

Curriculum Vitae

PERSONAL INFORMATION

Name and surname KORNELIJA PASSEK-KUMERIČKI
Academic title Dr. sc.
Year and institution of PhD obtained 2001, University of Zagreb, Croatia
Address Bijenička c. 54
Phone +385-1-4561032
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E-mail passek@irb.hr
Personal web page <http://www.irb.hr/eng/People/Kornelija-Passek-Kumericki>
Citizenship/Nationality Croatian/Croat
Date and place of birth 19.04.1970., Zagreb, Croatia
Parents Ivan and Olga Passek
Family status married; husband Krešimir Kumerički
Children three children: son Luka (2004.), daughter Kaja (2008.), son Neo (2012.)

EDUCATION

Year 2001
Institution *University of Zagreb, Zagreb, Croatia*
Title of qualification awarded **Ph. D.**
Thesis "*The application of the perturbative QCD to the pion form factor*", supervisor: dr. Bene Nižić (Ruđer Bošković Institute, Zagreb)

Year 1997
Institution *University of Zagreb, Zagreb, Croatia*
Title of qualification awarded **M. Sc.**
Thesis "*Exclusive photoproduction of K and K* mesons at large momentum transfer*", supervisor: dr. Bene Nižić (Ruđer Bošković Institute, Zagreb)

Year 1994
Institution *University of Zagreb, Zagreb, Croatia*
Title of qualification awarded **B. Sc.** (Dipl. Ing. Phys.)
Thesis "*The computer-algebraic treatment of the hard exclusive reactions*", supervisor: dr. Wolfgang Schweiger (Karl-Franzens Universität Graz), dr. Miroslav Furić (University of Zagreb)

Year 1988 - 1994
Institution *University of Zagreb, Zagreb, Croatia*
Description Study of (theoretical) physics at Faculty of Physics

Year 1984 - 1988
Institution *Mathematical gymnasium, Zagreb, Croatia*
Title of qualification awarded Abitur

TRAINING

Year 1994-1996
Institution *University of Zagreb, Zagreb, Croatia*
Subject and skills covered PhD Study

LANGUAGES

MOTHER TONGUE Croatian

Language English
Speaking/Writing/Reading *Excellent/Excellent/Excellent*

Language German
Speaking/Writing/Reading *Excellent/Excellent/Excellent*

Language French
Speaking/Writing/Reading *Basic/Basic/Basic*

WORK EXPERIENCE

Date (from – until) 05/2005 -present
Institution Rudjer Boskovic Institute, Zagreb, Croatia
Position Research Associate
Work field *Theoretical particle physics*

Date (from – until) 09/2005 – 01/2007
Institution University of Regensburg, Germany
Position Research position
Work field *Theoretical particle physics*

Date (from – until) 11/2001 – 10/2002
Institution University of Wuppertal, Germany
Position Postdoctoral Research Assistant
Work field *Theoretical particle physics*

Date (from – until) 04/2001 – 05/2005
Institution Rudjer Boskovic Institute, Zagreb, Croatia
Position Postdoctoral Research Assistant
Work field *Theoretical particle physics*

Date (from – until) 03/1994 – 04/2001
Institution Rudjer Boskovic Institute, Zagreb, Croatia
Position Research Assistant
Work field *Theoretical particle physics*

RESEARCH FIELD

Theoretical elementary particle physics

Main topics:

- investigation of exclusive processes and the application of (perturbative) QCD at large momentum transfer
- phenomenology of non-commutative Standard model

LONGER VISITS TO FOREIGN RESEARCH AND EDUCATION INSTITUTIONS

(ONLY VISITS LONGER THAN 3 MONTHS)

Date (from – until)	02/2010 – 06/2010
Institution	University of Regensburg, Germany
Position	Research position
Date (from – until)	09/2005 – 01/2007
Institution	University of Regensburg, Germany
Position	Research position
Date (from – until)	01/11/2001 – 31/10/2002
Institution	University of Wuppertal, Germany
Position	Postdoctoral Research Assistant
Date (from – until)	03/1994 – 05/1994
Institution	Institut für Theoretische Physik, Karl Franzens Universität, Graz, Austria
Position	Research visit (austrian scholarship)
Date (from – until)	
Institution	Institut für Theoretische Physik, Karl Franzens Universität, Graz, Austria
Position	Work on B.Sc. Thesis (austrian scholarship)

