin chains,
University of Tours, France
- Jan. 2019 Q-operators for rational spin chains,
University of Burgundy, France
- Dec. 2018 The closed and open integrable XXX Heisenberg chain,
University of Modena and Reggio Emilia, Italy
- Mar. 2018 Baxter Q-operators for rational spin chains,
ENS Lyon, France
- Nov. 2017 On-shell diagrams from integrability,
University of Freiburg, Germany
- Nov. 2016 Q-operators for the open Heisenberg chain,
IPhT, CEA-Saclay, France
- Oct. 2016 Q-operators for the open Heisenberg chain,
University of York, United Kingdom
- Mar. 2016 Q-operators for the open Heisenberg chain,
Humboldt University of Berlin, Germany
- Mar. 2016 Q-operators for the open Heisenberg chain,
Heriot-Watt University Edinburgh, United Kingdom

- Feb. 2016 Q-operators for the open Heisenberg chain,
Niels Bohr Institute Copenhagen, Denmark
- Feb. 2016 Q-operators for the open Heisenberg chain,
University of Leeds, United Kingdom
- Jan. 2016 Q-operators for the open Heisenberg chain,
University of Wuppertal, Germany
- Mar. 2015 Spin chains, Q-operators and the Bethe ansatz,
University of Birmingham, United Kingdom
- Feb. 2015 Q-operator construction for rational closed spin chains,
University of York, United Kingdom
- Nov. 2013 Bethe Ansatz for Yangian invariants: Towards Scattering Amplitudes,
Durham University, United Kingdom
- Jun. 2013 Yangian invariants, spin-chains and the algebraic Bethe ansatz,
IPhT, CEA-Saclay, France
- Mar. 2013 Yangian invariants, spin-chains and the algebraic Bethe ansatz,
Eötvös Loránd University, Hungary

POSTERS

- Aug. 2018 Q-operators for one-loop $\mathcal{N} = 4$ super Yang-Mills theory
Integrability in String and Gauge Theory,
Copenhagen, Denmark
- Apr. 2018 Q-operators for one-loop $\mathcal{N} = 4$ super Yang-Mills theory
Workshop on higher-point correlation functions and integrable AdS/CFT,
Dublin, Ireland
- Aug. 2012 From Q-Operators to Local Charges
Integrability in Gauge and String Theory,
Zürich, Switzerland