

WOJCIECH DYBALSKI

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EDUCATION

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|-----------------|--|
| 11/2004–03/2009 | PhD in Theoretical Physics, University of Göttingen. Advisor: D. Buchholz. |
| 09/2003–10/2004 | Graduate studies, University of Ottawa / NRC Ottawa. Advisor: P. Hawrylak. |
| 10/1998–06/2003 | MSc in Mathematical Physics, University of Warsaw. Advisor: J. Dereziński. |

PROFESSIONAL EXPERIENCE

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|-----------------|--|
| 10/2017–present | Technical University of Munich , Mathematics Department.
Group Leader within the Emmy Noether Programme of the German Research Foundation (DFG). |
| 04/2017–09/2017 | Ludwig-Maximilians-University of Munich , Mathematics Department.
Substitute Professor (W2). |
| 03/2014–03/2017 | Technical University of Munich , Mathematics Department.
Group Leader within the Emmy Noether Programme of the German Research Foundation. |
| 04/2013–02/2014 | ETH Zürich , Theoretical Physics Department.
Postdoctoral Fellow; Advisor: G.M. Graf. |
| 12/2012–03/2013 | University of Paris-Sud , Mathematics Department.
Fellow of the DFG; Advisor: C. Gérard. |
| 09/2012–12/2012 | Hausdorff Research Institute for Mathematics, Bonn .
Group Leader, Junior Trimester Program ‘Mathematical Physics’. |
| 03/2012–08/2012 | University of Paris-Sud , Mathematics Department.
Fellow of the DFG; Advisor: C. Gérard. |
| 09/2011–02/2012 | University of Aarhus , Mathematics Department.
Postdoctoral Fellow; Advisor: J.S. Møller. |
| 04/2009–08/2011 | Technical University of Munich , Mathematics Department.
Postdoctoral Fellow; Advisor: H. Spohn. |

GRANTS AND FELLOWSHIPS

03/2014–02/2019	Emmy Noether Grant of the DFG (1.000.000 EUR) Host institution: Technical University of Munich.
03/2014–02/2017	Rita Levi Montalcini Research Grant of the Italian Ministry of Education with tenure track option (declined for family reasons).
03/2012–03/2014	Research Fellowship of the DFG University of Paris-Sud / ETH Zürich.
09/2012–12/2012	Fellowship of the Hausdorff Research Institute for Mathematics Received jointly with Dr. K. Rejzner, Dr. J. Schlemmer and Dr. Y. Tanimoto.
03/2018–04/2018	Travel grant of the Center for French-Bavarian University Collaboration (BFHZ) Received jointly with Dr. M. Wrochna

CONFERENCE ORGANIZATION

03/2017	Workshop: ‘Macroscopic Limits of Quantum Systems’, Technical University of Munich / LMU. Main organizer.
05/2016	38th LQP Workshop: ‘Foundations and Constructive Aspects of QFT’, Institute for Advanced Study, Technical University of Munich. Main organizer.
10/2015	‘Quantum Field Theory: Infrared and Constructive Aspects’, Mathematics Department, Technical University of Munich. Main organizer.
09/2012	‘Algebraic Quantum Field Theory and Local Symmetries’, Hausdorff Research Institute for Mathematics, Bonn. Main organizer.

REFEREE SERVICES

Commun. Math. Phys.
J. Math. Phys.
Lett. Math. Phys.
Ann. Henri Poincaré
Phys. Rev. Lett.
Phys. Rev. A.
SIGMA

INVITED CONFERENCE TALKS (selection)