INTERNATIONAL PROJECTS
(LEADER AND ASSOCIATES)

2016 – 2019

Project coordinator (Dec 2016 – Jan 2018), project manager and work package leader of the H2020 (Coordination and Support) project:

RBI-T-WINNING: Twinning a step forward of the Theoretical Physics Division of the Ruđer Bošković Institute, H2020 project (EU H2020 CSA-2015 number 692194)

Project coordinators: Fabrizio Nesti (Feb 2016 - Nov 2016)

Kornelija Passek-Kumerički (Dec 2016 - Jan 2018)

Vinko Zlatić (Feb 2018 – Jan 2019)

Participant organizations:

RBI (coordinator institution), SISSA (Italy), LPT Orsay (France), Ludwig Maximilian University (Germany), Niels Bohr Institute (Denmark)

2008 – 2011

Investigator on the research project:

Revealing Generalized Parton Distributions, DFG project

Principal investigators: Prof. Dr. Maxim Polyakov (Uni. Bochum),

Dr. sc. Krešimir Kumerički (Uni. Zagreb)

Local participants: Dr.sc. Kornelija Passek-Kumerički

2005 – 2010

Investigator on the research project:

QCD sum rules for exclusive decays of heavy hadrons,

Institutional partnership (RBI and Uni Siegen) promoted by the Alexander von Humboldt foundation

Principal investigators: Dr. sc. Blaženka Melić,

Prof. dr. Thomas Mannel (Uni. Siegen)

Local participants: Dr. sc. Goran Duplančić, Dr.sc. Kornelija Passek-Kumerički

2003 – 2006

Principal investigator on the research project:

Hard exclusive photo- and electroproduction of heavy quarkonium,

Austrian-croatian bilateral project

Principal investigators: Dr. sc. Kornelija Passek-Kumerički,

Prof. Dr. Wolfgang Schweiger (Karl-Franzens Uni. Graz);

Local participants: Dr. sc. Blaženka Melić

2003 – 2005

Principal investigator on the research project:

Higher-order QCD corrections in exclusive processes - mesons and baryons,

DFG project (436 KRO 113/6/0-1)

Principal investigators: Prof. Dr. Klaus Goeke (Uni. Bochum),

Dr. sc. Kornelija Passek-Kumerički;

Local participants: Dr. sc. Goran Duplančić, Dr. sc. Bene Nižić

CROATIAN PROJECTS
(LEADER AND ASSOCIATES)

2014 - 2018

Investigator on the research project:

Physics of the Standard Model and Beyond; CSF/HRZZ project (HrZZ 5169)

Principal investigator: Dr. sc. Blaženka Melić

2007 – 2013

Investigator on the research project:

Fundamental interactions in elementary particle physics and cosmology;

MSE/MZOŠ project (098-0982930-2864)

Principal investigators: Dr. sc. Branko Guberina (2007-2011),

Dr. sc. Nevenko Bilić (2012), Dr. sc. Goran Duplančić (2013)

2001 – 2006

Investigator on the research project:

Fundamental interactions in elementary particle physics and cosmology;

MST/MZT project (0098002)

Principal investigator: Dr. sc. Branko Guberina

1998 – 2000

Principal investigator on the research project:

Ekskluzivni procesi u kvantnoj kromodinamici; incentive MST/MZT project (098463)

1996 – 2001

Investigator on the research project:

Theoretical research of elementary particle properties; MST/MZT project (00980102)

Principal investigator: Dr. sc. Branko Guberina

ORGANIZATIONAL SKILLS AND COMPETENCES (ORGANIZATION OF HOME AND INTERNATIONAL SCIENCE EVENTS)

