Mathieu Pellen

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Date and place of birth: 4th of June 1987 in Brest, France Nationality, Gender, Status: French, Male, Married with one child

09/05 - 09/08

Languages:	French (native), English (fluent), German (fluent)
Research Positions	
10/20 - present	Senior Postdoctoral researcher / Habilitation track (of German universities) Physics Institute, University of Freiburg (Germany)
10/18 - 09/20	Research associate Cavendish laboratory, University of Cambridge (United Kingdom)
10/15 - 09/18	Postdoctoral researcher Institute for Theoretical Physics und Astrophysics, University of Würzburg (Germany)
10/11 - 09/15	PhD student Precision Calculations for Physics Beyond the Standard Model, Supervisor: Michael Krämer - RWTH Aachen (Germany)
03 - 08/11	Master student Energy and momentum conservation rules for the intersection of branes Supervisor: David Wands - ICG, University of Portsmouth (United Kingdom)
06 - 08/10	Bachelor student Modelling proton-proton collisions at the LHC Supervisor: Arthur Moraes - University of Glasgow (United Kingdom)
07 - 08/09	Summer student Calculations for Coupling of a SQUID with a coplanar resonant line Supervisor: Olivier Buisson - Institut Néel (CNRS), Grenoble (France)
Education	
10/11 - 06/15	PhD in natural science Institute for Theoretical Particle Physics and Cosmology, RWTH Aachen University (Germany)
09/10 - 09/11	International Master in Subatomic and Astroparticle Physics Joseph Fourier University / LPSC (CNRS), Grenoble (France)
09/08 - 09/11	Master in Physics and Nanoscience Grenoble Institute of Technology (France)

Lycée de Kérichen, Brest (France)

Classe préparatoire aux Grandes écoles (equivalent to first and second year of university)

Articles:

- [1] G. Agliardi, M. Grossi, M. Pellen and E. Prati, Quantum integration of elementary particle processes, Submitted to PLB (1, 2022) [2201.01547].
- [2] M. Pellen, R. Poncelet and A. Popescu, *Polarised W+j production at the LHC: a study at NNLO QCD accuracy*, *JHEP* **02** (2022) 160 [2109.14336].
- [3] A. Denner, R. Franken, M. Pellen and T. Schmidt, *Full NLO predictions for vector-boson scattering into Z bosons and its irreducible background at the LHC, JHEP* **10** (2021) 228 [2107.10688].
- [4] R. Covarelli, M. Pellen and M. Zaro, Vector-Boson scattering at the LHC: Unraveling the electroweak sector, Int. J. Mod. Phys. A 36 (2021), no. 16 2130009 [2102.10991].
- [5] M. Czakon, A. Mitov, M. Pellen and R. Poncelet, *NNLO QCD predictions for W+c-jet production at the LHC*, *JHEP* **06** (2021) 100 [2011.01011].
- [6] A. Denner, R. Franken, M. Pellen and T. Schmidt, *NLO QCD and EW corrections to vector-boson scattering into ZZ at the LHC*, *JHEP* **11** (2020) 110 [2009.00411].
- [7] A. Denner, J.-N. Lang and M. Pellen, Full NLO QCD corrections to off-shell ttbb production, Phys. Rev. D 104 (2021), no. 5 056018 [2008.00918].
- [8] F. A. Dreyer, A. Karlberg, J.-N. Lang and M. Pellen, *Precise predictions for double-Higgs production via vector-boson fusion*, *Eur. Phys. J.* **C80** (2020), no. 11 1037 [2005.13341].
- [9] S. Bräuer, A. Denner, M. Pellen, M. Schönherr and S. Schumann, Fixed-order and merged parton-shower predictions for WW and WWj production at the LHC including NLO QCD and EW corrections, JHEP 10 (2020) 159 [2005.12128].
- [10] M. Pellen, Exploring the scattering of vector bosons at LHCb, Phys. Rev. **D101** (2020), no. 1 013002 [1908.06805].
- [11] A. Denner, S. Dittmaier, M. Pellen and C. Schwan, Low-virtuality photon transitions $\gamma^* \to f\bar{f}$ and the photon-to-jet conversion function, Phys. Lett. B **798** (2019) 134951 [1907.02366].
- [12] M. Chiesa, A. Denner, J.-N. Lang and M. Pellen, *An event generator for same-sign W-boson scattering at the LHC including electroweak corrections, Eur. Phys. J.* **C79** (2019), no. 9 788 [1906.01863].
- [13] A. Denner, S. Dittmaier, P. Maierhöfer, M. Pellen and C. Schwan, *QCD and electroweak corrections to WZ scattering at the LHC*, *JHEP* **06** (2019) 067 [1904.00882].
- [14] L. Di Menza, J.-P. Nicolas and M. Pellen, A new type of charged black hole bomb, Gen. Rel. Grav. 52 (2020), no. 1 8 [1903.02941].
- [15] A. Ballestrero et. al., Precise predictions for same-sign W-boson scattering at the LHC, Eur. Phys. J. C78 (2018), no. 8 671 [1803.07943].
- [16] A. Denner and M. Pellen, *Off-shell production of top-antitop pairs in the lepton+jets channel at NLO QCD*, *JHEP* **02** (2018) 013 [1711.10359].
- [17] B. Biedermann, A. Denner and M. Pellen, *Complete NLO corrections to W*⁺*W*⁺ scattering and its irreducible background at the LHC, JHEP **10** (2017) 124 [1708.00268].
- [18] B. Biedermann, S. Bräuer, A. Denner, M. Pellen, S. Schumann and J. M. Thompson, *Automation of NLO QCD and EW corrections with Sherpa and Recola, Eur. Phys. J.* **C77** (2017) 492 [1704.05783].
- [19] A. Denner, J.-N. Lang, M. Pellen and S. Uccirati, *Higgs production in association with off-shell top-antitop pairs at NLO EW and QCD at the LHC, JHEP* **02** (2017) 053 [1612.07138].
- [20] L. Ali Cavasonza, H. Gast, M. Krämer, M. Pellen and S. Schael, *Constraints on leptophilic dark matter from the AMS-02 experiment*, *Astrophys. J.* **839** (2017), no. 1 36 [1612.06634].
- [21] B. Biedermann, A. Denner and M. Pellen, Large electroweak corrections to vector-boson scattering at the Large Hadron Collider, Phys. Rev. Lett. 118 (2017), no. 26 261801 [1611.02951].

