

Životopis/Popis publikacija i predavanja

OSOBNI PODACI

Ime i prezime	KORNELIJA PASSEK-KUMERIČKI
Titula	Dr. sc.
Godina i ustanova stjecanja titule	2001, PMF, Sveučilište u Zagrebu
Adresa	Bijenička c. 54
Telefon	+385-1-4561032
Telefaks	+385-1-4680223
E-adresa	passek@irb.hr
Osobna web stranica	http://www.irb.hr/Ljudi/Kornelija-Passek-Kumericki
Državljanstvo/nacional.	Hrvatsko / Hrvatica
Datum i mjesto rođenja	19.04.1970., Zagreb
Roditelji	Ivan i Olga Passek
Obiteljsko stanje	udata; suprug Krešimir Kumerički
Djeca	troje djece

ŠKOLOVANJE

Godina	2001
Institucija	PMF, Sveučilište u Zagrebu
Zvanje	Dr. sc.
Radnja	“Primjena perturbativne kvantne kromodinamike na određivanje funkcije strukture piona”, (“The application of the perturbative QCD to the pion form factor”), mentor: dr. Bene Nižić (Ruđer Bošković Institute, Zagreb)
Godina	1997
Institucija	PMF, Sveučilište u Zagrebu
Zvanje	Mr. Sc.
Radnja	“Ekskluzivna fotoprodukcija K i K^* mezona pri velikim prijenosima impulsa” (“Exclusive photoproduction of K and K^* mesons at large momentum transfer”), mentor: dr. Bene Nižić (Ruđer Bošković Institute, Zagreb)
Godina	1994
Institucija	PMF, Sveučilište u Zagrebu
Zvanje	Dipl. Ing. fizike
Radnja	“The computer-algebraic treatment of the hard exclusive reactions” (“Kompjutersko algebarska obrada tvrdih ekskluzivnih reakcija”), mentori: dr. Wolfgang Schweiger (Karl-Franzens Universitaet Graz), dr. Miroslav Furić (University of Zagreb)
Godina	1988 - 1994
Institucija	PMF, Sveučilište u Zagrebu
Školovanje	Studij (teorijske) fizike na Prirodoslovno-matematičkom fakultetu (PMF) u Zagrebu
Godina	1984 - 1988
Institucija	Matematičko-informatički obrazovni centar (MIOC), Zagreb
Školovanje	Srednja škola (gimnazija) s maturom

USAVRŠAVANJE

Godina	1994-1996
Institucija	PMF, Sveučilište u Zagrebu
Opis	Postdiplomski studij

JEZICI

MATERINSKI JEZIK	hrvatski
Jezik	engleski
Govor/Pisanje/Čitanje	izvršno/izvršno/izvršno
Jezik	njemački
Govor/Pisanje/Čitanje	izvršno/izvršno/izvršno
Jezik	francuski
Govor/Pisanje/Čitanje	osnovno/osnovno/osnovno

RADNO ISKUSTVO

Datumi (od-do)	04/2020 -do danas
Ustanova zaposlenja	Institut Ruđer Bošković (IRB), Zagreb
Naziv radnog mjesta	Viši znanstveni suradnik
Područje rada	<i>Teorijska fizika elementarnih čestica</i>
Datumi (od-do)	05/2005 - 03/2020
Ustanova zaposlenja	Institut Ruđer Bošković (IRB), Zagreb
Naziv radnog mjesta	Znanstveni suradnik
Područje rada	<i>Teorijska fizika elementarnih čestica</i>
Datumi (od-do)	09/2005 – 01/2007
Ustanova zaposlenja	University of Regensburg, Germany
Naziv radnog mjesta	Gostujući znanstvenik
Područje rada	<i>Teorijska fizika elementarnih čestica</i>
Datumi (od-do)	11/2001 – 10/2002
Ustanova zaposlenja	University of Wuppertal, Germany
Naziv radnog mjesta	Znanstvenik, postdoktorand
Područje rada	<i>Teorijska fizika elementarnih čestica</i>
Datumi (od-do)	04/2001 – 05/2005
Ustanova zaposlenja	Institut Ruđer Bošković (IRB), Zagreb
Naziv radnog mjesta	Asistent s doktoratom
Područje rada	<i>Teorijska fizika elementarnih čestica</i>
Datumi (od-do)	03/1994 – 04/2001
Ustanova zaposlenja	Institut Ruđer Bošković (IRB), Zagreb
Naziv radnog mjesta	Znanstveni novak
Područje rada	<i>Teorijska fizika elementarnih čestica</i>

PODRUČJE ISTRAŽIVANJA

Teorijska fizika elementarnih čestica

Glavne teme istraživanja:

- istraživanje ekskluzivnih procesa i primjena (perturbativne) kvantne kromodinamike pri velikim momentima prijenosa
- fenomenologija nekomutativnog Standardnog modela fizike elementarnih čestica

GOSTOVANJA NA STRANIM ZNANSTVENIM INSTITUCIJAMA

(SAMO BORAVCI DUŽI OD 3 MJESECA)

Datumi (od – do)	02/2010 – 06/2010
Institucija	University of Regensburg, Germany
Opis	Gost znanstvenik
Datumi (od – do)	09/2005 – 01/2007
Institucija	University of Regensburg, Germany
Opis	Gost znanstvenik
Datumi (od – do)	01/11/2001 – 31/10/2002
Institucija	University of Wuppertal, Germany
Opis	Znanstvenik (postdoktoralna pozicija)
Datumi (od – do)	03/1994 – 05/1994
Institucija	Institut fur Theoretische Physik, Karl Franzens Universitaet, Graz, Austria
Opis	Znanstvena suradnja (austrijska stipendija)
Datumi (od – do)	03/1993 – 06/1993
Institucija	Institut fuer Theoretische Physik, Karl Franzens Universitaet, Graz, Austria
Opis	Izrada diplomskog rada (austrijska stipendija)

2019 – (2023)

Voditelj istraživačkog projekta na ustanovi:

STRONG-2020 project, EU Horizon 2020 research and innovation programm,
(EK-H2020-INFRAIA-2018-1, grant agreement No 824093,
JRA5-GPD-ACT: Generalized Parton Distributions)

2016 – 2019

Voditelj projekta (Dec 2016 – Jan 2018), suvoditelj projekta i voditelj radnih paketa
Obzor2020 (Širenje izvrsnosti i sudjelovanja) projekta:

*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)

Voditelji projekta: Fabrizio Nesti (Feb 2016 - Nov 2016)

Kornelija Passek-Kumerički (Dec 2016 - Jan 2018)

Vinko Zlatić (Feb 2018 – Jan 2019)

Institucije partneri:

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

2008 – 2011

Sudionik na istraživačkom projektu:

Revealing Generalized Parton Distributions, DFG projekt;

Glavni istraživači: Prof. Dr. Maxim Polyakov (Uni. Bochum),
Dr. sc. Krešimir Kumerički (Uni. Zagreb);

Ostali lokalni sudionici: Dr.sc. Kornelija Passek-Kumerički

2005 – 2010

Sudionik na istraživačkom projektu:

QCD sum rules for exclusive decays of heavy hadrons;

Međuinstitutska suradnja (IRB i Uni Siegen) financirana od
Alexander von Humboldt fondacije;

Glavni istraživači: Dr. sc. Blaženka Melić

Prof. dr. Thomas Mannel (Uni. Siegen);

Ostali lokalni sudionici: Dr. sc. Goran Duplančić, Dr.sc. Kornelija Passek-Kumerički

2003 – 2006

Glavni istraživač na istraživačkom projektu::

Hard exclusive photo- and electroproduction of heavy quarkonium,

Austrijsko-hrvatski bilateralni projekt;

Glavni istraživači: Dr. sc. Kornelija Passek-Kumerički,

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

Ostali lokalni sudionici: Dr. sc. Blaženka Melić

2003 – 2005

Glavni istraživač na istraživačkom projektu:

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

DFG projekt (436 KRO 113/6/0-1);

Glavni istraživači: Prof. Dr. Klaus Goeke (Uni. Bochum),

Dr. sc. Kornelija Passek-Kumerički;

Ostali lokalni sudionici: Dr. sc. Goran Duplančić, Dr. sc. Bene Nižić

DOMAĆI ZNANSTVENI PROJEKTI

(VOĐENJE I SUDJELOVANJE)

2020 - (2024)

Voditelj projekta:

Razotkrivanje strukture hadrona pomoću tvrdih ekskluzivnih procesa (REVESTRUCTURE)

HRZZ projekt IP-2019-04-9709

Istraživači: Dr. sc. Goran Duplančić, Dr.sc. Krešimir Kumerički, Dr.sc. Lech Szymanowski

2014 - 2018

Sudionik na istraživačkom projektu:

Physics of the Standard Model and Beyond; HRZZ projekt (HrZZ 5169)

Voditelj projekta: Dr. sc. Blaženka Melić

2007 – 2013

Sudionik na istraživačkom projektu:

Fundamental interactions in elementary particle physics and cosmology;

MZOŠ projekt (098-0982930-2864)

Voditelj projekta: Dr. sc. Branko Guberina (2007-2011),

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

2001 – 2006

Sudionik na istraživačkom projektu:

Fundamental interactions in elementary particle physics and cosmology;