- 2018 member of the Organizing Committee of the international workshop
"Getting to Grips with QCD-Summer Edition",
Primošten, Hrvatska, 18-22 September 2018
- 2018 member of the Organizing Committee of the international school
"QCD meets precision",
LPT Orsay, France, 18-22 June 2018
- 2018 member of the Organizing Committee of the international workshop
"Getting to Grips with QCD",
Paris, France, 4-6 April 2018
- 2016 member of the Organizing Committee of the international meeting
ACHT 2016, "Non-perturbative aspects of Quantum Field Theory",
Čakovec, Croatia, 5-7 October 2016
- 2016 member of the Organizing Committee of the international school
"Dense systems in QCD at asymptotical energies",
LPT Orsay, France, 20 June-1 July 2016
- 2014 Co-Chair of the International Workshop on Diffraction in High-Energy Physics
"Diffraction 2014",
Primošten, Croatia, 10-16 September, 2014
- 2009 member of the Organizing Committee of the international workshop
"Progress and Challenges in Particle Physics",
Primošten, Croatia, 29 September-3 October 2009
- 2001 member of the Organizing Committee of the international conference
8th Adriatic Meeting "Particle Physics in the new millenium",
Dubrovnik, Croatia, 4-14 September 2001

MEMBERSHIP IN SCIENCE ORGANIZATIONS AND BODIES

Member of the Croatian Physical Society

TEACHING

- 2015 - 2017
exercises in *Quantum Physics*, PMF, University of Zagreb
- 2006 – 2007 (winter semester)
exercises in *Math. Ergänzugen in der Physik*, University of Regensburg, Germany
- 2005 – 2006 (summer semester)
exercises in *Struktur der Materie(III)*, University of Regensburg, Germany

TRAINING OF YOUNG RESEARCHERS AND SCIENTISTS

2010-2012: collaboration with PhD student T. Lautenschlager (Uni. Regensburg, Germany); published joint paper (D. Mueller, T. Lautenschlager, K. Passek-Kumericki, A. Schaefer, Nucl. Phys. B884 (2014) 438-546)

2006-2008: collaboration with PhD student G. Peters (Uni. Regensburg, Germany); published joint paper (K. Passek-Kumerički, G. Peters, Phys. Rev. D78 (2008) 033009)

OTHER RESEARCH ACTIVITIES

Refereeing for Croatian physical journal "Fizika B", Eur.Phys.J C
Reviewer for CSF projects

COMPUTER SKILLS

Operator systems: Unix (Linux), MS Windows
Programming: Fortran
Software: Mathematica, MS Office

