CURRICULUM VITAE

Date: July 18, 2021

Full name:	Vladimirov Alexey	
Date and place of birth	2 th November 1983 Irkutsk, Russia	
Current residence:	Germany	
Contact Address:	Institut für Theoretische Physik, Universität Regensburg, D-93040 Regensburg, Germany	
E-mail:	alexey.vladimirov@physik.uni-regensburg.de vladimirov.aleksey@googlemail.com	
Phone:	$+49 \ 941 \ 943-2003$	
Home page:	https://avladimirov.net/	
EDUCATION & DI	EGREES	
Ph.D. in Physics Ruhr University, Bo	with Summa cum laude ochum, Germany	Dec. 2010
Thesis title: Infrare Supervisor: Prof. D	ed logarithms in Effective field Theories. Dr. M.V. Polyakov	
Diploma in Phys Irkutsk State Unive	ics with Summa cum laude ersity, Irkutsk, Russia	Jun. 2006
Diploma (Master Joint Institute for 1	•) student Nuclear Research, Dubna, Russia	Nov. 2005 - May 2006
Diploma title: ERB order. Supervisor: Dr. S.V	BL and DGLAP evolution of transversely polarized parton d 7. Mikhailov	istributions at two-loop
Undergraduate s Irkutsk State Unive	tudent ersity, Irkutsk, Russia	Sep. 2001 -Jun. 2005
Specialization: Qua Term paper: Spatia	antum Field Theory, Particle Physics, High Energy Physics. al description of hard processes on the $SO(2, 1)$ -group.	

LINGUISTIC SKILLS

Russian:	mother tongue
English:	C1 (self-assessment)
German:	A2-B1 (self-assessment)

CURRENT POSITION

Position:	Akademischer Rat auf Zeit (fixed term lecturer)
Employer:	Universität Regensburg, Germany
Start/End date	1. Sep. 2015 - 31 Oct. 2022
Contact Address:	Lehrstuhl Braun, Fakultät Physik Universität Regensburg, D-93040 Regensburg, Germany
Job description:	Research, teaching (5 hours/week), student advisory

EMPLOYMENT HISTORY

Lund University, Sweden Post.Doc. position at the Department of Astronomy and Theoretical Physics	May 2013 - Jul.2015
Ruhr-University, Bochum, Germany Post.Doc. position at the Institute for Theoretical Physics II	Jan. 2011 - Apr.2013
Ruhr University, Bochum, Germany PhD student at the Institute for Theoretical Physics II, Supervisor: Prof. Dr. M.V. Polyakov	Sep. 2008 - Dec. 2010
Joint Institute for Nuclear Research, Dubna, Russia PhD student (aspirant) at the Educational Center of the Joint Institute for Nuclear Research Supervisor: Prof. Dr. A.V. Efremov	Sep. 2006 - Sep. 2008

RESEARCH FUNDING

•	Deutsche Forschungsgemeinschaft (DFG) research unit (FOR 2926)
	Title: "Next Generation Perturbative QCD for Hadron Structure: Preparing for the Electron-Ion
	Collider"
	Status: Granted, (Oct.2019-Oct.2022).
	Role: Principal investigator (PI), the scientific leader of project 4 "Das TransversalimpulsSpecrum
	von semi-inklusiven Reaktionen" (project number: 430824754)
	Amount of funding: total: $2M. \in$;
	personal part: 1 postdoc position + 51 400 \in (= 285 100 \in for 3 years).
	Spoken person: V.Braun (Regensburg University)
	Role in preparation of funding applications: The author and the presenter of the sub-project
	4, the co-author of the sub-project 3.
•	PRACE project (call 17)
	Title: "Scale dependence of TMDs"
	Status: Granted 44 M core hours on SuperMUC (Oct.2018-May 2021).
	Role: The leader of theory development
	Role in preparation of funding applications: Author of the project.
•	Deutsche Forschungsgemeinschaft (DFG) individual research grants (programme 2017)
	Title: "Theory and phenomenology of Polarized Transverse Momentum distributions with pQCD".

Status: Excellently reviewed. Not-granted due to fund restrictions.

