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### Academic degrees

**Doktor der Naturwissenschaften (Dr. rer. nat.)** 24 Sep 2018  
RWTH Aachen University, Aachen, Germany  
Thesis: Precision Top-Quark Physics with Leptonic Final States  
Referees: Prof. Dr. Michal Czakon and Prof. Dr. Robert Harlander

**Master of Science (M.Sc.)** 30 Sep 2015  
Georg-August University, Göttingen, Germany  
Thesis: Monte Carlo event generation with the (MC)<sup>3</sup> sampling algorithm  
Referee: Prof. Dr. Steffen Schumann

**Bachelor of Science (B.Sc.)** 27 Sep 2013  
Georg-August University, Göttingen, Germany  
Thesis: Systematic studies on the production of bottom-quarks in parton shower simulations  
Referee: Prof. Dr. Steffen Schumann

### Employment by academic and scientific institutions

**Staff scientist** (Adiunkt) Since Oct 2023  
Institute of Nuclear Physics Polish Academy of Sciences, Kraków, Poland  
Division of Theoretical Physics – Particle Physics

**Leverhulme Early Career Fellow** Oct 2021 – Sep 2023  
Cavendish Laboratory, Cambridge, UK  
Theoretical High Energy Physics

**Research Associate** (PostDoc) Oct 2018 – Sep 2021  
Cavendish Laboratory, Cambridge, UK  
Theoretical High Energy Physics

**Research Assistant** (Doctoral student) Oct 2015 – Sep 2018  
RWTH Aachen University, Aachen, Germany  
Institute for Theoretical Particle Physics and Cosmology  
Member of DFG Graduate School (GK)  
"Teilchen- und Astroteilchenphysik im Lichte von LHC"

## Research grants and funding awards

### Research projects where identified as PI

**Leverhulme Early Career Fellowship** 2021–2023  
The ‘NNLO revolution’: pushing the boundary of perturbative QCD.  
Awarded by the Leverhulme Trust and the Isaac Newton Trust. (168 kGBP)

### Research projects where identified as co-PI

**DiRAC RAC - computing resources** 2023–2024  
Precision LHC Phenomenology  
Total volume: 16 MCPU hours.

**DiRAC RAC - computing resources** 2024–2027  
Precision LHC Phenomenology  
Total volume: 53 MCPU hours.

### Not granted research projects

**NCN Sonata Bis 13 Call 2023**  
High Precision Predictions to Probe the Electroweak-Symmetry-Breaking Mechanism  
Total amount: 563,500 EUR

### Other awards

**Cavendish Laboratory staff reward** 2019  
(Note: Award of extra pay-grade jump due to extraordinary performance.)

**College Research Associate** 2021  
Emmanuel College, Cambridge

**COST ITC conference grant** 2024  
Participation at ICHEP 2024 conference, 1600 Euro

**Simons Foundation Grant** 2024  
Funding to participate in the Aspen Summer Programme 2024  
*Tightening the Gap Between Scattering Amplitudes and Events at the LHC at Higher Orders*, 4500 USD

## Teaching

### Teaching at IFJ PAN

- 2024: Quantum Field Theory, lecture for PhD students (4x90 mins + exercises).

### Teaching at Cambridge University

- 2024: Co-supervision of Louis Christou as Part III student at the Cavendish Laboratory.
- 2023: Supervision of Louis Christou in the summer-student programme of the Cavendish Laboratory.
- 2021-2023: Undergraduate supervision for Physics 1B A (wave-mechanics, quantum mechanics, statistical methods, solid-state physics) at Emmanuel College.
- 2019-2022: Graduate Lecture “HEP computing tools” at the Cavendish Laboratory (2x90 mins + tutorial per year).
- 2019-2022: PhD project co-supervision of Andrei Popescu.
- 2019: Part III project co-supervision of Weijun Li.