ARTICLES

Complete list of articles in CC journals

1. P. Kroll, K. Passek-Kumericki, "On some implications of the BaBar data on the $\gamma^* \eta'$ transition form factor", Phys. Lett. B793 (2019) 195-199 [[arXiv:1903.06650 \[hep-ph\]](#)].
2. G. Duplancic, K. Passek-Kumericki, B. Pire, L. Szymanowski, S. Wallon, "Probing axial quark generalized parton distributions through exclusive photoproduction of a $\gamma\pi^\pm$ pair with a large invariant mass", JHEP 1811 (2018) 179, [[arXiv:1809.08104 \[hep-ph\]](#)].
3. P. Kroll, K. Passek-Kumericki, "Twist-3 contributions to wide-angle photoproduction of pions", Phys. Rev. D97 (2018) 074023 [[arXiv:1802.06597 \[hep-ph\]](#)].
4. G. Duplancic, D. Mueller, K. Passek-Kumericki, "Next-to-leading order corrections to deeply virtual production of pseudoscalar mesons", Phys. Lett. B771 (2017) 603-610, [[arXiv:1612.01937 \[hep-ph\]](#)].
5. D. Mueller, T. Lautenschlager, K. Passek-Kumericki, A. Schaefer, "Towards a fitting procedure to deeply virtual meson production – the next-to-leading order case –", Nucl.Phys. B884 (2014) 438-546, [[arXiv:1310.5394 \[hep-ph\]](#)].
6. Peter Kroll, Komelija Passek-Kumericki, "The η (η') gamma transition form factor and the gluon–gluon distribution amplitude", J.Phys. G40 (2013) 075005, [[arXiv:1206.4870 \[hep-ph\]](#)].
7. K. Passek-Kumericki, G. Peters, "Nucleon Form Factors to Next-to-Leading Order with Light-Cone Sum Rules", Phys. Rev. D78 (2008) 033009, [[arXiv:0805.1758 \[hep-ph\]](#)].
8. Kresimir Kumericki, Dieter Mueller, Komelija Passek-Kumericki, "Sum rules and dualities for generalized parton distributions: Is there a holographic principle?", Eur. Phys. J C58 (2008) 193-215, [[arXiv:0805.0152 \[hep-ph\]](#)].
9. K. Kumericki, D. Mueller, K. Passek-Kumericki, "Towards a fitting procedure for deeply virtual Compton scattering at next-to-leading order and beyond", Nucl. Phys. B 794 (2008) 244-323, [[arXiv:hep-ph/0703179](#)].
10. K. Kumericki, Dieter Mueller, K. Passek-Kumericki, A. Schaefer "Deeply virtual Compton scattering beyond next-to-leading order: the flavor singlet case", Phys. Lett. B 648 (2007); 186-194 [[arXiv:hep-ph/0605237](#)].
11. Blazenka Melic, Komelija Passek-Kumericki, Josip Trampetic "K \rightarrow pi gamma decay and space-time noncommutativity", Phys.Rev.D72 (2005) 057502 [[arXiv:hep-ph/0507231](#)].
12. Blazenka Melic, Komelija Passek-Kumericki, Josip Trampetic "Quarkonia decays into two photons induced by the space-time non-commutativity", Phys.Rev.D72 (2005) 054004 [[arXiv:hep-ph/0503133](#)].
13. Blazenka Melic, Komelija Passek-Kumericki, Josip Trampetic, Peter Schupp, Michael Wohlgenannt "The Standard model on non-commutative space-time: Strong interactions included", Eur.Phys.J.C42 (2005) 499-504 [[arXiv:hep-ph/0503064](#)].
14. Blazenka Melic, Komelija Passek-Kumericki, Josip Trampetic, Peter Schupp, Michael Wohlgenannt "The Standard model on non-commutative space-time: Electroweak currents and Higgs sector", Eur.Phys.J.C42 (2005) 483-497 [[arXiv:hep-ph/0502249](#)].
15. A. P. Bakulev, K. Passek-Kumericki, W. Schroers, N. G. Stefanis, "Pion form factor in QCD: From nonlocal condensates to NLO analytic perturbation theory", Phys.Rev.D70 (2004) 033014 [[arXiv:hep-ph/0405062](#)].
16. H.W. Huang, R. Jakob, P. Kroll, K. Passek-Kumericki, "Signatures of the handbag mechanism in wide-angle photoproduction of pseudoscalar mesons", Eur.Phys.J. C33 (2004) 91-103 [[arXiv:hep-ph/0309071](#)].
17. B. Melic, D. Muller, K. Passek-Kumericki, "Next-to-next-to-leading order prediction for the photon-to-pion transition form factor", Phys. Rev. D 68 (2003) 014013 [[arXiv:hep-ph/0212346](#)].
18. Peter Kroll, Komelija Passek-Kumericki, "The two-gluon components of the eta and eta' mesons to leading-twist accuracy", Phys. Rev. D 67 (2003) 054017 [[arXiv:hep-ph/0210045](#)].
19. B. Melic, B. Nizic, K. Passek, "A note on the factorization scale independence of the PQCD predictions for exclusive processes", Eur.Phys.J.C36 (2004) 453-458 [[arXiv:hep-ph/0107311](#)].
20. B. Melic, B. Nizic, K. Passek, "Brodsky-Lepage-Mackenzie scale for the pion transition form factor", Phys. Rev. D 65 (2002) 053020 [[arXiv:hep-ph/0107295](#)].
21. B. Melic, B. Nizic, K. Passek, "Complete next-to-leading order perturbative QCD prediction for the pion electromagnetic form factor", Phys. Rev. D60 (1999) 074004 [[arXiv:hep-ph/9802204](#)].
22. P. Kroll, M. Schuermann, K. Passek, W. Schweiger, "Exclusive Photoproduction of Large Momentum-Transfer K and K* Mesons", Phys. Rev. D55 (1997) 4315 [[arXiv:hep-ph/9604353](#)].