Role in preparation of funding applications: The author of the project

LEADERSHIP (CURRENTLY)

- Deutsche Forschungsgemeinschaft (DFG) research unit (FOR 2926): principle investigator (PI) of project 4 and 3B.
- Regensburg lattice group: the leading theoretician of the group "Scale dependence of transverse momentum distributions from QCD lattice".

AWARDS

• "Garry McCartor Award", May 22 2013, granted by ILCAC (the International Light Cone Advisory Committee)

COMMUNITY SERVICE

- **Convener of the working group** "Hadron semi-inclusive reaction" for EIC Yellow Report, particular responsibility for "Nucleon transverse-momentum structure" program (currently).
- **Guest editor** for the Special Issue "Transverse Momentum Dependent Observables from Low to High Energy: Factorization, Evolution, and Global Analyses" published in Advances in High Energy Physics, vol. 2019 (24 Jun 2019).
- Organizer of "semi-inclusive reaction" session at the EIC IECUG meetings during 2020.
- A member of " p_T /W" working group at LHC, and TMDlib working group.
- Referee for Journal of High Energy Physics (JHEP), Nuclear Physics B, Physical Review D and Physical Review Letter.

SCIENTIFIC AND SOCIETAL IMPACT OF RESEARCH

Publication summary (according to inspire database):

69 publications in total
48 in peer-reviewed journals
9 (peer-review) articles are single-authored
4 publications in Phys.Rev.Lett. (2 single-authored)
h-index = 21

Merits related to the production and distribution of research results and research data:

- The author and main developer of artemide package (FORTRAN, Python) for phenomenology of transverse momentum dependent distributions. web-page: https://teorica.fis.ucm.es/artemide/ repository: https://github.com/VladimirovAlexey/artemide-public repository(dev): https://github.com/VladimirovAlexey/artemide-development
- The author of etaDA code (FORTRAN) for analysis of $\gamma^* \gamma^* \rightarrow \eta(\eta')$ web-page: http://avladimirov.net/index.php/projects/extra-materials
- The author of SimpleGroups package (*Mathematica*) for group-theory calculus (currently not supported) web-page: http://avladimirov.net/index.php/projects/extra-materials

Teaching experience

SUPERVISION

Felix Rein master student Topic: NLO matching for Boer-Mulders function Supervisory role: Supervisor Place: University Regensburg	currently
Malin Horstmann master student Topic: Single-spin asymmetries in the W/Z production Supervisory role: Supervisor Place: University Regensburg	currently
Marcin Bury postdoc Topic: Phenomenology of TMD distributions (Sivers function, estimation of PDF Place: University Regensburg	2020-2021 ' uncertainty)
Valentin Moos master student Topic: Matching of Pretzelocity-distribution at small values of <i>b</i> Supervisory role: Supervisor Place: University Regensburg	2020
Hengameh Bagherian student of MIT MISTI program Topic: Non-perturbative definition of rapidity anomalous dimension Supervisory role: Supervisor Place: University Regensburg	2019
Valentin Moos bachelor student Topic: Study of truncation error in TMD evolution Supervisory role: Supervisor Place: University Regensburg	2018
Victor Svensson master student Topic: Generating functional for web-diagrams at NNLO Supervisory role: Main supervisor Place: Lund University	2014 - 2015
Julia Koschinski Ph.D.Student Topic: Resummation of logarithms in low energy effective field theories. Supervisory role: Supervisor Place: Ruhr-University, Bochum	2010 - 2011
Julia Koschinski master student Topic: Perturbative corrections in low energy effective field theories using unitari Supervisory role: Supervisor Place: Ruhr-University, Bochum	<i>2010 - 2011</i> ty and analyticity.
LIST OF GIVEN COURSES	