## Teaching at RWTH Aachen University

- Summer term 2016: exercise classes for "Relativistic quantum mechanics" (graduate course)
- Winter term 2016/17: Tutor for "Theoretische Physik 0" (undergraduate course, mathematical methods for theoretical physics)
- Summer term 2017: Tutor for "Theoretische Physik I: Mechanik" (undergraduate course, classical mechanics)
- Winter term 2017/18: Tutor for "Statistische Mechanik" (undergraduate course, statistical physics)

## Teaching at the University of Göttingen

- Winter term 2012/13: tutor for "Analytische Mechanik" (undergraduate course, classical mechanics)
- Summer term 2013: tutor for "Physik II" (undergraduate course, electrodynamics)
- Winter term 2013/14: tutor for "Mathematische Methoden der Physik II" (undergraduate course, mathematical methods for physics)
- Summer term 2014: tutor for "Quantenmechanik I" (undergraduate course, quantum mechanics)
- Winter term 2014/2015: tutor for "Rechenmethoden der Physik" (undergraduate course, mathematical methods for physics)
- Summer term 2015: tutor for "Analytische Mechanik" (undergraduate course, classical mechanics)

## Other

- Sep 2023: Maria Laach Herbstschule, Maria Laach, Germany, theory coordinator

## Publications

Below are various metrics of scientific output and citations as provided by the InSpire HEP database. The database considers pre-prints published on ArXiv and other online repositories citable works. Works marked "published" have undergone a rigorous peer-reviewing process.

Date: 27 November 2024

InSpire HEP Profile: <https://inspirehep.net/authors/1812055>

Published works (JCR-indexed journals)	24
Citable works	35
Total citations (excluding self-citations) for JCR works	996 (819)
Total citations (excluding self-citations) for citable works	1077 (862)
h-index (JCR works)	17 (16)
h-index (citable works)	18 (16)

## Journal Articles

1. **Quark mass effects in Higgs production**,  
M. Czakon, F. Eschment, M. Niggetiedt, **R. Poncelet**, T. Schellenberger,  
JHEP 10 (2024) 210
2. **Top-Bottom Interference Contribution to Fully-Inclusive Higgs Production**,  
M. Czakon, F. Eschment, M. Niggetiedt, **R. Poncelet**, T. Schellenberger,  
Phys.Rev.Lett. 132 (2024) 21, 211902
3. **Measurement of the production cross section for a W boson in association with a charm quark in proton-proton collisions at  $\sqrt{s} = 13$  TeV**,  
CMS Collaboration et al.,  
Eur.Phys.J.C 84 (2024), 27
4. **Isolated photon production in association with a jet pair through next-to-next-to-leading order in QCD**,  
S. Badger, M. Czakon, B. Hartanto, R. Moodie, T. Peraro, **R. Poncelet**, S. Zoia,  
JHEP 10 (2023) 071

5. **HighTEA: High energy Theory Event Analyser**,  
M. Czakon, Z. Kassabov, A. Mitov, **R. Poncelet**, A. Popescu,  
J.Phys.G 51 (2024) 11, 115002
6. **NNLO QCD corrections to event shapes at the LHC**,  
M. Alvarez, J. Cantero, M. Czakon, J. Llorente, A. Mitov, **R. Poncelet**,  
JHEP 03 (2023) 129
7. **A detailed investigation of W+c-jet at the LHC**,  
M. Czakon, A. Mitov, M. Pellen, **R. Poncelet**,  
JHEP 02 (2023) 241
8. **NNLO B-fragmentation fits and their application to  $t\bar{t}$  production and decay at the LHC**,  
M. Czakon, T. Generet, A. Mitov, **R. Poncelet**,  
JHEP03 (2023) 251
9. **NNLO QCD corrections to  $Wb\bar{b}$  production at the LHC**  
H. Bayu Hartanto, **R. Poncelet**, A. Popescu, S. Zoia,  
Phys.Rev.D 106 (2022) 7, 074016
10. **Infrared-safe flavoured anti- $k_T$  jets**,  
M. Czakon, A. Mitov, **R. Poncelet**,  
JHEP 04 (2023), 138
11. **Angular coefficients in W+j production at the LHC with high precision**  
M. Pellen, **R. Poncelet**, A. Popescu, T. Vitos,  
Eur.Phys.J.C 82 (2022) 8, 693
12. **Polarised W+j production at the LHC: a study at NNLO QCD accuracy**,  
M. Pellen, **R. Poncelet**, A. Popescu,  
JHEP 02 (2022) 160
13. **Next-to-Next-to-Leading Order Study of Three-Jet Production at the LHC**,  
M. Czakon, A. Mitov, **R. Poncelet**,  
Phys.Rev.Lett. 127 (2021) 15, 152001
14. **NNLO QCD corrections to diphoton production with an additional jet at the LHC**,  
H. Chawdhry, M. Czakon, A. Mitov, **R. Poncelet**,  
JHEP 09 (2021) 093
15. **Two-loop leading-colour QCD helicity amplitudes for two-photon plus jet production at the LHC**,  
H. Chawdhry, M. Czakon, A. Mitov, **R. Poncelet**,  
JHEP 07 (2021) 164
16. **NNLO QCD study of polarised  $W^+W^-$  production at the LHC**,  
**R. Poncelet**, A. Popescu,  
JHEP 07 (2021) 023
17. **B-hadron hadro-production in NNLO QCD: application to LHC  $t\bar{t}$  events with leptonic decays**,  
M. Czakon, T. Generet, A. Mitov, **R. Poncelet**,  
JHEP 10 (2021) 216
18. **Two-loop leading-color helicity amplitudes for three-photon production at the LHC**,  
H. Chawdhry, M. Czakon, A. Mitov, **R. Poncelet**,  
JHEP 06 (2021) 150
19. **NNLO QCD predictions for W+c-jet production at the LHC**,  
M. Czakon, A. Mitov, M. Pellen, **R. Poncelet**,  
JHEP 06 (2021) 100
20. **NNLO QCD corrections to leptonic observables in top-quark pair production and decay**,  
M. Czakon, A. Mitov, **R. Poncelet**,  
JHEP 05 (2021) 212
21. **NNLO QCD corrections to three-photon production at the LHC**,  
H. Chawdhry, M. Czakon, A. Mitov, **R. Poncelet**,  
JHEP 02 (2020) 057
22. **Single-jet inclusive rates with exact color at  $\mathcal{O}(\alpha_s^4)$** ,