Complete list of articles in other journals

23. A.T. Goritschnig, B. Melic, K. Passek-Kumericki, W. Schweiger, "Hard Exclusive Photoproduction of Φ and J/Ψ Mesons", Prog. Part. Nucl. Phys.61 (2008) 173-174, [[arXiv:0711.3973 \[hep-ph\]](#)].
24. K. Passek-Kumericki, "Hard exclusive reactions and the two-gluon components of η and η' mesons", Fizika B13 (2004) 513-522 [[arXiv:hep-ph/0311039](#)].
25. B. Melic, B. Nizic, K. Passek, "On the complete next-to-leading order pQCD prediction for the pion form factor", Fizika B 8 (1999) 327 [[arXiv:hep-ph/9903426](#)].

List of proceedings papers

1. A.T. Goritschnig, B. Melic, K. Passek-Kumericki, W. Schweiger, "Hard Exclusive Φ and J/Ψ Photoproduction off a Proton", Proceedings of Science DIS2014 170, [[arXiv:1411.0904\[hep-ph\]](#)].
2. K. Kumericki, D. Mueller, K. Passek-Kumericki, A. Schaefer, M. Meskauskas. "Accessing GPDs from experiment — potential of a high-luminosity EIC —", The EIC Science case: a report on the joint BNL/INT/JLab program "Gluons and the quark sea at high energies: distributions, polarization, tomography", Seattle, Washington, September 13 to November 19, 2010 / Boer, D. ; Diehl, M. ; Milner R. ; Venugopalan, R. ; Vogelsang W. (ur.). - Published by: Brookhaven National Laboratory, USA ; Institute of Nuclear Theory, University of Washington, USA ; Thomas Jefferson National Accelerator Facility, USA ; August 2011 (BNL-96164-2011, INT-PUB-11-034, JLAB-THY-11-1373) , 2011. 185-196. [[arXiv:1105.0899 \[hep-ph\]](#)].
3. K. Kumericki, D. Mueller, K. Passek-Kumericki, "A partonic interpretation of DVCS at small $x(Bj)$ ", in AIP Conf.Proc.1105 (2009) 367-372, prepared for Diffraction 2008: International Workshop on Diffraction in High Energy Physics, La Londe-les-Maures, France, 9-14 Sep 2008.
4. K. Kumericki, D. Mueller, K. Passek-Kumericki, "Fitting DVCS amplitude in momentum-space approach to GPDs", Proc. of the XVI International Workshop on Deep-Inelastic Scattering and Related Topics (DIS 2008), London, England, 7-11 April 2008 (edited by R. Devenish, J. Ferrando), p. 98. [[arXiv:0807.0159 \[hep-ph\]](#)].
5. K. Kumericki, D. Mueller, K. Passek-Kumericki, "GPD sum rules: A Tool to reveal the quark angular momentum", Proc. of the XVI International Workshop on Deep-Inelastic Scattering and Related Topics (DIS 2008), London, England, 7-11 April 2008 (edited by R. Devenish, J. Ferrando), p. 214-217. [[arXiv:0807.0170 \[hep-ph\]](#)].
6. K. Kumericki, D. Mueller, K. Passek-Kumericki, "Fitting DVCS at NLO and beyond", Proc. of the 12th International Conference on Elastic and Diffractive Scattering: Forward Physics and QCD, Hamburg, DESY, Germany, 21-25 May 2007 (edited by J. Bartels, K. Borras, M. Diehl, H. Jung; Verlag Deutsches Elektronen-Synchrotron, 2007), p. 17-25. [[arXiv:0710.5649 \[hep-ph\]](#)].
7. N. G. Stefanis, A. P. Bakulev, S. V. Mikhailov, K. Passek-Kumericki, W. Schroers, "Pion structure: From nonlocal condensates to NLO analytic perturbation theory", Proc. of the Workshop on Hadron Structure and QCD: From Low to High Energies (HSQCD 2004), St. Petersburg, Repino, Russia, 18-22 May 2004. [[arXiv:hep-ph/0409176](#)].
8. K. Passek-Kumericki, "Hard exclusive processes and higher-order QCD corrections", in the Proc. of the 9th Adriatic Meeting "Particle Physics and the Universe", Dubrovnik, Croatia, 4-14 September 2003 (edited by J. Trampetic, J. Wess; Springer-Verlag, 2004), p. 399-414 [[arXiv:hep-ph/0407122](#)].
9. K. Passek, "Leading-twist two gluon distribution amplitude and exclusive processes involving η and η' mesons", in Proc. of the JLab workshop on Exclusive Processes at High Momentum Transfer, Jefferson Lab, Newport News, Virginia, USA, 15-18 May, 2002: Newport News 2002, Exclusive Processes at High Momentum Transfer (edited by A. Radyushkin, P. Stoler; Singapore, World Scientific, 2002.), p. 136-141 [[arXiv:hep-ph/0210079](#)].
10. B. Melic, B. Nizic, K. Passek, "BLM scale for the pion transition form factor", in Proc. of the 8th Adriatic Meeting, Central European Symposia "Particle Physics in the New Millennium", Dubrovnik, Croatia, 4-14 September 2001 (electronic form, CD) [[arXiv:hep-ph/0210080](#)].
11. B. Melic, B. Nizic, K. Passek, "On the pQCD prediction for the pion form factor", in Proc. of the 6th INT / Jlab Workshop on Exclusive and Semiexclusive Processes at High Momentum Transfer, Newport News, Virginia, USA, 20-22 May 1999: Newport News 1999, Exclusive and semi-exclusive processes at high momentum transfer (edited by C. Carlson, A. Radyushkin; Singapore, World Scientific, 2000.), p. 279-286 [[arXiv:hep-ph/9908510](#)].