• Regensburg University: Course of Quantum field theory III Exercises for Structure of Matter III

summer semester 2021 winter semester 2020-2021

Exercises for Quantum Mechanics I	summer semester 2020
Exercises for Structure of Matter III	winter semester 2019-2020
Exercises for Classical Mechanics	summer semester 2019
Exercises for Structure of Matter III	winter semester 2018-2019
Exercises for Classical Mechanics	summer semester 2018
Exercises for Structure of Matter III	winter semester 2017-2018
Exercises for Quantum Field Theory I	summer semester 2017
Exercises (and lectures) for Quantum Field Theory II	winter semester 2016-2017
Exercises (and lectures) for Quantum Field Theory III	summer semester 2016
Exercises for Quantum Mechanics II	winter semester 2015-2016
 Lund University: Course of Quantum field theory (FYTN10) (lectures and exercises) Course of Quantum field theory (FYTN10) (lectures and exercises) 	winter semester 2015 winter semester 2014
• Ruhr University:	
Exercises for Quantum Mechanics (for non-physics students)	winter semester 2012-2013
Exercises for General Relativity	winter semester 2011-2012
Exercises for Quantum Mechanics II	winter semester 2010-2011
Exercises for Calculus	summer semester 2010
Exercises for Advanced Theoretical Mechanics	winter semester 2008-2009

INVITED COURSES

• Lecture course "Modern quantum field theory" SA-CERN summer school 2018: <i>Physics of the LHC</i> Place: University of Cape Town, South Africa	26-30 Nov.	2018
• Lecture course "Group theory and particle physics" Place: Irkutsk State University	March,	2013
• Lecture course "Methods of Modern Quantum Chromodynamics" 10th Baikal Summer School on Physics of Elementary Particles and Astrophysic Place: Bolshie Koty, Russia	July, ics	2010

List of publications

10 Most important publication have highlighted numbers

A: PEER-REVIEWED SCIENTIFIC ARTICLES

- 1. M. Schlemmer, A. Vladimirov, C. Zimmermann, M. Engelhardt and A. Schäfer, "Determination of the Collins-Soper Kernel from Lattice QCD," [arXiv:2103.16991 [hep-lat]].
- 2. V. M. Braun, Y. Ji and A. Vladimirov, "QCD factorization for twist-three axial-vector parton quasidistributions," JHEP 05 (2021), 086 [arXiv:2103.12105 [hep-ph]].
- 3. N. A. Abdulov, A. Bacchetta, S. Baranov, A. B. Martinez, V. Bertone, C. Bissolotti, V. Candelise, L. I. Estevez Banos, M. Bury and P. L. S. Connor, et al. "TMDlib2 and TMDplotter: a platform for 3D hadron structure studies," [arXiv:2103.09741 [hep-ph]].
- 4. M. Bury, A. Prokudin and A. Vladimirov, "Extraction of the Sivers function from SIDIS, Drell-Yan, and W^{\pm}/Z boson production data with TMD evolution," JHEP 05 (2021), 151 [arXiv:2103.03270 [hep-ph]].
- 5. M. Bury, A. Prokudin and A. Vladimirov, "Extraction of the Sivers Function from SIDIS, Drell-Yan, and W^{\pm}/Z Data at Next-to-Next-to-Next-to Leading Order," Phys. Rev. Lett. **126** (2021) no.11, 112002 [arXiv:2012.05135 [hep-ph]].
- 6. V. Moos and A. Vladimirov, "Calculation of transverse momentum dependent distributions beyond the leading power," JHEP **12** (2020), 145 [arXiv:2008.01744 [hep-ph]].
- 7 A. A. Vladimirov,

"Self-contained definition of the Collins-Soper kernel," Phys. Rev. Lett. **125** (2020) no.19, 192002 [arXiv:2003.02288 [hep-ph]].

- 8. F. Hautmann, I. Scimemi and A. Vladimirov, "Non-perturbative contributions to vector-boson transverse momentum spectra in hadronic collisions," Phys. Lett. B 806 (2020), 135478 [arXiv:2002.12810 [hep-ph]].
- 9. A. A. Vladimirov and A. Schäfer, "Transverse momentum dependent factorization for lattice observables," Phys. Rev. D 101 (2020) no.7, 074517 [arXiv:2002.07527 [hep-ph]].

10 I. Scimemi and A. Vladimirov,

"Non-perturbative structure of semi-inclusive deep-inelastic and Drell-Yan scattering at small transverse momentum," JHEP 06 (2020), 137 [arXiv:1912.06532 [hep-ph]].

