

Informazioni personali

Cognome(i) / Nome(i)

Douplii, Stepan (nome di pubblicazione: **Steven Duplij**)

Nome in cirillico

Степан Анатольевич Дуплий

Indirizzo/i

48159 Münster, Germania

E-mail

sduplij@gmail.com | duplij@gmx.de

Autorizzazione al lavoro

Permesso di soggiorno permanente tedesco (Unbefristete Niederlassungserlaubnis)

Coniuge di cittadina italiana



Homepage: <https://www.uni-muenster.de/IT.StepanDouplii>

Occupazione desiderata / Settore professionale

Senior Scientist / Ricercatore in Crittografia, Quantum Computing, Strutture Algebriche, Fisica Matematica

Esperienza professionale

2025 – 2026

Visiting Research Fellow (Scientific Grant)

Yantai Research Institute, Harbin Engineering University, Harbin, Cina

- Ricerca in crittografia, quantum computing, strutture algebriche e elaborazione del segnale

2025 – presente

Affiliated Researcher (Hosting Agreement)

Center for Information Technology (CIT), Università di Münster, Germania

- Collaborazione in crittografia, quantum computing e fisica matematica

2019 – 2025

Ricercatore scientifico

Center of Information Technology (CIT), Universität Münster, Münster, Germania

- Ricerca in informazione quantistica, crittografia, strutture algebriche e modellizzazione matematica
- Partecipazione a progetti finanziati dall'ERC

2016

Docente di Matematica

Hochschule Bochum, Germania

2014 – 2016

Ricercatore scientifico

Mathematisches Institut, Universität Münster, Germania

2011 – 2012

Visiting Fulbright Scholar e Docente di Matematica

Rutgers University, Piscataway, USA

2000 – 2014

Ricercatore senior principale

Nuclear Physics Laboratory, Kharkov National University, Kharkov, Ucraina

2000 – presente

Membro della Collaborazione CMS

CERN, Ginevra, Svizzera

1997 – 2000

Ricercatore senior

Nuclear Physics Laboratory, Kharkov National University, Ucraina

1983 – 1997

Ricercatore

Nuclear Physics Laboratory, Kharkov State University, Ucraina

1978 – 1983

Ricercatore a tempo parziale

Radiophysics Laboratory, Kharkov State University, Ucraina

Istruzione e formazione

2002

Senior Research Fellow (status accademico)

Higher Certifying Commission, Kiev, Ucraina

1999

Abilitazione – Doctor Habilitatus in Fisica Teorica (Dottore in Scienze Fisiche e Matematiche)

Istituto Bogolyubov di Fisica Teorica, Kiev, Ucraina

- Tesi: “Semigroup Methods in Supersymmetric Theories of Elementary Particles”

1983

Dottorato – Candidate of Science in Fisica e Matematica

Kharkov State University, Ucraina

- Tesi: “Theoretical Investigation of Hard Processes in QCD”; Relatore: Prof. M.P. Rekalo

1978 – 1982

Corso post-laurea in Fisica Teorica

Kharkov State University

1974 – 1978

Laurea magistrale (M.Sc.) in Fisica Nucleare Teorica (con lode)

Department of Theoretical Physics, Kharkov State University

1994 – 1995

Corso speciale di tedesco (con lode)

Goethe-Institut, Mannheim, Germania

1973 – 1976

Corso speciale di inglese (con lode)

Kharkov State University

Competenze personali

Madrelingua/e

Russo, Ucraino

Altre lingue

Lingua	Comprensione	Parlato	Scritto	Livello
Inglese	C2	C2	C2	Padronanza
Tedesco	B2	B2	B1	Indipendente
Italiano	A2	A2	A1	Base

Livelli: A1/A2 Utente base – B1/B2 Utente indipendente – C1/C2 Utente avanzato (Quadro Comune Europeo di Riferimento)

Competenze comunicative

- Eccellenti capacità di comunicazione scritta e orale sviluppate in oltre 40 anni di collaborazione scientifica internazionale, presentazioni a conferenze e attività didattica
- Esperienza in ambienti multiculturali (Germania, USA, Cina, CERN)