EDITORIAL BOOKS

1. M. Capua, R. Fiore, K. Kumericki, A. Papa, K. Passek-Kumericki, E. Tassi, G.P. Vacca, Proceedings of "Diffraction 2014: International Workshop on Diffraction in High Energy Physics", Primošten, Croatia, 10-16 September 2014"; Melville, New York, AIP Publishing, 2015.

TALKS

SUMMARY:

- Invited talks at international conferences: **8**
- Other talks (posters) at international conferences: **15** (1 poster)
- (Invited) talks at scientific institutions: **9**

Invited talks at international conferences

1. K. Passek-Kumericki, "*On meson production, higher orders, DAs and all that*", invited talk given at the workshop Prospects for extraction of GPDs from global fits of current and future data, Warsaw, Poland, 22-25 January 2019.
2. K. Passek-Kumericki, "*Introduction to Generalized Parton Distributions, DVCS and DVMP*", invited talk given at the WE-Heraeus Physics School Diffractive and electromagnetic processes at high energies, Bad Honnef, Germany, 17-21 August 2015.
3. K. Passek-Kumericki, "*GPDs from DVCS at L0 and beyond*", invited talk given at the workshop Diffractive and electromagnetic processes at LHC, Trento, Italy, 4-8 January, 2010.
4. K. Passek-Kumericki, "*Fitting GPDs to DVCS Data: At Next-to-Leading-Order and Beyond*", invited talk given at the GPD 2008: Workshop on Hard Exclusive Reactions, Trento, Italy, 9-13 June, 2008.
5. K. Passek-Kumericki, "*Towards a fitting procedure for DVCS at next-to-leading order and beyond*", invited talk given at the 12th International Conference on Elastic and Diffractive Scattering Forward Physics and QCD, DESY, Hamburg, Germany, 21-25 May, 2007.
6. K. Passek-Kumericki, "*Hard exclusive processes and higher-order QCD corrections*", invited talk given at the 9th Adriatic Meeting, Dubrovnik, Croatia, 4-14 September 2003 .
7. K. Passek, "*On the pQCD prediction for the pion form factor*", invited talk given at the workshop Exclusive & Semiexclusive Processes at High Momentum Transfer, Joint INT/ Jefferson Lab Workshop, Newport News, Virginia, USA, 20-22 May 1999.
8. K. Passek, "*On the complete next-to-leading order pQCD prediction for the pion form factor*", invited talk given at the workshop Structure Functions and Hadronic Wave Functions, Bad Honnef, Germany, 14-18 December 1998.