- 05/2017 **W. Dybalski.** *Non-relativistic QED in different gauges.* ‘Foundational and Structural Aspects of Gauge Theories’, MITP, Mainz.
- 12/2016 **W. Dybalski.** *Non-relativistic QED in different gauges.* ‘Infrared Problems in QED and Quantum Gravity’, Perimeter Institute, Waterloo.
- 11/2016 **W. Dybalski.** *Mathematical foundations of Quantum Field Theory.* ‘Autumn School on Mathematical Foundations of Physics’, LMU Munich, .
- 07/2016 **W. Dybalski** and C. Gérard. *Asymptotic observables and the problem of asymptotic completeness in QFT.* Workshop ‘Recent Mathematical Developments in Quantum Field Theory’, Oberwolfach.
- 02/2016 **W. Dybalski** and C. Gérard. *A criterion for asymptotic completeness in local relativistic QFT.* Spring Meeting of the German Physical Society, University of Hamburg.
- 07/2015 S. Alazzawi and **W. Dybalski.** *Compton scattering in the Buchholz-Roberts framework of relativistic QED.* Conference ‘Operator Algebras and Quantum Physics’, University of Sao Paulo.
- 09/2014 **W. Dybalski** and A. Pizzo. *Towards a consistent description of Coulomb scattering in QFT.* Conference ‘Mathematical Physics in Jena’, University of Jena.
- 03/2014 **W. Dybalski** and A. Pizzo. *Coulomb scattering in QFT. A status report.* Workshop ‘Many body quantum systems’, University of Warwick .
- 11/2013 **W. Dybalski** and A. Pizzo. *Towards a consistent description of Coulomb scattering in QFT.* Workshop ‘Mathematical Physics’, ETH Zürich.
- 06/2013 **W. Dybalski** and J.S. Møller. *Asymptotic completeness below the two-boson threshold in the massive translation invariant Nelson model.* Workshop ‘Spectral and scattering theories in QFT’, University of Bordeaux.
- 04/2013 **W. Dybalski** and C. Gérard. *Towards asymptotic completeness in local relativistic QFT.* Conference ‘Variational and spectral methods in QFT’, Henri Poincaré Institute, Paris.
- 09/2012 **W. Dybalski** and C. Gérard. *Towards asymptotic completeness in massive relativistic QFT.* Conference ‘Modern trends in algebraic QFT’, National Institute for Nuclear Physics, Frascati.
- 04/2012 **W. Dybalski** and J.S. Møller. *Towards asymptotic completeness in the translation invariant massive Nelson model.* ZiF Workshop ‘Mathematical aspects of quantum mechanics and quantum transport theory’, Bielefeld.
- 09/2011 **W. Dybalski.** *Inclusive cross-sections in relativistic and non-relativistic QED.* ESI Workshop ‘Rigorous quantum field theory in the LHC era’, Vienna.
- 09/2011 **W. Dybalski** and Y. Tanimoto. *Deformations of conformal field theories and the problem of asymptotic completeness.* Conference ‘Modern trends in algebraic QFT’, Pavia.
- 04/2011 **W. Dybalski** and Y. Tanimoto. *Deformations of conformal field theories and the problem of asymptotic completeness.* EU-NCG 4th Annual Meeting, University of Bucharest.

TEACHING

	Technical University of Munich.
10/2017–01/2018	Lecturer: ‘Quantum Field Theory’, Physics Master Course, 4 hours/week, (taught jointly with Prof. M. Beneke).
04/2016–07/2016	Lecturer: ‘Non-relativistic QED’, specialised course, 2 hours/week.
10/2014–02/2015	Lecturer: ‘Algebraic Quantum Field Theory’, specialized course, 4 hours/week.
	Ludwig-Maximilians-University of Munich.
04/2017–07/2017	Lecturer: ‘Mathematics II for Physicists’, basic course, 4 hours/week.
04/2017–07/2017	Lecturer: ‘Algebraic Quantum Field Theory’, specialized course, 4 hours/week.
	University of Göttingen.
10/2007–02/2008	Head Teaching Assistant: ‘Statistical Mechanics and Thermodynamics’.
04/2007–07/2007	Teaching Assistant: ‘Quantum Mechanics I’.
10/2006–02/2007	Teaching Assistant: ‘Classical Mechanics’.
04/2006–07/2006	Teaching Assistant: ‘Quantum Mechanics I’.
	University of Ottawa.
09/2003–04/2004	Teaching Assistant: ‘First Physics Lab’.
	University of Warsaw.
02/2002–06/2002	Teaching Assistant: ‘Theory of Linear Operators’.

SUPERVISION

	Technical University of Munich.
01/2017–present	Postdoc: Dr. Daniela Cadamuro. Tentative topic: ‘Infravacuum representations in non-relativistic QED’.
10/2014–09/2016	Postdoc: Dr. Sabina Alazzawi. Topic: ‘Compton scattering in the Buchholz-Roberts setting’.
04/2015–present	PhD student: Maximilian Duell. Topic: ‘N-body scattering in wedge-local QFT’.
06/2017–present	MSc student: Benedikt Wegener. Topic: ‘External current QED in different gauges’.
04/2013–12/2013	MSc student: Simon Bürger. Thesis: ‘LSZ reduction in QFT and lattice systems’.
04/2013–12/2013	MSc student: Maximilian Duell. Thesis: ‘Scattering in quantum field theories without mass gap’.
05/2017–09/2017	BSc student: Annika Steibel. Thesis: ‘Existence of solutions for a coupled system of Maxwell-Newton equations’.
	ETH Zürich.
10/2013–03/2014	MSc student: Jacob Steiner. Thesis: ‘Construction of detectors of charged particles in algebraic QFT’.