MZT projekt (0098002)

Voditelj projekta: Dr. sc. Branko Guberina

1998 – 2000

Voditelj projekta:

Ekskluzivni procesi u kvantnoj kromodinamici; poticajni projekt za mlade znanstvenike,

MZT projekt (098463)

1996 – 2001

Sudionik na istraživačkom projektu:

Theoretical research of elementary particle properties; MZT projekt (00980102)

Voditelj projekta: Dr. sc. Branko Guberina

1994 – 1996

Sudionik na istraživačkom projektu:

Theoretical physics of fundamental interactions; MZT projekt (1-03-199, P009801)

Voditelj projekta: Dr. sc. Nikola Zovko, Dr. sc. Branko Guberina

ORGANIZACIJA DOMAĆIH I MEĐUNARODNIH ZNANSTVENIH DOGAĐANJA

- 2018 član Organizacijskog odbora međunarodnog skupa
"Getting to Grips with QCD-Summer Edition",
Primošten, Hrvatska, 18-22 September 2018
- 2018 član Organizacijskog odbora međunarodne škole
"QCD meets precision",
LPT Orsay, France, 18-22 June 2018
- 2018 član Organizacijskog odbora međunarodnog skupa
"Getting to Grips with QCD",
Paris, France, 4-6 April 2018
- 2016 član Organizacijskog odbora međunarodnog skupa
ACHT 2016, "Non-perturbative aspects of Quantum Field Theory",
Čakovec, Croatia, 5-7 October 2016
- 2016 član Organizacijskog odbora međunarodne škole
"Dense systems in QCD at asymptotical energies",
LPT Orsay, France, 20 June-1 July 2016
- 2014 ko-predsjedavajući (co-chair) međunarodnog skupa
International Workshop on Diffraction in High-Energy Physics
"Diffraction 2014", Primošten, 10.-16.09.2014.
- 2009 član Organizacijskog odbora međunarodnog skupa
"Progress and Challenges in Particle Physics",
Primošten, 29.09. - 03.10. 2009
- 2001 član Organizacijskog odbora međunarodnog skupa
8th Adriatic Meeting "Particle Physics in the new millenium",
Dubrovnik, 4-14.09.2001

ČLANSTVA U ZNANSTVENIM ORGANIZACIJAMA

Član Hrvatskog fizikalnog društva

NASTAVA

- 2015 - 2017
vježbe iz Kvantne fizike, PMF, Sveučilište u Zagrebu
- 2006 – 2007 (zimski semestar)
vježbe iz *Math. Ergänzugen in der Physik*, Uni. Regensburg, Germany
- 2005 – 2006 (ljetni semestar)
vježbe iz *Struktur der Materie(III)*, Uni. Regensburg, Germany

RAD S MLADIM ZNANSTVENICIMA

2020 - : mentor doktoranda (HrZZ projekt DOK-2020-01-9883)

2010-2012: suradnja s doktorandom T. Lautenschlaeger (Uni. Regensburg, Germany); objavljen zajednički članak (D. Mueller, T. Lautenschlaeger, K. Passek-Kumericki, A. Schaefer, Nucl. Phys. B884 (2014) 438-546); doktorska disertacija T. Lautenschlaeger 2014.

2006-2008: suradnja s doktorandom G. Peters (Uni. Regensburg, Germany); objavljen zajednički članak (K. Passek-Kumerički, G. Peters, Phys. Rev. D78 (2008) 033009); G. Peters obranio doktorsku disertaciju u srpnju 2008.