Other talks (posters) at international conferences

1. K. Passek-Kumericki, "*On exclusive hard processes with light mesons*", talk given at the workshop Getting to Grips with QCD, Paris, France, 4-6 April 2018.
2. K. Passek-Kumericki, "Exclusive hard processes with mesons", talk given at ACHT2017 meeting Non-Perturbative Methods in Quantum Field Theory, Zalakaros, Hungary, 20-22 September 2017 .
3. K. Passek-Kumericki, "Generalized Parton Distributions (GPDs) through DVCS and DVMP", talk given at ACHT2015 meeting Strong Interactions in Quantum Field Theory, Leibnitz, Austria, 7-9 October 2015 .
4. K. Passek-Kumericki, "*Higher-order QCD corrections to hard exclusive processes*", talk given at the Symposium on Quarks in Hadrons and Nuclei II, Rothenfels Castle, Oberwaelz, Austria, 15-20 September 2003 .
5. K. Passek-Kumericki, "*Hard exclusive reactions and the two-gluon components of the eta and eta' mesons*", talk given at the NAPP 2003 Conference, Dubrovnik, Croatia, 26-31 May, 2003 .
6. K. Passek-Kumericki, "*Two-gluon components of the eta and eta' mesons in the standard hard-scattering picture*", talk given at the Internationale Universitaetswochen fuer Theoretische Physik (Flavour Physics), Schladming, Austria, 22 - 28 February, 2003.
7. K. Passek-Kumericki, "*The leading-twist contributions of the two-gluon states in the hard processes involving eta and eta' mesons*", talk given at the DESY Theory Workshop on Quantum Chromodynamics, DESY, Hamburg, Germany, 24-27 September, 2002.
8. K. Passek-Kumericki, "*The leading-twist two gluon distribution amplitude in exclusive processes involving eta and eta' mesons*", talk given at the workshop on Spontaneously Broken Chiral Symmetry and Hard QCD Phenomena, Bad Honnef, Germany, 15-19 July, 2002.
9. K. Passek, "*Leading-twist two gluon distribution amplitude and exclusive processes involving eta and eta' mesons*", talk given at the workshop on Exclusive Processes at High Momentum Transfer, Jefferson Lab, Newport News, USA, 15-18 May, 2002.
10. K. Passek, "*BLM scale for the pion transition form factor*", talk given at the 8th Adriatic Meeting, Dubrovnik, Croatia, 4-14 September 2001.

11. K. Passek, "*BLM scale for the pion transition form factor*", poster presented at the 55th Scottish Universities Summer School in Physics, StAndrews, Scotland, U.K., 7-23 August 2001.
12. K. Passek, "*BLM scale setting for the pion transition form factor*", talk given at the Triangle Seminar on Particle Physics, Vienna, Austria, December 1-2, 2000.
13. K. Passek, "*On the complete next-to-leading order pQCD prediction for the pion form factor*", talk given at the conference Nuclear and Particle Physics with CEBAF at Jefferson Lab., Dubrovnik, Croatia, 3-10 November 1998.
14. K. Passek, "*On the complete next-to-leading order QCD corrections to the pion electromagnetic form factor*", talk given at the Triangle Seminar on Particle Physics, Vienna, Austria, 28-29 November 1997.
15. K. Passek, "*Exclusive photoproduction of large momentum-transfer K and K* mesons*", talk given at the Universitaetswochen fuer Kern- und Teilchen Physik, Schladming, Austria, March 1996.