Competenze organizzative e gestionali

- Organizzazione di workshop internazionali (NATO ARW 2000 come Partner Country Co-Director)
- Gestione editoriale di riviste scientifiche
- Supervisione di dottorandi e studenti di laurea magistrale

Competenze professionali

- Ricerca avanzata in crittografia, quantum computing, strutture algebriche poliadiche
- Modellizzazione matematica e elaborazione del segnale
- Scrittura scientifica e peer review per riviste internazionali di alto livello

Competenze digitali

- Programmazione: Perl, Mathematica, Maple, LaTeX, BibTeX, HTML
- Sistemi operativi: Windows, Unix, Linux
- Software: Microsoft Office, prodotti Adobe, Scientific WorkPlace, Photoshop, Dreamweaver

Ulteriori informazioni

Pubblicazioni

Autore di 212 pubblicazioni scientifiche, tra cui 9 monografie pubblicate da IOP Publishing, Springer, Kluwer e Nova. Articoli su Physical Review, Journal of Physics, Communications in Mathematical Physics, Journal of Mathematical Physics, Communications in Algebra, Semigroup Forum, Letters in Mathematical Physics e altre.

Libri selezionati:

- S. Duplij, R. Vogl – Innovative Quantum Computing, IOP Publishing, 2023

- S. Duplij – Polyadic Algebraic Structures, IOP Publishing, 2022 (461 S.)
- S. Duplij, W. Siegel, J. Bagger (Hrsg.) – Concise Encyclopedia of Supersymmetry, Kluwer/Springer, 2004/2005
- S. Duplij & J. Wess (Hrsg.) – Noncommutative Structures in Mathematics and Physics, Kluwer, 2001

Borse di studio e finanziamenti

- Borse Alexander von Humboldt (1994–1997, 2001, 2005–2006, 2008, 2010)
- Fulbright Scholar Program, Rutgers University (2011–2012)
- European Research Council Grant, Università di Münster (2015–2016)
- Scientific Grant, Harbin Engineering University, Cina (2025–2026)
- National Natural Science Foundation of China Grant (2001)

Affiliazioni

- American Physical Society, American Mathematical Society, European Physical Society
- International Association of Mathematical Physics, International Mathematical Union
- Alexander von Humboldt Club (Ucraina)
- Unione degli Scrittori Russi

Attività editoriale

- Editore di East European Journal of Physics (dal 2013)
- Ex editore del Journal della Kharkov National University (1999–2013)
- Revisore per Zentralblatt Mathematik, Modern Physics Letters A, Advances in Mathematical Physics, Symmetry e altri

Attività letteraria e musicale

- Scrittura di poesia e prosa — oltre 200 pubblicazioni su riviste letterarie professionali in inglese, tedesco, francese, spagnolo e altre lingue
- Autore di 14 libri letterari (disponibili su Amazon, Barnes & Noble, ecc.)
- Presentazioni e letture letterarie
- Suonare la chitarra e comporre canzoni
- Album audio: “Blitz” (1995), “Motifs of years” (1996), “Supermanifold of life” (2007), “Life-casino” (2026)
- Album MC: “Blitz” (GEMA, Berlino, 1996)

Media e attività pubblica

- Programmi televisivi e interviste presso gli studi TV di Kharkov
- Programma scientifico “Logos” — interviste alla radio centrale di Kharkov
- Articoli su S. Duplij pubblicati negli USA (SCOOP USA, Gazette, Library of Congress), in Germania e nella stampa ucraina
- Partecipazione a incontri e workshop dei borsisti Alexander von Humboldt

Allegati

- Pubblicazioni scientifiche: [https://www.uni-muenster.de/IT.StepanDouplii/Duplij_publications-\(1980-2026\)-full.pdf](https://www.uni-muenster.de/IT.StepanDouplii/Duplij_publications-(1980-2026)-full.pdf)
- Sintesi della ricerca: https://www.uni-muenster.de/IT.StepanDouplii/Duplij_SciRes2026.pdf
- Pubblicazioni letterarie: <https://www.uni-muenster.de/IT.StepanDouplii/old/pub-lit.htm>
- Sito musicale: <https://www.uni-muenster.de/IT.StepanDouplii/old/music>

Münster, 2026

Attestato intermedio di lavoro

(Zwischenzeugnis)

Il Sig. Stepan Douplii è impiegato dal 1° giugno 2019 presso il Center for Information Technology (CIT) dell'Università di Münster in qualità di ricercatore associato nel progetto di ricerca su Innovative and Atypical Quantum Computing.