- M. Czakon, A. van Hameren, A. Mitov, **R. Poncelet**,  
JHEP 10 (2019) 262
23. **Higher order corrections to spin correlations in top quark pair production at the LHC**,  
A. Behring, M. Czakon, A. Mitov, A. Papanastasiou, **R. Poncelet**,  
Phys. Rev. Lett. 123 (2019) no.8, 082001
24. **Polarized double-virtual amplitudes for heavy-quark pair production**,  
L. Chen, M. Czakon, **R. Poncelet**,  
JHEP 03 (2018) 085

### Proceedings, community efforts and other publications

1. **Open B production at hadron colliders in NNLO+NNLL QCD**,  
M. Czakon, T. Generet, A. Mitov, **R. Poncelet**,  
e-Print: 2411.09684 [hep-ph]
2. **Les Houches 2023: Physics at TeV Colliders: Standard Model Working Group Report**,  
J. Andersen, B. Assi, K. Asteriadis, P. Azzurri, G. Barone et al.,  
e-Print: 2406.00708 [hep-ph]
3. **High-precision prediction for multi-scale processes at the LHC**,  
R. Poncelet,  
e-Print: 2405.01330 [hep-ph]
4. **Precision comparisons between theory and data in  $t\bar{t}$ -production at the LHC**,  
**R. Poncelet**,  
e-Print: 2212.06019 [hep-ph]
5. **Report of the Topical Group on Top quark physics and heavy flavor production for Snowmass 2021**,  
K. Agashe et al. ,  
e-Print: 2209.11267 [hep-ph]
6. **Flavour anti- $k_T$  algorithm applied to  $Wb\bar{b}$  production at the LHC**,  
B. Hartanto, **R. Poncelet**, A. Popescu, S. Zoia,  
e-Print: 2209.03280 [hep-ph]
7. **Snowmass White Paper: prospects for the measurement of top-quark couplings**,  
G. Durieux, A. Gutiérrez Camacho, L. Mantani, V. Miralles, M. Miralles López, M. Llácer Moreno,  
**R. Poncelet**, E. Vryonidou, M. Vos,  
e-Print: 2205.02140 [hep-ph]
8. **NNLO QCD study of polarised  $W^+W^-$  production at the LHC**,  
A. Popescu, **R. Poncelet**,  
PoS LHCP2021 (2021), 211
9.  **$W$ +c-jet production at the LHC with NNLO QCD accuracy**,  
M. Czakon, A. Mitov, M. Pellen, **R. Poncelet**,  
e-Print: 2110.05104 [hep-ph]
10. **NNLO QCD Calculations with the Sector-improved Residue Subtraction Scheme**,  
**R. Poncelet**,  
Acta Phys. Polon. B 51 (2020), 1503
11. **Sector-improved residue subtraction: Improvements and Applications**,  
A. Behring, M. Czakon, **R. Poncelet**,  
PoS LL2018 (2018), 024
12. **Precision Top-Quark physics with leptonic final states**,  
**R. Poncelet**,  
RWTH Aachen publications (2018)

