

ANDREAS WINDISCH

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NATIONALITY

Austria

EDUCATION

UNIVERSITY OF GRAZ, AUSTRIA

Doctor of Philosophy, Physics (2011-2014), awaiting defense in Aug. 2014

- Thesis: "Density Dependence Of Matter–Gluon Vertex Functions In Landau Gauge QCD"
- Supervisor: Prof. Reinhard Alkofer

Magister rerum naturalium, Physics (2011), with distinction
(Austrian equivalent to Master of Science, Physics)

- Thesis: "On The Infrared Behavior And Analytic Structure of Greens Functions"
- Supervisor: Prof. Reinhard Alkofer

REVIEWER/REFEREE

- Physical Review D
- Journal of Zhejiang University SCIENCE A, Springer

INVITATIONS TO CONFERENCES

1. EXCITED QCD 2014, Bjelasnica Mountain, Bosnia and Herzegovina
2. EXCITED QCD 2013, Bjelasnica Mountain, Bosnia and Herzegovina

RESEARCH STAY

- September 9 2013 – February 24 2014
Washington University in St. Louis, Prof. Mark Alford

VISITS/SEMINAR TALKS

1. University of Technology Darmstadt, Germany
March 12 2013
Talk: *Calculating the analytic structure of QFT Green's Functions on GPUs*
2. University of Giessen, Germany
March 13 2013
Talk: *Calculating the analytic structure of QFT Green's Functions on GPUs*

CONTRIBUTIONS TO SCHOOLS AND CONFERENCES (all talks are available on my website)

1. Austria-Croatia-Hungary Triangle Workshop 2013
Leitring, Austria, June 27 – June 28 2013
Talk: *On the Analytic Structure of QFT Green's Functions*
2. I3HP Workshop
Graz, Austria, May 21 – May 23 2013
Talk: *On crystalline color super conductors and deformed Fermi surfaces – an outlook*
3. Excited QCD 2013
Bjelasnica Mountain, Bosnia and Herzegovina, February 3 – February 9 2013
Invited Talk: *Calculating the analytic structure of QFT Green's Functions (on GPUs)*
4. 51st Winter School on Theoretical Physics
Schladming, Austria, February 23 – March 2 2013
EXTREME QCD IN AND OUT OF EQUILIBRIUM
Poster
5. Workshop on Strongly Interacting Field Theories
Jena, Germany, November 29 – December 1 2012
Poster
6. X^{th} Quark Confinement and the Hadron Spectrum
Garching, Germany, October 8 – October 12 2012
Talk: *On the Analytic Structure of Scalar Glueball Operators*
7. Monitoring Workshop of the Doctoral Schools Graz and Jena
Graz, Austria, October 3 – October 5 2012
Talk: *On the Analytic Structure of Scalar Glueball Operators*
8. 62nd Annual Meeting of the Austrian Physical Society
Graz, Austria, September 18 – September 21 2012
Talk: *What is (not) a Glueball?*
9. Lightcone 2012
Cracow, Poland, July 8 – July 13 2012
Talk: *The Quark-Gluon Vertex in Landau gauge QCD*
10. 5th Spring Workshop in Theoretical Particle Physics
Szombathely, Hungary, April 11 – April 13 2012
NON-PERTURBATIVE METHODS IN QUANTUM FIELD THEORY
Talk: *The F^2 correlator in Yang-Mills Theory*
11. 50th Winter School on Theoretical Physics
Schladming, Austria, February 25 – March 3 2012
PROSPECTS OF PARTICLE PHYSICS
Poster
12. Strong Interaction Days Jena 2011
Jena, Germany, September 28 – September 30 2011
Talk: *Glueball-Care through Field-Strength-Square*
13. Austria-Croatia-Hungary-Triangle Workshop
Fürstenfeld, Austria, May 4 – May 6 2011
STRONG INTERACTIONS IN QUANTUM FIELD THEORY
Talk: *The analytic structure of the F^2 correlator*
14. 49th Winter School on Theoretical Physics
Schladming, Austria, February 26 – March 5 2011
PHYSICS AT ALL SCALES: THE RENORMALIZATION GROUP
15. 5th Austrian-Croatian-Hungarian Meeting
Summer Workshop for Theoretical Physics
Rab, Croatia, August 30 – September 4 2010
QUANTUM FIELDS AND QUARK MATTER
Talk: *IR Behavior of Yang-Mills Theory in Maximally Abelian Gauge*

TEACHING ASSISTANT/TUTOR

UNIVERSITY OF GRAZ, AUSTRIA

1. Summer Term 2013

- (a) *Exercises on Electrodynamics*, 2 hrs/week
- (b) *Tutorial on Electrodynamics and Optics*, 1hr/week

2. Winter Term 2012

- (a) *Exercises on Linear Algebra*, 2 hrs/week
- (b) *Exercises on Classical Mechanics and Thermodynamics*, 2 hrs/week

3. Summer Term 2012

- (a) *Exercises on Vector Calculus*, 2 hrs/week

4. Winter Term 2011

- (a) *Exercises on Calculus*, 2 hrs/week
- (b) *Exercises on Classical Mechanics and Thermodynamics*, 2 hrs/week

5. Winter Term 2010

- (a) *Tutorial on Classical Mechanics*, 2 hrs/week

6. Summer Term 2010

- (a) *Tutorial on Quantum Mechanics*, 4 hrs/week

7. Winter Term 2009

- (a) *Tutorial on Classical Mechanics*, 2 hrs/week

LANGUAGE SKILLS

1. *German*: native
2. *English*: fluent

PROGRAMMING SKILLS

- LINUX , UNIX (IRIX)
- NVIDIA CUDA C, PGI CUDA Fortran (GPU computing)
- MPI
- FORTRAN90
- C/C++/C#/Borland C-Builder
- Sun Grid Engine
- Mathematica
- L^AT_EX
- Assembler (microcontroller)

ASSOCIATIONS

- **2012 – present**
Austrian Physical Society
- **2007 – present**
MENSA Austria (Member of MENSA International)

REFERENCES

1. **Prof. Reinhard Alkofer**
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2. **Prof. Mark G. Alford**
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3. **Prof. Christof Gattringer**
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