(Invited) talks at scientific institutions

1. K. Passek-Kumericki, "*On exclusive hard processes with mesons and deeply virtual processes*", talk given at NCBJ, Warsaw, Oct 6th, 2017.
2. K. Passek-Kumericki, "*The Standard model on non-commutative space-time*", talk given at the University of Oslo, Sep 26th, 2007.
3. K. Passek-Kumericki, "*Hard exclusive processes and higher-order QCD corrections*", talk given at the University of Regensburg, Germany, Oct 21st, 2005.
4. K. Passek-Kumericki, "*Hard exclusive processes and higher order QCD corrections*", talk given at the University of Wuppertal, Germany, Nov 18th, 2003.
5. K. Passek-Kumericki, "*Perturbative QCD approach to the hard exclusive reactions and the two-gluon components of the eta and eta' mesons*", talk given at the Karl-Franzens Universitaet, Graz, Austria, June 25th, 2003 .
6. K. Passek-Kumericki, "*Hard exclusive processes and the two-gluon components of the eta and eta' mesons*", talk given at the University of Aachen, Germany, Oct 24th, 2002.
7. K. Passek-Kumericki, "*Transition form factor for the flavour singlet pseudoscalar meson*", talk given at the University of Wuppertal, Germany, Feb 13th, 2002.
8. K. Passek, "*BLM scale setting for the pion transition form factor*", talk given at the University of Bochum, Germany, June 18, 2001.
9. K. Passek, "*On the complete alphaS-corrections to the pion form factor*", talk given at the Institut fuer Theoretische Physik, Karl-Franzens Universitaet, Graz, Austria, May 28, 1997.

SOME QUALITATIVE AND QUANTITATIVE BIBLIOGRAPHIC DATA

Selection of 10 most important papers published in journals

1. D. Mueller, T. Lautenschlager, K. Passek-Kumericki, A. Schaefer, "Towards a fitting procedure to deeply virtual meson production – the next-to-leading order case –", Nucl.Phys. B884 (2014) 438-546, [[arXiv:1310.5394](https://arxiv.org/abs/1310.5394)][[hep-ph](#)]. ([15*](#) INSPIRE citations)
2. Kresimir Kumericki, Dieter Mueller, Komelija Passek-Kumericki, "Sum rules and dualities for generalized parton distributions: Is there a holographic principle?", Eur. Phys. J C58 (2008) 193-215, [[arXiv:0805.0152](https://arxiv.org/abs/0805.0152)][[hep-ph](#)]. ([59*](#) INSPIRE citations)
3. K. Kumericki, D. Mueller, K. Passek-Kumericki, "Towards a fitting procedure for deeply virtual Compton scattering at next-to-leading order and beyond", Nucl. Phys. B 794 (2008) 244-323, [[arXiv:hep-ph/0703179](https://arxiv.org/abs/hep-ph/0703179)]. ([126*](#) INSPIRE citations)
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* citations according to INSPIRE database, May 2019.

STATISTICS FOR ARTICLES (May 2019.)

CITESUMMARY

according to the SLAC **INSPIRE/SPIRES** database

- Papers:
 - **22** published in CC (Current Contents) journals,
 - 3** papers in other journals
 - 11 proceedings papers,
 - 3 papers only in e-form (arXiv, online proc....)Total number of papers: 39
- Number of citations: **1069** for **25 journal papers** (1594 total)
- more than 100 citations: 3 journal papers
50-100 citations: 7 journal papers
10-49 citations: 8 journal papers
- Average citations per paper: **42.8** for 25 journal papers (40.9 for all papers)
- h-index: **15** for 25 journal papers (17 for all papers)

* INSPIRE (<http://inspirehep.net/>): High Energy Physics information system

(the most relevant source for High Energy papers--includes also the citations in proceeding papers, citations to preprints submitted to arXiv...)

CITESUMMARY

according to **WoS (Web of Science)** database

- Total number of papers published in journals from WoS database: **23**
- Total number of citations: **828 (785** without self-citations)
- Average citations per paper: **36**
- h-index: **15**

IF, rank and quartiles for journals

according to WoS (Web of Science) database

<u>Journal</u>	<u>Number of published papers</u>	IF 2017	5 year IF	Rank	Quartiles
Prog. Part. Nucl.Phys.	1	11.049	5.682	2**	Q1
JHEP	1	5.541	4.807	4**	Q1
Eur. Phys. J. C	5	5.172	4.545	5**	Q1
Phys. Rev. D	10	4.394	3.797	7**	Q1
Phys. Lett. B	3	4.254	3.968	8**	Q2
J. Phys. G	1	3.456	2.819	9**	Q2
Nucl. Phys. B	2	3.285	3.055	11**	Q2
Fizika	2	-	-	-	-

** from 29 journals in PHYSICS, PARTICLES & FIELDS

Average IF: 4.75 (5 year: 4.00)