## Scientific, organizational, and popularization activity

### Service and organization work

#### Conference and workshop organization:

- 2024/7: ICHEP, convener of "Top+EW" session.
- 2024/5: SM@LHC, convener of "Top-quark" session.
- 2023/11: Local organization committee and social chair of "Polish Particle and Nuclear Physics Summit (2PiNTS)" workshop at IFJ PAN Kraków
- 2023/9: QCD@LHC23, convener of "Processes with heavy quarks" session.
- 2023/3: DIS2023, convener of WG4 "QCD and heavy flavor".

#### Seminar organization:

- Since 2024: Co-organizer of COMETA Colloquium series.
- 2020–2023: Organizer of the DAMPT-Cavendish Joint Seminar Series.

#### Other:

- Since 2024: Polish representative in COMETA Management Committee (COST action <https://www.cost.eu/actions/CA22130/>)

#### Journal refereeing:

- Since 2021: EPJC
- Since 2021: JHEP
- Since 2023: SciPost

### Scientific outreach activities

- Popular science article: "The Higgs does not seem to contain any factors from new physics", Eurekalert, 11 Jul 2024, <https://www.eurekalert.org/news-releases/1051057>
- 2024/5: Dzień Otwarty IFJ PAN dla studentów 2024, Kraków.  
Poster: "Normalising Flows for Phasespace Integration".
- 2023/7: Public Engagement workshop, The Science Museum, London.  
Introduction To Public Engagement, a course organized by DiRAC.
- 2023/5: Isaac Newton Trust Fellows' Event, Cambridge University, Cambridge.  
Public talk to the general public: "Exploring Quantum Effects at the Terascale".
- 2021/3: Engaged Researcher Online, Cambridge University, Cambridge.  
Introduction To Public Engagement, course at the University of Cambridge.
- 2018/6: Science Fair, Wirsberg Gymnasium, Würzburg.  
Scientific contact for student feedback and advice on project design and result analysis.

### Other activity

- 2024/9: Aspen Summer Programme, Tightening the Gap Between Scattering Amplitudes and Events at the LHC at Higher Orders.
- 2024/8: CERN workshop: Frontiers in precision phenomenology: Resummation, Amplitudes, and Subtraction.
- 2023/6: PhysTev 23, workshop in Les Houches.
- 2022/8: MIAPbP workshop: Gearing up for high-precision LHC physics.
- 2022/6: DiRAC workshop: Accelerated Computing with Cuda.
- 2021/2: DiRAC workshop: DiRAC AI-athon.
- 2016/7: CTEQ - MCnet School at DESY.

- 2015/4: Helmholtz Alliance Monte-Carlo School at DESY.
- 2013/7: Summer student at DESY, supervisor: Simon Plätzer.
- 2013/2: Helmholtz Alliance Introduction to the Terascale at DESY.

## Academic presentations

### Invited colloquia at university and laboratories

1. **Precision QCD phenomenology for multi-scale processes at the Large Hadron Collider**, Kraków, IFJ PAN, 2024.04.25
2. **Jet identification and flavoured jet algorithms**, Aachen, RTG colloquium, 2023.04.18