Il CIT, con circa 160 dipendenti, è il centro centrale di servizi e competenze dell'Università di Münster per tutte le questioni relative all'IT. Il focus della sua attività è l'indagine sui possibili campi di applicazione nonché lo sviluppo di concetti di impiego dei computer quantistici nella ricerca scientifica. Particolare enfasi è posta sulla rilevazione dello stato dell'arte nell'applicazione di concetti matematici innovativi per i computer quantistici.

Nell'ambito di questa attività, il Sig. Douplii è responsabile dei seguenti compiti:

- Analisi ed esplorazione della letteratura sullo stato della ricerca nel campo del quantum computing
- Sviluppo di autonomi nuovi approcci di ricerca per computer quantistici basati su metodi matematici innovativi non standard
- Pubblicazione dei risultati del lavoro di ricerca in articoli specialistici e libri
- Applicazione della sua solida esperienza pluriennale in fisica matematica nonché stretta e apprezzativa rete di contatti con esperti riconosciuti a livello internazionale

Il Sig. Douplii possiede eccellenti e, anche in ambiti periferici, conoscenze specialistiche molto approfondite, che applica sempre abilmente a vantaggio della nostra istituzione. In qualità di esperto riconosciuto, è in continuo scambio con altri esperti e organizza inoltre autonomamente misure di formazione e aggiornamento professionale nell'ambito delle sue attività di ricerca.

Grazie alla sua ottima capacità di comprensione, è in ogni momento in grado di valutare correttamente anche situazioni difficili in modo immediato e di trovare rapidamente soluzioni molto buone. Il Sig. Douplii dimostra sempre un elevato grado di iniziativa personale e si identifica pienamente con i suoi compiti e con la nostra istituzione, impressionando anche attraverso il suo grande entusiasmo per il lavoro.

Si può sempre fare affidamento sul suo stile di lavoro altamente affidabile, molto prudente ed estremamente coscienzioso, anche in situazioni difficili. Svolge tutti i compiti sempre in modo completamente autonomo, estremamente accurato e ben pianificato e ponderato. Agisce sempre con calma, considerazione e orientamento agli obiettivi, e con il massimo grado di precisione. In questo, impressiona costantemente in modo particolarmente positivo sia in termini qualitativi che quantitativi.

L'affidabilità e l'assoluta attendibilità caratterizzano in ogni momento lo stile di lavoro del Sig. Douplii. Anche per i problemi più difficili trova soluzioni altamente efficaci, che implementa sempre con successo nella pratica e con le quali ottiene sempre eccellenti risultati lavorativi.

Il Sig. Douplii si distingue per la pubblicazione di numerosi articoli specialistici nonché di due libri scientifici intitolati Polyadic Algebraic Structures e Innovative Quantum Computing. Questi risultati testimoniano il suo straordinario impegno e il massimo grado di identificazione con il proprio lavoro. La sua disponibilità alla prestazione e la sua eccellenza professionale meritano particolare risalto.

È altamente apprezzato da tutti per il suo carattere costantemente amichevole ed equilibrato. È sempre disponibile e cortese e, se necessario, subordina gli interessi personali. Il suo comportamento nei confronti di superiori, colleghi e clienti è in ogni momento esemplare.

Il presente attestato intermedio è rilasciato su richiesta del Sig. Douplii. Lo ringraziamo per le prestazioni costantemente molto buone rese in passato e guardiamo con piacere a una continuazione positiva del rapporto di lavoro.