- 11. A. Vladimirov, "Pion-induced Drell-Yan processes within TMD factorization,"
 - JHEP **1910**, 090 (2019) [arXiv:1907.10356 [hep-ph]].
- 12. D. Gutierrez-Reves, S. Leal-Gomez, I. Scimemi and A. Vladimirov, "Linearly polarized gluons at next-to-next-to leading order and the Higgs transverse momentum distribution,"

JHEP **1911**, 121 (2019) [arXiv:1907.03780 [hep-ph]].

- 13. V. Bertone, I. Scimemi and A. Vladimirov, "Extraction of unpolarized quark transverse momentum dependent parton distributions from Drell-Yan/Z-boson production," JHEP 1906, 028 (2019) [arXiv:1902.08474 [hep-ph]].
- 14. Y. Ji and A. Vladimirov, "What can be learned from the transition form factor of $\gamma^* \gamma^* \to \eta'$: feasibility study," Eur. Phys. J. C **79**, no. 4, 319 (2019) [arXiv:1901.06960 [hep-ph]].
- I. Scimemi, A. Tarasov and A. Vladimirov,
 "Collinear matching for Sivers function at next-to-leading order,"
 JHEP 1905, 125 (2019) [arXiv:1901.04519 [hep-ph]].
- M. V. Polyakov, K. M. Semenov-Tian-Shansky, A. O. Smirnov and A. A. Vladimirov, *"Quasirenormalizable Quantum Field Theories,"* Theor. Math. Phys. 200, no. 2, 1176 (2019) [arXiv:1811.08449 [hep-th]].
- V. M. Braun, A. Vladimirov and J. H. Zhang, *"Power corrections and renormalons in parton quasidistributions,"* Phys. Rev. D 99, no. 1, 014013 (2019) [arXiv:1810.00048 [hep-ph]].
- D. Gutierrez-Reyes, I. Scimemi and A. Vladimirov, "Transverse momentum dependent transversely polarized distributions at next-to-next-to-leadingorder," JHEP 1807, 172 (2018) [arXiv:1805.07243 [hep-ph]].
- I. Scimemi and A. Vladimirov, *"Matching of transverse momentum dependent distributions at twist-3,"* Eur. Phys. J. C 78, no. 10, 802 (2018) [arXiv:1804.08148 [hep-ph]].
- I. Scimemi and A. Vladimirov,
 "Systematic analysis of double-scale evolution,"
 JHEP 1808, 003 (2018) [arXiv:1803.11089 [hep-ph]].
- 21. B. Ananthanarayan, S. Ghosh, A. Vladimirov and D. Wyler, "Leading Logarithms of the Two Point Function in Massless O(N) and SU(N) Models to any Order from Analyticity and Unitarity," Eur. Phys. J. A 54, no. 7, 123 (2018) [arXiv:1803.07013 [hep-ph]].
- A. Vladimirov, *"Structure of rapidity divergences in multi-parton scattering soft factors,"*JHEP 1804, 045 (2018) [arXiv:1707.07606 [hep-ph]].
- 23. I. Scimemi and A. Vladimirov,
 "Analysis of vector boson production within TMD factorization," Eur. Phys. J. C 78, no. 2, 89 (2018) [arXiv:1706.01473 [hep-ph]].
- D. Gutiérrez-Reyes, I. Scimemi and A. A. Vladimirov, "Twist-2 matching of transverse momentum dependent distributions," Phys. Lett. B 769, 84 (2017) [arXiv:1702.06558 [hep-ph]].
- A. A. Vladimirov, *"Correspondence between Soft and Rapidity Anomalous Dimensions,"*Phys. Rev. Lett. 118, no. 6, 062001 (2017) [arXiv:1610.05791 [hep-ph]].
- 26. I. Scimemi and A. Vladimirov, "Power corrections and renormalons in Transverse Momentum Distributions," JHEP 1703, 002 (2017) [arXiv:1609.06047 [hep-ph]].