### Presentations at national and international conferences

1. **Precision calculations for heavy-quark production**, Freiburg, QCD@LHC, 2024.10.09
2. **Precision Predictions for Polarized Electroweak Bosons**, Prague, ICHEP, 2024.10.09
3. **Polarized predictions in diboson final states**, Rome, SM@LHC, 2024.05.09
4. **Precise polarisation predictions**, Izmir, COMETA 1st General Meeting, 2024.02.28
5. **High precision prediction for multi-scale processes at the LHC**, Kraków, XXX Epiphany Conference, 2024.01.08
6. **N(N)LO 3-jet predictions**, FermiLab (remote), SM@LHC, 2023.07.10
7. **NNLO QCD corrections to event-shapes at the LHC**, Crieff, RadCor, 2023.05.30
8. **Precision phenomenology with multi-jet final states at the LHC**, MSU, DIS, 2023.03.30
9. **NNLO QCD corrections to W+2 b-jet production**, Paris, QCD@LHC, 2022.11.28
10. **Jet calculations with the Sector-improved residue subtraction scheme**, Newcastle, HP2, 2022.09.21
11. **Precision comparisons between theory and data in ttbar production at the LHC**, Durham, TOP, 2022.09.05
12. **Polarization modelling in MBI processes / Precision Predictions for Polarized Electroweak Bosons**, Shanghai (remote), MBI, 2022.08.22
13. **Progress on precision QCD calculations**, Taipei (remote), LHCP, 2022.05.19
14. **Status of (N)NNLO calculations**, CERN, SM@LHC, 2022.04.13
15. **NNLO QCD corrections for three-jet production**, La Thuile, Moriond, 2022.03.24
16. **NNLO QCD predictions for 2 to 3 processes**, Tallahassee (remote), RadCor+LoopFest, 2021.05.21
17. **NNLO QCD corrections to top-quark production and decay**, Durham (remote), TOP, 2020.09.14
18. **NNLO QCD calculations with the Sector-improved residue subtraction scheme**,

Kraków, Epiphany Conference, 2020.01.10

19. **Towards  $2 \rightarrow 3$  NNLO QCD calculations**,  
Avignon, RadCor, 2019.09.10
20. **State-of-the-art precision calculations for top quark production and decay**,  
Puebla, LHCP, 2019.05.16
21. **Top production at the LHC**,  
Torino, DIS, 2019.04.09
22. **NNLO QCD top quark pair production and decay**,  
Bad Neuenahr, TOP, 2018.09.17
23. **NNLO predictions for top-quark pair production with leptonic final states**,  
MSU, LoopFest, 2018.07.19
24. **Towards top-quark pair production and decay at NNLO QCD**,  
St. Gilgen, RadCor, 2017.09.27
25. **Improvements of the sector-improved residue subtraction scheme**,  
Debrecen, QCD@LHC, 2017.08.29
26. **Polarised amplitudes for top quark pair production at NNLO**,  
Münster, DPG, 2017.03.27
27. **NLO event generation with the (MC)<sup>3</sup> sampling algorithm**,  
Hamburg, DPG, 2016.03.01

### Invited seminars

1. **Precision phenomenology with heavy-flavour jets at the LHC**,  
Münster, University of Münster, 2024.07.01
2. **Precision phenomenology with the sector-improved residue subtraction scheme**,  
Dresden, Institute of Nuclear and Particle Physics seminar, 2024.06.27
3. **Techniques and phenomenology of NNLO QCD calculations for LHC processes**,  
Hamburg, DESY Theory seminar, 2024.04.15
4. **Precision phenomenology with heavy-flavour jets at the LHC**,  
Warsaw, NCBJ, 2024.04.09
5. **Techniques and phenomenology of cutting-edge higher-order calculations for LHC processes**,  
Göttingen, Georg-August University, 2023.12.18
6. **Techniques and phenomenology of cutting-edge higher-order calculations for LHC processes**,  
Kraków, AGH, 2023.12.15
7. **Precision phenomenology with heavy-flavour jets at the LHC**,  
Kraków, Jagiellonian University, 2023.12.05
8. **High-precision calculations for W+charm at the LHC**,  
DESY Zeuthen, 2023.11.02
9. **Precision phenomenology with heavy-flavour jets at the LHC**,  
CERN, QCD seminar, 2023.10.23
10. **Precision Predictions for Polarized Electroweak Bosons**,  
Kraków, IFJ theory division seminar, 2023.10.12
11. **Precision phenomenology with multi-jet final states at the LHC**,  
Milano Bicocca, 2023.09.22
12. **Precision phenomenology with multi-jet final states at the LHC**,  
Torino, INFN, 2023.03.22
13. **Precision phenomenology with multi-jet final states at the LHC**,  
Kraków, IFJ particle physics theory department seminar, 2023.03.20
14. **Precision Predictions for Polarized Electroweak Bosons**,  
Würzburg, 2023.01.19