DRUGE ZNANSTVENE DJELATNOSTI

Referiranje za Fizika B, Eur.Phys.J C

Ocjnjivanje HRZZ projekata

Ocjnjivanje projektnih prijava za EC HORIZON natječaje

RAD NA RAČUNALU

Operacioni sistemi: Unix (Linux), MS Windows

Programiranje: Fortran

Software: Mathematica, MS Office

Članci u CC časopisima

- [1] P. Kroll, K. Passek-Kumericki, "Wide-angle photoproduction of the η' -meson and its gluon content", Phys. Rev. D105 (2022)034005, [[arXiv: 2111.08965 \[hep-ph\]](#)].
- [2] P. Kroll, K. Passek-Kumericki, "Wide-angle photo- and electroproduction of pions to twist-3 accuracy", Phys.Rev.D 104 (2021) 5, 054040 [[arXiv: 2107.04544 \[hep-ph\]](#)].
- [3] 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 \[hep-ph\]](#)].
- [4] 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 \[hep-ph\]](#)].
- [5] P. Kroll, K. Passek-Kumericki, "Twist-3 contributions to wide-angle photoproduction of pions", Phys. Rev. D97 (2018) 074023 [[arXiv:1802.06597\[hep-ph\]](#)].
- [6] 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\[hep-ph\]](#)].
- [7] 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\[hep-ph\]](#)].
- [8] Peter Kroll, Kornelija Passek-Kumericki, "The η (η') gamma transition form factor and the gluon-gluon distribution amplitude", J.Phys. G40 (2013) 075005, [[arXiv:1206.4870\[hep-ph\]](#)].
- [9] 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\[hep-ph\]](#)].
- [10] Kresimir Kumericki, Dieter Mueller, Kornelija 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 \[hep-ph\]](#)].
- [11] 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](#)].
- [12] 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](#)].
- [13] Blazenka Melic, Kornelija Passek-Kumericki, Josip Trampetic "K \rightarrow pi gamma decay and space-time noncommutativity", Phys.Rev.D72 (2005) 057502 [[arXiv:hep-ph/0507231](#)].
- [14] Blazenka Melic, Kornelija 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](#)].
- [15] Blazenka Melic, Kornelija 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](#)].
- [16] Blazenka Melic, Kornelija 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](#)].
- [17] 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](#)].
- [18] 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](#)].
- [19] 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](#)].
- [20] Peter Kroll, Kornelija 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](#)].
- [21] 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](#)].
- [22] 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](#)].

- [23] 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](#)].
- [24] 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](#)].

Članci u ostalim časopisima

- [25] 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 \[hep-ph\]](#)].
- [26] K. Passek-Kumericki, "Hard exclusive reactions and the two-gluon components of eta and eta' mesons", Fizika B13 (2004) 513-522 [[arXiv:hep-ph/0311039](#)].
- [27] 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](#)].

ČLANCI U ZBORNICIMA

1. K. Passek-Kumericki, "On wide-angle photo- and electroproduction of pions to twist-3 accuracy", to appear in Suplemento de la Revista Mexicana de Fisica, prepared for 19th International Conference on Hadron Spectroscopy and Structure in memoriam Simon Eidelman (HADRON 2021), Mexico City, Mexico (online), 26-31 July 2021 [[arXiv:2203.12334](#)].
2. G. Duplancic, K. Passek-Kumericki, B. Pire, L. Szymanowski, S. Wallon, "Probing Generalized Parton Distributions through the photoproduction of a $\gamma\pi$ pair", Acta Phys.Polon.Supp. 12 (2019) 4, 855, [[arXiv:1812.09307 \[hep-ph\]](#)].
3. 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\[hep-ph\]](#)].
4. 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 \[hep-ph\]](#)].
5. 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.
6. 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 \[hep-ph\]](#)].
7. 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 \[hep-ph\]](#)].
8. 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 \[hep-ph\]](#)].
9. 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](#)].
10. 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](#)].
11. K. Passek, "Leading-twist two gluon distribution amplitude and exclusive processes involving eta and eta' 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](https://arxiv.org/abs/hep-ph/0210079)].

12. B. Melic, B. Nizic, K. Passek, "BLM scale for the pion transition form factor", [arXiv:hep-ph/0210080](https://arxiv.org/abs/hep-ph/0210080), 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].
13. 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](https://arxiv.org/abs/hep-ph/9908510)].

UREDNIČKE KNJIGE

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, AIP Conf. Proc 1654, 2015.

PREDAVANJA

Pozvana predavanja na međunarodnim znanstvenim skupovima

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-Harareus Physics School Diffractive and electromagnetic processes at high energies, Bad Honnef, Germany, 17-21 August 2015.
3. K. Passek-Kumericki, "[GPDs from DVCS at LO 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.

Ostala predavanja (poster) na međunarodnim znanstvenim skupovima

1. K. Passek-Kumericki, "[On wide-angle photo- and electroproduction of pions to twist-3 accuracy](#)", talk given at HADRON 2021, 19th International Conference on Hadron Spectroscopy and Structure in memoriam Simon Eidelman, Mexico City (Mexico), 26-31 July 2021 (online).
2. K. Passek-Kumericki, "[Discussing the light-meson DAs](#)", talk given at the workshop "Light-cone Distribution Amplitudes of Hadrons in QCD and their Applications", Mainz Institute for Theoretical Physics, Johannes Gutenberg University, Germany, 13-24 January 2020.
3. 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.
4. 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 .
5. 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 .

6. 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 .
7. 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 .
8. 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.
9. 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.
10. 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.
11. 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.
12. K. Passek, "*BLM scale for the pion transition form factor*", talk given at the 8th Adriatic Meeting, Dubrovnik, Croatia, 4-14 September 2001.
13. 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.
14. 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.
15. 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.
16. 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.
17. 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.

(Pozvana) predavanja na stranim institucijama

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