- [22] A. Denner and M. Pellen, *NLO electroweak corrections to off-shell top-antitop production with leptonic decays at the LHC*, *JHEP* **08** (2016) 155 [1607.05571].
- [23] C. Arina, M. Backović, E. Conte, B. Fuks, J. Guo, J. Heisig, B. Hespel, M. Krämer, F. Maltoni, A. Martini, K. Mawatari, M. Pellen and E. Vryonidou, A comprehensive approach to dark matter studies: exploration of simplified top-philic models, JHEP 11 (2016) 111 [1605.09242].
- [24] J. Heisig, M. Krämer, M. Pellen and C. Wiebusch, *Constraints on Majorana Dark Matter from the LHC and IceCube*, *Phys. Rev.* **D93** (2016), no. 5 055029 [1509.07867].
- [25] M. Backović, M. Krämer, F. Maltoni, A. Martini, K. Mawatari and M. Pellen, *Higher-order QCD predictions* for dark matter production at the LHC in simplified models with s-channel mediators, Eur. Phys. J. C75 (2015), no. 10 482 [1508.05327].
- [26] L. Ali Cavasonza, M. Krämer and M. Pellen, *Electroweak fragmentation functions for dark matter annihilation*, *JCAP* **1502** (2015), no. 02 021 [1409.8226].
- [27] R. Gavin, C. Hangst, M. Krämer, M. Mühlleitner, M. Pellen, E. Popenda and M. Spira, *Squark Production and Decay matched with Parton Showers at NLO, Eur. Phys. J.* **C75** (2015), no. 1 29 [1407.7971].
- [28] M. Pellen, Conservation laws for colliding branes with induced gravity, Astrophys. Space Sci. **357** (2015), no. 1 24 [1309.6750].
- [29] R. Gavin, C. Hangst, M. Krämer, M. Mühlleitner, M. Pellen, E. Popenda and M. Spira, *Matching Squark Pair Production at NLO with Parton Showers*, *JHEP* **10** (2013) 187 [1305.4061].