15. **NNLO QCD corrections to W+2 b-jet production**,  
Zürich, UZH, 2022.09.27
16. **Tasty jets at the LHC**,  
Munich, MPI, 2022.07.01
17. **Jets at the LHC: a fixed order perspective**,  
Freiburg, 2022.05.17
18. **HighTEA**,  
Cambridge, Cavendish-DAMPT, 2022.02.04
19. **Jets at the LHC: a fixed order perspective**,  
University of Sussex, 2021.10.25
20. **NNLO QCD predictions for 2 to 3 processes**,  
CERN (remote), QCD-seminar, 2021.06.18
21. **Three photon production at the LHC: Amplitudes and Phenomenology**,  
Milano Bicocca, 2020.02.19
22. **Three photon production at the LHC: Amplitudes and Phenomenology**,  
Oxford, 2020.02.13
23. **Spin correlation in top-quark pair production in the 'precision'-era of the LHC**,  
Dortmund, 2019.07.01
24. **Fixed-order predictions for top-quark pair production and decay at the LHC**,  
Cambridge, Cavendish-DAMPT, 2019.05.16
25. **Improvements of the sector-improved residue subtraction scheme**,  
Zürich, ETH, 2018.03.20
26. **NNLO QCD calculations with the sector-improved residue subtraction scheme**,  
Würzburg, 2017.11.30
27. **Improvements of the sector-improved residue subtraction scheme**,  
Freiburg, 2017.11.21

### Presentations at workshops and working group meetings

1. **High precision prediction for multi-scale processes at the LHC**,  
Pohang, APCTP Workshop on Precision Calculation and Collider Phenomenology, 2024.11.05
2. **Polarisation computations in the STRIPPER framework**  
Toulouse (remote), COMETA workshop on vector-boson polarisation, 2024.09.23
3. **Fixed Order as a proxy to realistic LHC observables?**  
Aspen Center for Physics, Tightening the Gap Between Scattering Amplitudes and Events at the LHC at Higher Orders, 2024.09.04
4. **STRIPPER subtraction scheme**,  
CERN, Frontiers in precision phenomenology: Resummation, Amplitudes, and Subtraction, 2024.08.28
5. **CMP**,  
online, LHCb flavoured jets public meeting, 2024.05.20
6. **VLVL: Precision Predictions for Polarized Electroweak Bosons**,  
COMETA online meeting WG1, 2024.01.17
7. **Fixed-order calculations with massive quarks**,  
Edinburgh, Heavy Flavour At High PTs, 2023.11.30
8. **High precision prediction for multi-scale processes at the LHC**,  
Kraków, 2PiNTS, 2023.11.22
9. **HighTEA**,  
Les Houches, 2023.06.16
10. **Flavour anti-kT**,  
Les Houches, 2023.06.14
11. **Isolated photon production in association with a jet pair through next-to-next-to-leading order in QCD**,  
ATLAS PDF Forum (remote), 2023.05.26

12. **HighTEA**,  
CMS TOP WG (remote), 2022.12.13
13. **Combined  $t\bar{t}$  and  $tW$  analyses**,  
ATLAS TOP WG (remote), 2022.11.17
14. **Infrared-safe flavoured anti- $k_T$  jets**,  
ATLAS PDF Forum (remote), 2022.05.13
15. **NNLO QCD predictions for jet observables**,  
CMS hadronic workshop, 2022.02.24
16. **NNLO predictions for three-jet cross sections at the LHC**,  
LHC EW WG general meeting, 2022.02.15
17. **NNLO predictions for three-jet cross sections at the LHC**,  
LHC EW WG, 2021.11.29
18. **Precision predictions for jet rates**,  
CERN (remote), Jets And Their Substructure, 2021.05.31
19. **Predictions for  $t\bar{t}$  differential cross sections**,  
CMS TOP WG, 2019.11.20
20. **NNLO predictions for  $t\bar{t}$  spin correlations**,  
CERN TOP WG, 2018.11.21
21.  **$t\bar{t}$  production and decay at NNLO QCD**,  
Bad Honnef, GK report week, 2016.08.30

### Other presentations

1. **Spin correlation in top-quark pair production**,  
CERN, collider cross-talk, 2022.07.21
2. **Precision Top-Quark Physics with Leptonic Final States**,  
Aachen, PhD defense, 2018.09.24