- 27. A. Vladimirov, *"Soft factors for double parton scattering at NNLO,"*JHEP 1612, 038 (2016) [arXiv:1608.04920 [hep-ph]].
- 28 M. G. Echevarria, I. Scimemi and A. Vladimirov,
 "Unpolarized Transverse Momentum Dependent Parton Distribution and Fragmentation Functions at next-to-next-to-leading order,"
 JHEP 1609, 004 (2016) [arXiv:1604.07869 [hep-ph]].
- V. M. Braun, N. Kivel, M. Strohmaier and A. A. Vladimirov, *"Electroproduction of tensor mesons in QCD,"* JHEP 1606, 039 (2016) [arXiv:1603.09154 [hep-ph]].
- **30** M. G. Echevarria, I. Scimemi and A. Vladimirov, *"Universal transverse momentum dependent soft function at NNLO,"* Phys. Rev. D **93**, no. 5, 054004 (2016) [arXiv:1511.05590 [hep-ph]].
- M. G. Echevarria, I. Scimemi and A. Vladimirov, *"Transverse momentum dependent fragmentation function at next-to-next-to-leading order,"* Phys. Rev. D 93, no. 1, 011502 (2016)
 Erratum: [Phys. Rev. D 94, no. 9, 099904 (2016)] [arXiv:1509.06392 [hep-ph]].
- 32. A. A. Vladimirov,
 "Exponentiation for products of Wilson lines within the generating function approach," JHEP 1506, 120 (2015) [arXiv:1501.03316 [hep-th]].
- 33. J. Bijnens and A. A. Vladimirov, *"Leading logarithms for the nucleon mass,"*Nucl. Phys. B 891, 700 (2015) [arXiv:1409.6127 [hep-ph]].
- 34. A. A. Vladimirov,
 "Generating function for web diagrams,"
 Phys. Rev. D 90, no. 6, 066007 (2014) [arXiv:1406.6253 [hep-th]].
- 35. A. A. Vladimirov, *"TMD PDFs in the Laguerre polynomial basis,"*JHEP 1408, 089 (2014) [arXiv:1402.3182 [hep-ph]].
- 36. D. Diakonov, V. Petrov and A. A. Vladimirov,
 "A theory of baryon resonances at large N_c,"
 Phys. Rev. D 88, no. 7, 074030 (2013) [arXiv:1308.0947 [hep-ph]].
- 37. A. M. Moiseeva and A. A. Vladimirov,
 "On chiral corrections to nucleon GPD,"
 Eur. Phys. J. A 49, 23 (2013) [arXiv:1208.1714 [hep-ph]].
- A. A. Vladimirov and D. Diakonov, "Phase transitions in spinor quantum gravity on a lattice," Phys. Rev. D 86, 104019 (2012) [arXiv:1208.1254 [hep-th]].
- D. I. Diakonov, V. Y. Petrov and A. A. Vladimirov, "Baryon resonances in the relativistic mean field approach," Theor. Math. Phys. 170, 114 (2012)
- **40** D. Diakonov, A. G. Tumanov and A. A. Vladimirov, "Low-energy General Relativity with torsion: A Systematic derivative expansion," Phys. Rev. D **84**, 124042 (2011) [arXiv:1104.2432 [hep-th]].

- M. V. Polyakov and A. A. Vladimirov, *"Leading Infrared Logarithms for Sigma-Model with Fields on Arbitrary Riemann Manifold,"* Theor. Math. Phys. **169**, 1499 (2011) [arXiv:1012.4205 [hep-th]].
- J. Koschinski, M. V. Polyakov and A. A. Vladimirov, *"Leading Infrared Logarithms from Unitarity, Analyticity and Crossing,"* Phys. Rev. D 82, 014014 (2010) [arXiv:1004.2197 [hep-ph]].
- 43. N. A. Kivel, M. V. Polyakov and A. A. Vladimirov, "Leading Chiral Logarithms for Pion Form Factors to Arbitrary Number of Loops," JETP Lett. 89, 529 (2009) [arXiv:0904.3008 [hep-ph]].
- 44. S. V. Mikhailov and A. A. Vladimirov, *"ERBL and DGLAP kernels for transversity distributions. Two-loop calculations in covariant gauge,"*Phys. Lett. B 671, 111 (2009) [arXiv:0810.1647 [hep-ph]].
- **45** N. Kivel, M. V. Polyakov and A. Vladimirov, *"Chiral Logarithms in the Massless Limit Tamed,"* Phys. Rev. Lett. **101**, 262001 (2008) [arXiv:0809.3236 [hep-ph]].
- 46. N. Kivel, M. V. Polyakov and A. Vladimirov, "Large-N Summation of Chiral Logs for Generalized Parton Distributions," Phys. Rev. D 79, 014028 (2009) [arXiv:0809.2064 [hep-ph]].
- 47. O. N. Soldatenko, A. N. Vall and A. A. Vladimirov, "Unitarization of elastic amplitude on SO(mu)(2.1) group," Eur. Phys. J. A 38, 71 (2008) [arXiv:0805.2296 [hep-ph]].