Proceedings and Reports:

- [1] J. M. Campbell, M. Diefenthaler, T. J. Hobbs, S. Höche, J. Isaacson, F. Kling, S. Mrenna, J. Reuter, S. Alioli and J. R. Andersen, et al. Event Generators for High-Energy Physics Experiments, [arXiv:2203.11110 [hep-ph]].
- [2] M. Czakon, A. Mitov, M. Pellen and R. Poncelet, *W+c-jet production at the LHC with NNLO QCD accuracy*, 15th International Symposium on Radiative Corrections and LoopFest XIX. [arXiv:2110.05104 [hep-ph]].
- [3] D. Buarque, et al. Vector Boson Scattering Processes: Status and Prospects, [arXiv:2106.01393 [hep-ph]].
- [4] M. Pellen, *Vector bosons and jets at the LHC*, Eighth Annual Conference on Large Hadron Collider Physics-LHCP2020, 25-30 May. [arXiv:2009.12236 [hep-ph]].
- [5] J. Baglio et al., VBSCan Mid-Term Scientific Meeting, [arXiv:2004.00726 [hep-ph]].
- [6] S. Amoroso et al., Les Houches 2019: Physics at TeV Colliders: Standard Model Working Group Report, [arXiv:2003.01700 [hep-ph]].
- [7] A. Denner, J.-N. Lang, M. Pellen and S. Uccirati, *NLO QCD* + electroweak predictions for off-shell ttH production at the LHC, [arXiv:1912.08493 [hep-ph]].
- [8] R. Bellan et al., VBSCan Thessaloniki 2018 Workshop Summary, [arXiv:1906.11332 [hep-ph]].
- [9] P. Azzi et al., Standard Model Physics at the HL-LHC and HE-LHC, [arXiv:1902.04070 [hep-ph]].
- [10] J. R. Andersen *et al.*, Les Houches 2017: Physics at TeV Colliders Standard Model Working Group Report, [arXiv:1803.07977 [hep-ph]].
- [11] C. F. Anders *et al.*, *Vector boson scattering: Recent experimental and theory developments*, Rev. Phys. **3**, 44 (2018) [arXiv:1801.04203 [hep-ph]].
- [12] A. Denner, J.-N. Lang, M. Pellen and S. Uccirati, *NLO QCD and EW corrections to processes involving off-shell top quarks*, PoS RADCOR 2017, 060 (2017) [arXiv:1711.08910 [hep-ph]].
- [13] B. Biedermann, A. Denner and M. Pellen, *Electroweak corrections to vector-boson scattering*, PoS RADCOR 2017, 072 (2017) [arXiv:1711.02932 [hep-ph]].
- [14] M. Pellen, *Automated computations of electroweak corrections using Sherpa+Recola*, 29th Rencontres de Blois on Particle Physics and Cosmology Blois, France, May 28-June 2, 2017 [arXiv:1709.05791 [hep-ph]].
- [15] B. Biedermann, A. Denner and M. Pellen, *NLO electroweak corrections to vector-boson scattering at the LHC*, PoS DIS 2017, 164 (2018) [arXiv:1708.00646 [hep-ph]].

- [16] L. Ali Cavasonza, M. Krämer and M. Pellen, Exploring Dark Matter with AMS-02 through Electroweak Corrections, Proceedings, 11th Patras Workshop on Axions, WIMPs and WISPs (Axion-WIMP 2015): Zaragoza, Spain, June 22-26, 2015
- [17] J. Heisig and M. Pellen, *Dark Matter at the LHC and IceCube a Simplified Model Interpretation*, Proceedings, 11th Patras Workshop on Axions, WIMPs and WISPs (Axion-WIMP 2015): Zaragoza, Spain, June 22-26, 2015 [arXiv:1509.08640 [hep-ph]].
- [18] R. Gavin, C. Hangst, M. Krämer, M. Mühlleitner, M. Pellen, E. Popenda and M. Spira, *Squark Production and Decay at NLO matched with Parton Showers*, PoS DIS **2014**, 125 (2014).
- [19] L. Ali Cavasonza, M. Krämer and M. Pellen, Electroweak fragmentation functions for dark matter annihilation, Proceedings, 10th Patras Workshop on Axions, WIMPs and WISPs (AXION-WIMP 2014): Geneva, Switzerland, June 29-July 4, 2014

Teaching - Supervision

- 2021-22 **Senior assistant** *Mathematics II* (in German) University of Freiburg, Germany
 - ightarrow Co-organiser of tutorials and designing of exercise sheets/exam
 - 2021 **Senior assistant** *Classical Mechanics* (in German) University of Freiburg, Germany → Co-organiser of tutorials and designing of exercise sheets/exam
- 2020-21 **Senior assistant** *Classical Electrodynamics* (in German) University of Freiburg, Germany → Co-organiser of tutorials and designing of exercise sheets/exam
- 04/2019 **Lecturer** Standard model, higher orders, and VBF/VBS University of Pavia, Italy \rightarrow PhD programme (10 hours)
- 04/2018 Lecturer Introduction to electroweak corrections
 - → First EWSB spring school (3 hours) Maratea, Italy
 - 2018 **Teaching assistant** Classical Electrodynamics (in German) University of Würzburg, Germany → Exercise classes and designing of exercise sheets
- 2017-18 **Teaching assistant** *Advanced Quantum Field Theory* University of Würzburg, Germany → Exercise classes and designing of exercise sheets
 - 2015 **Teaching assistant** Classical Mechanics (in German) RWTH Aachen, Germany
 - → Exercise classes and corrections of students' sheets
 Teaching assistant Quantum Mechanics RWTH Aachen, Germany
 - → Exercise classes and corrections of students' sheets
- 2012-13 **Teaching assistant** Classical Electrodynamics RWTH Aachen, Germany
 - \rightarrow Exercise classes and corrections of students' sheets
- 2021-22 **Co-supervision** of a Master student University of Freiburg, Germany → Higher-order corrections for tau decays
 - 2021 Co-supervision of a Bachelor student University of Freiburg, Germany
 - ightarrow Anomalous electromagnetic moments of au leptons
- 2019-20 **Co-supervision** of a PhD student University of Cambridge, United Kingdom
 - → Higher-order corrections in QCD
- 2014-15 **Supervision** of two Master students RWTH Aachen, Germany
 - → Indirect Dark-Matter detection
 - 2013 Supervision of two Bachelor students for their thesis RWTH Aachen, Germany
 - → Supersymmetric quantum mechanics
 - ightarrow Two Higgs doublet model
 - 2012 **Supervision** of two Master students for literature seminar RWTH Aachen, Germany
 - → Extra dimension models