B: NON-REFEREED SCIENTIFIC ARTICLES

- D. Gutierrez-Reyes, I. Scimemi and A. Vladimirov, "Twist-2 Transverse Momentum Distributions at Next-to-next-to-leading Order in QCD," Acta Phys. Polon. Supp. 12, no. 4, 849 (2019).
- D. G. Reyes, I. Scimemi and A. Vladimirov, "Twist-2 matching of transverse momentum dependent distributions at next-to-next-to-leadingorder in QCD," PoS SPIN 2018, 055 (2019).
- 3. A. Vladimirov, *"TMD evolution as a double-scale evolution,"*PoS SPIN 2018, 054 (2019).
- 4. S. Leal Gómez, D. Gutierrez-Reyes, I. Scimemi and A. Vladimirov, "Linearly polarized gluons Transverse Momentum Dependent Parton Distribution Function at NNLO in QCD," PoS DIS 2019, 183 (2019) [arXiv:1908.05924 [hep-ph]].
- D. Gutiérrez-Reyes, I. Scimemi and A. Vladimirov, "Twist-2 transverse momentum dependent distributions," PoS RADCOR 2017, 040 (2018).
- 6. A. Vladimirov,
 "Structure of transverse momentum dependent (TMD) distributions at NNLO,"
 PoS QCDEV 2016, 030 (2017).

- 7. A. A. Vladimirov, *"TMD Fragmentation Function at NNLO,"* PoS QCDEV 2015, 044 (2015).
- J. Bijnens, K. Kampf and A. Vladimirov, *"Leading logarithms for mesons and nucleons,"* PoS CD 15, 029 (2016) [arXiv:1509.07403 [hep-ph]].
- 9. A. A. Vladimirov and J. Bijnens, "Leading chiral logarithms for the nucleon mass," AIP Conf. Proc. 1701, no. 1, 040019 (2016) [arXiv:1501.03979 [hep-ph]].
- A. A. Vladimirov and D. Diakonov, "Diffeomorphism-invariant lattice actions," Phys. Part. Nucl. 45, no. 4, 800 (2014).
- 11. A. Vladimirov, *"TMDs in Laguerre polynomial basis,"*PoS DIS 2014, 034 (2014) [arXiv:1407.0965 [hep-ph]].
- A. A. Vladimirov and N. G. Stefanis, "Key features of the TMD soft-factor structure," Few Body Syst. 55, 297 (2014) [arXiv:1401.3663 [hep-ph]].
- A. V. Efremov and A. A. Vladimirov, *"Causality constraints on TMD PDF,"* arXiv:1306.3929 [hep-ph].
- 14. A. Moiseeva and A. A. Vladimirov, "Chiral Expansion of Nucleon PDF at $x m_{\pi}/M_N$," Few Body Syst. 55, 389 (2014) [arXiv:1311.3433 [hep-ph]].
- D. Diakonov, V. Petrov and A. A. Vladimirov, *"Baryon resonances at large N_c, or Quark Nuclear Physics,"* PoS QNP **2012**, 084 (2012) [arXiv:1207.3679 [hep-ph]].
- I. A. Perevalova, M. V. Polyakov, A. N. Vall and A. A. Vladimirov, "Chiral Inflation of the Pion Radius," arXiv:1105.4990 [hep-ph].
- 17. A. N. Vall, I. A. Perevalova, O. N. Soldatenko and A. A. Vladimirov, "Spatial description of the particle production region in elastic and quasi-elastic processes on the SO(mu)(2.1) group," Phys. Part. Nucl. 40, 1030 (2009).
- A. N. Vall, O. N. Soldatenko and A. A. Vladimirov, "Spatial structure of a particle collision region and its relationship with the angular distribution of a detectable particle," Russ. Phys. J. 51, 587 (2008) [Izv. Vuz. Fiz. 51N6, 33 (2008)].
- N. Bobrovskaya, A. N. Vall, M. V. Polyakov and A. A. Vladimirov, "Spatial image of reaction area from scattering. II. On connection between the differential crosssections in transverse momentum and in nearest approach parameter," arXiv:0709.3398 [hep-ph].
- M. V. Polyakov, O. N. Soldatenko, A. N. Vall and A. A. Vladimirov, "Spatial image of hadrons from scattering. I. SO(mu)(2.1) algebra formalism," arXiv:0708.2857 [hep-ph].