2021-nov	W Convener of the VBF sub-group in LHC Higgs Working Group
2017-202	1 Working-group leader of the VBSCan COST network
202	2 Convener of the EW session at LHCP 2022 - Taipei (Taiwan)
202	1 Session Chair, MBI conference 2021, Milan (Italy)
202	Group coordinator, Fall school for HEP: Maria Laach, Bad Honnef (Germany)
202	Convener, Les Houches workshop 2021: Physics at TeV Colliders, Les Houches (France)
202	1 Session Chair, DPG Meeting - QCD and electroweak interactions, Dortmund (Germany)
202	Organiser, Workshop on Effective Field Theory in Polarised VBS, online
202	O Programme organiser and Chair, VBSCan meeting, Helsinki (Finland)
201	9 Programme organiser, VBSCan meeting, Istanbul (Turkey)
201	9 Convener of the EW session at LHCP 2019 - Puebla (Mexico)
2017-201	Programme organiser and Chair, VBSCan meetings: Split (Croatia) [2017], CERN, The saloniki (Greece) [2018], Geneva (Switzerland) [2018], Ljubljana (Slovenia) [2019]
202	0 Editor, VBSCan Mid-Term Scientific Meeting: proceedings [2004.00726]
201	9 Editor, VBSCan Thessaloniki 2018 Workshop: proceedings [1906.11332]
201	8 Editor, Vector-boson scattering: Recent experimental and theory developments [1801.0420]
201	
2017-nov	w Referee for CPC, EPJC, JHEP, and PRD
2021-nov	Representative of postdoctoral researchers in graduate school (University of Freiburg)
201	9 Member of Scientific Committee of international workshop BSM models in Vector-Bose Scattering processes – Lisbon (Portugal)
2018-2	
2017-1	
2021-2	Organiser of bi-weekly graduate-school seminar (University of Freiburg)
2020-nov	Organiser of bi-weekly student research seminar (University of Freiburg)
2018-2	
2015-1	• • • • • • • • • • • • • • • • • • • •
2020-nov	· · · · · · · · · · · · · · · · · · ·
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01/2022	Application to ERC Starting Grant 2022 call (ERC-2022-StG). Decison pending.
06/2020	Step 2 of the ERC Starting Grant 2020 call (ERC-2020-StG). Not funded.
11/2019	Travel grant from COST EU agency - 800 Euros.
	One-week visit at University of Würzburg, Germany.
03/2017	Travel grant from COST EU agency - 1000 Euros.
•	One-week visit at Nikhef - Amsterdam, Netherlands.
03/2011	Mobility grant Explo'RA, Rhone-Alpes region - 2000 Euros.
-,	Six-months project at University of Portsmouth, United Kingdom.
07/2010	Summer Studentship Scheme, University of Glasgow - 1000 Pounds.
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Invited Presentations		
04/2022	Precision calculations for multiboson production and VBS, Plenary, SM@LHC, CERN, Geneva (Switzerland).	
03/2022	Polarisation in $W+jets$, Plenary, 1st CMS Workshop on $V+jets$ Physics, CERN, Geneva (Switzerland).	
01/2022	New physics opportunities for W+jet at the LHC, Seminar, University of Würzburg (Germany).	
09/2021	Precise predictions for di-Higgs VBF production, Plenary, Higgs Hunting 2021, Paris (France).	
06/2021	EW corrections for SM processes, Plenary, Physics at TeV Colliders 2021, Les Houches (France).	
05/2021	Fixed-order and merged parton-shower predictions for WW and WWj production at the LHC including NLO QCD and EW corrections, LHC EW working group, CERN (Switzerland).	
04/2021	Vector-boson scattering at the LHC: unravelling the Electroweak sector, Seminar, University of Freiburg (Germany).	
03/2021	Stress testing the Standard Model via vector-boson scattering at the LHC, DPG Meeting, Dortmund (Germany) - invited topical talk.	
12/2020	Theoretical predictions for Higgs measurements at the LHC, Seminar, Heidelberg (Germany).	
11/2020	Full NLO QCD corrections to off-shell ttbb production, Seminar, RWTH Aachen (Germany).	
10/2020	Multi-particle final states at 1-loop EW, CEPC workshop, Shanghai (China).	
07/2020	Precise predictions for double-Higgs production via vector-boson fusion, LHC-HH Subgroup Meeting (online).	
05/2020	Vector bosons plus jets at the LHC, LHCP2020, Paris (France).	
05/2020	Theoretical predictions for processes with many legs at the LHC, Seminar, Milan (Italy).	
01/2020	Off-shell effects in tt and ttH production, Plenary, ZPW2020, Zurich (Switzerland).	
11/2019	Theoretical predictions for processes with many legs at the LHC, Seminar, Nikhef (Netherlands).	
09/2019	Theoretical predictions for ttH production - NLO QCD + NLO EW, Plenary, TOP2019, Beijing (China).	
09/2019	What can we do better: Precision electroweak, Plenary, ATLAS Standard-Model workshop, Belgrade (Serbia).	
02/2019	Theory predictions for vector-boson scattering at the LHC, Seminar, IPPP Durham (United Kingdom).	
10/2018	Vector-boson scattering at the LHC, Seminar, University of Cambridge (United Kingdom).	
09/2018	Production of top quark pairs at the LHC: NLO corrections and off-shell effects, Seminar, University of Zurich (Switzerland).	

08/2018	Theory input for VBS, QCD@LHC, Dresden (Germany).
07/2018	Top quark at the LHC: NLO corrections and off-shell effects, Seminar, Desy Hamburg (Germany).
04/2018	Theory developments in VBS simulations, Plenary, SM@LHC, Berlin (Germany).
03/2018	Vector-boson scattering at the LHC, Seminar, University of Cambridge (United Kingdom).
02/2018	High-precision description of VBS at the LHC, CMS meeting, CERN (Switzerland).
01/2018	NLO corrections for processes involving off-shell top quarks, Seminar, Freiburg (Germany).
08/2017	Status of EW NLO corrections for multi-boson processes, Plenary, MBI 2017, KIT / Karlsruhe (Germany).
05/2017	Automatised computations of EW corrections using Sherpa+Recola, Rencontres de Blois 2017, Blois (France).
05/2017	NLO EW corrections for processes involving off-shell top quarks, Seminar, Göttingen University (Germany).
04/2017	Higgs production in association with off-shell top-antitop pairs at NLO EW and QCD, CMS generator meeting, CERN - Geneva, (Switzerland).
03/2017	NLO electroweak corrections to off-shell top—antitop production with leptonic decays at the LHC, DPG Meeting - Münster University (Germany).
01/2015	NLO accuracy for Supersymmetric processes at the LHC, Seminar - Würzburg University (Germany).
03/2013	Basics of AdS / CFT correspondence, Seminar - Department of Mathematics - University of Brest (France).
Presentation	ns
6/2021 <i>NI</i>	NLO QCD predictions for $W+c$ -jet production at the LHC,