C: COMMUNITY PAPERS

- R. Abdul Khalek, A. Accardi, J. Adam, D. Adamiak, W. Akers, M. Albaladejo, A. Al-bataineh, M. G. Alexeev, F. Ameli and P. Antonioli, *et al.* "Science Requirements and Detector Concepts for the Electron-Ion Collider: EIC Yellow Report," [arXiv:2103.05419 [physics.ins-det]].
 Role: Convener and author of "Parton imagining in momentum space"-section.
- R. Angeles-Martinez et al., *"Transverse Momentum Dependent (TMD) parton distribution functions: status and prospects,"* Acta Phys. Polon. B 46, no. 12, 2501 (2015) [arXiv:1507.05267 [hep-ph]].

D: THESES

 A. A. Vladimirov,
 "Infrared logarithms in effective field theories," PhD thesis, Bochum, 2010

Conference participation

only last 5 years are presented

$\mathbf{2021}$

QCD evolution 2021, Los Angeles (*online*), May.2021 *Invited talk:* Sivers and Qiu-Sterman functions from SIDIS and Drell-Yan data

Workshop on from JLab to EIC, JLab (*online*), May.2021 *Plenary talk:* Extraction of TMD distributions from data

DIS 2021, Stony Brook (*online*), Apr.2021 Invited talk: N³LO extraction of the Sivers function from SIDIS, Drell-Yan, and W/Z data

World SCET 2021 (*online*), Apr.2021 Poster presentation: Twist decomposition for TMD operators

Moriond QCD, Moriond (*online*), Apr.2021 Invited talk: Extraction of Transverse momentum dependent distributions

Workshop on the Second interaction region at EIC, Miami (*online*), Mar.2021 Invited talk: TMD distributions & TMD evolution

2020

Resummation, evolution, factorization, 2020, Edinburgh (*online*), Dec.2020 *Invited talk:* Rapidity anomalous dimension: theory and practice

IWHSS, 2020, Triest (*online*), Nov.2020 *Invited talk:* Extraction of unpolarized TMDs from Drell-Yan and SIDIS data

Snowmass, 2021 (preliminary TMD session), *online*, Oct.2020 Invited talk: Status of TMD studies

LaMeT, 2020 (online), Sep.2020 Plenary talk: Transverse momentum dependent factorization for lattice observables

Workshop on Pion and Kaon Structure Functions at the EIC (*online*), Sep.2020 Invited talk: Pion-induced Drell-Yan and pion TMD distribution

Correlations in Partonic and Hadronic Interactions (CPHI-2020) CERN, Geneva, Feb.2020 *Invited talk:* Description of unpolarized Drell-Yan and SIDIS processes within TMD factorization

Workshop "Challenges of QCD EFTs" Madrid, Jan.2020 Invited talk: Collins-Soper kernel: non-perturbative studies

2019

Resummation, evolution, factorization, 2019, Pavia, Dec. 2019 Invited talk: Unpolarized TMD distributions and their evolution from DY and SIDIS data

MCEGs for future ep and eA facilities, Vienna, Nov.2019 Invited talk: TMD factorization and artemide

DSpin-2019, Dubna (Russia), Sep.2019 Invited talk: Transverse momentum dependent distributions in perturbation theory

XLVII International Meeting on Fundamental Physics (IMFP19), Aranjuez (Spain), Jun.2019 *Plenary talk:* Nucleon Tomography

DIS-2019, Torino, Apr.2019

Invited talk: Extraction of transverse momentum dependent parton distribution functions

$\boldsymbol{2018}$

Spin 2018, Ferrara (Italy), Sep.2018 *Invited talk:* TMD evolution as a double-scale evolution

QCD evolution 2018, Santa Fe (USA), May.2018 *Invited talk:* TMD evolution as a double-scale evolution

8th International conference on Physics Opportunities at an Electron-Ion-Collider (PO-ETIC8), Regensburg, Mar.2018

Invited talk: Transverse momentum dependent (TMD) factorization in perturbation theory

DPG meeting 2018, Bochum (Germany), Mar.2018 *Plenary talk:* Transverse momentum dependent (TMD) factorization: status and progress

2017

Resummation, evolution, factorization, 2017, Madrid, Nov.2017 *Plenary talk:* Extraction of unpolarized TMD PDFs at NNLO: analysis and result *Invited talk:* Geometrical structure of soft gluon radiation.

Spatial and Momentum Tomography of Hadrons and Nuclei, 2017, Seattle, Sep.2017 Invited talk: Extraction of unpolarized TMD PDFs at NNLO: analysis and result

Electron-Ion-Collider User group meeting, Trieste, Jul.2017 *Invited talk:* Limits and uncertainties of TMD factorization

2016

SFB-55 meeting, 2016, Regensburg, Oct.2016

 $\mathit{Invited talk:}$ Transverse momentum dependent (TMD) distributions: definition and pertubative consideration

QCD evolution, 2016, Amsterdam, Jun.2016 *Invited talk:* Transverse momentum dependent (TMD) distributions at NNLO

SCET, **2016**, Hamburg, Feb.2016 *Invited talk:* Structure of transverse momentum dependent (TMD) distributions at NNLO

SEMINARS

Temple University, *online*, May.2020 *Title:* QCD factorization for quasi-parton distributions at twist-three level

Parton branching collaboration, *online*, Apr.2021 *Title:* Collins-Soper kernel from evenT generators

Madrid University, *online*, Oct.2020 *Title:* Parton distributions with lattice QCD: how it works.

Regensburg University, *online*, Jun.2020 *Title:* Self-contained and non-perturbative definition of Collins-Soper kernel

Torino University, *online*, Jun.2020 *Title:* Generating function of web-diagrams: theory and applications Mainz University, Oct.2019 *Title:* Evolution of transverse momentum dependent distributions

Bern University, Sep.2019 *Title:* Evolution of transverse momentum dependent distributions

Regensburg University, Jun.2019 *Title:* Extraction of transverse momentum dependent parton distributions

Technical University Munchen (TUM), Feb.2019 *Title:* Renormalization theorem for rapidity divergences & rapidity anomalous dimension

Brookhaven National Laboratory (BNL), May 2018 *Title:* TMD evolution as a double-scale evolution

Regensburg University, May 2018 *Title:* TMD evolution as a double-scale evolution

Pavia University, Feb 2018 *Title:* Anatomy TMD evolution: solution ambiguity, ζ -prescription and all that

Higgs Centrum, Edinburgh, Jan.2018 *Title:* Structure of rapidity divergences in soft factors & rapidity renormalization theorem

Massachusetts Institute of Technology (MIT), Boston, Oct.2017 *Title:* Structure of rapidity divergences in soft factors & rapidity renormalization theorem

Regensburg University, May 2017 *Title:* Rapidity divergence renormalization theorem

DESY, Hamburg, Feb.2017 *Title:* Soft/rapidity anomalous dimensions correspondence & rapidity renormalization theorem

Rurh-University, Bochum, Dec.2016 *Title:* Soft/rapidity anomalous dimensions correspondence & rapidity renormalization theorem