Other	Presentations
Other	i iesciitations

06/2021	NNLO QCD predictions for $W+c$ -jet production at the LHC, Jets and their substructure from LHC data, CERN (Switzerland).
05/2021	NNLO QCD predictions for $W+c$ -jet production at the LHC, Radcor & LoopFest, Tallahassee (USA).
10/2020	Off-shell effects for ttbb at NLO QCD, Higgs Cross Section Working Group, ttH/tH subgroup, CERN (Switzerland).
02/2020	Review of theoretical predictions for VBS, VBSCAN meeting, Helsinki (Finland).
11/2018	Production of off-shell top pairs in the lepton+jets channel at NLO QCD, LHC top WG meeting, CERN (Switzerland).
10/2018	NLO corrections to VBS, HL/HE-LHC WG1 Meeting, CERN (Switzerland).
11/2017	EW, QCD, and interference contributions for VBS, Workshop Monte-Carlo description of VBS, Nikhef (Netherlands).

- 09/2017 NLO QCD and EW corrections for processes involving off-shell top quarks, RADCOR 2017, St Gilgen (Austria).
- 06/2017 Complete NLO corrections to $pp \to \mu_+ \nu_\mu e_+ \nu_e jj$, VBSCAN meeting, Split (Croatia).
- 06/2017 EW corrections: Recola, Automation, VBS, Les Houches workshop: Physics at TeV Colliders, Les Houches (France).
- 04/2017 Large electroweak corrections to vector-boson scattering at the LHC, DIS 2017 Birmingham University (United Kingdom).
- 03/2017 Higgs production in association with off-shell top-antitop pairs at NLO EW and QCD, DPG Meeting Münster University (Germany).
- 08/2016 NLO EW corrections to off-shell top quark pair production, QCD@LHC 2016 Zurich (Switzerland).
- 12/2015 Simplified models in Madgraph,LHC Dark Matter WG meeting CERN Geneva (Switzerland).
- 11/2015 Precise predictions for Dark Matter production at the LHC, Helmholtz Alliance meeting Physics at the Terascale - Hamburg Desy (Germany).
- 10/2015 Higher-order NLO-QCD predictions for dark matter production at the LHC, New Physics meeting Bonn (Germany).
- 10/2015 NLO predictions for Dark Matter production at the LHC, HAP meeting Karlsruhe (Germany).
- 06/2015 Exploring Dark Matter with AMS-02 through Electroweak Corrections, Patras Workshop Zaragoza (Spain).
- 03/2015 NLO accuracy and spin effects for squark-gluino production and decay, DPG Meeting Wuppertal (Germany).
- 12/2014 Supersymmetry: from the algebra to LHC phenomenology, **Seminar** RWTH Aachen (Germany).
- 10/2014 NLO accuracy for production and decay of squarks matched with parton shower, Theory meeting BCTP Bonn (Germany).
- 09/2014 *NLO* accuracy for production and decay of squarks matched with parton shower, Desy Theory Workshop Desy Hamburg (Germany).
- 07/2014 Next-to-leading order accuracy for production and decay of squarks and gluino, SUSY 2014 University of Manchester (United Kingdom).
- 03/2014 Next to leading order accuracy for production and decay of squarks and gluino, DPG Meeting Mainz University (Germany).
- 03/2013 Supersymmetric Cascade Decays at Next-to-Leading Order: Squark decay, DPG Meeting TU Dresden (Germany).
- 02/2013 Instanton and Strong CP problem, Literature Seminar - RWTH Aachen (Germany).
- 08/2012 Supersymmetric Cascade Decays at Next-to-Leading Order, GK Berichtswoche Vaals (Netherlands).
- 05/2012 Strong vs. Weak Electroweak symmetry breaking (AdS / CFT), Literature Seminar, RWTH Aachen (Germany).
- 08/2011 Rules for colliding branes in higher-dimensions, **Seminar**, ICG-Portsmouth (United Kingdom).

08/2010 *Modelling proton-proton collisions at the LHC*, **Seminar**, University of Glasgow (United Kingdom).

Referees _

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• Margarete Mühlleitner

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