Münster, 4 dicembre 2024

Prof. Dr. Raimund Vogl

Direttore del CIT

Universität Münster

Center for Information Technology

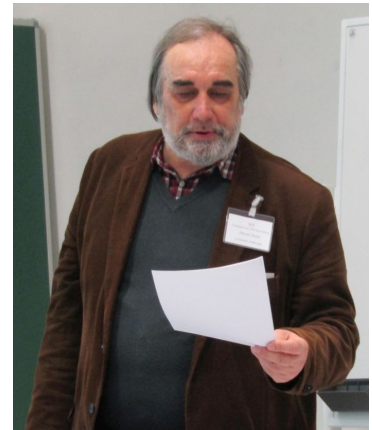
CURRICULUM VITAE

Stepan Douplii

Name: **Stepan Douplii**

Publishing name: **Steven Duplij**

Cyrillic name: **Степан Анатольевич Дуплий**



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sduplij@gmail.com

Homepage:

<https://www.uni-muenster.de/IT.StepanDouplii>

SUMMARY

Senior Scientist with more than forty years of research experience in cryptography, quantum computing, algebraic structures, coding-related mathematics, and mathematical physics.

Author of 212 scientific publications, including nine monographs with IOP Publishing, Springer, Kluwer, and Nova.

Extensive background in polyadic algebraic systems, quantum information, mathematical modeling, and signal processing.

Long-term research experience in Germany (WWU Münster, CIT; ERC projects; Alexander von Humboldt Fellowships).

Strong international profile: USA (Fulbright), China (Visiting Research Fellow), CERN (CMS Collaboration).

Fluent in English, strong German, native Russian/Ukrainian, spoken Italian.

WORK AUTHORIZATION

German PR (Unbefristete Niederlassungserlaubnis) | spouse of an Italian citizen.

DEGREES

2002 The academic status of Senior Research Fellow is given by Higher Certifying Commission, Kiev, Ukraine

1999 Habilitation Thesis: "*Semigroup Methods in Supersymmetric Theories of Elementary Particles*", Bogolyubov Institute of Theoretical Physics, Kiev, Ukraine,

Doctor Habilitatus in Theoretical Physics

(Doctor of Science in Physics and Mathematics)

1983 Ph.D. Thesis: "*Theoretical Investigation of Hard Processes in QCD*";

1978-1982 Post Graduate Course in Theoretical Physics, Kharkov State University;

PhD (Candidate of Science in Physics and Mathematics); adviser M.P. Rekalov

EDUCATION

- 1994-1995** Special German Language Course, Goethe Institute, Mannheim, Germany;
Distinguished diploma
- 1974-1978** Department of Theoretical Physics, Kharkov State University;
The Distinguished Diploma in Theoretical Nuclear Physics - M.Sc.
- 1973-1976** Special English Language Course, Kharkov State University;
The Distinguished Diploma
- 1971-1973** Department of Theoretical Radiophysics, Kharkov State University

WORK EXPERIENCE

- 2025-2026** Visiting Research Fellow (Scientific Grant), Yantai Research Institute, Harbin Engineering University, Harbin, China
Research in cryptography, quantum computing, algebraic structures, and signal processing.
- 2025–present** Affiliated Researcher (Hosting Agreement), Center for Information Technology (CIT), University of Münster, Germany
Continued collaboration in cryptography, quantum computing, and mathematical physics.
- 2019-2025** Scientific Researcher at the Center of Information Technology (CIT), Universität Münster, Münster, Germany
Research in quantum information, cryptography, algebraic structures, and mathematical modeling; participation in ERC-funded projects.
- 2016** Lecturer in Mathematics, Bochum University of Applied Sciences, Germany
- 2014-2016** Scientific Researcher at the Mathematisches Institut, Universität Münster, Münster, Germany
- 2012** Lecturer in Mathematics, Rutgers University, Piscataway, USA
- 2011-2012** Visiting Fulbright Scholar, Rutgers University, USA
- 2000-2014** Lead Senior Staff Researcher at the Nuclear Physics Laboratory, Kharkov National University, Kharkov, Ukraine
- 2000-now** CMS collaboration, CERN, Geneva
- 1997-2000** Senior Staff Researcher at the Nuclear Physics Laboratory, Kharkov National University, Kharkov, Ukraine
- 1983-1997** Staff Researcher at the Nuclear Physics Laboratory, Kharkov State University, Kharkov, Ukraine
- 1983-1992** Staff Researcher at the Nuclear Physics Laboratory, Kharkov State University, Kharkov, Ukraine
- 1978-1983** Half-time Researcher at the Radiophysics Laboratory, Kharkov State University, Kharkov, Ukraine

FELLOWSHIPS & GRANTS

- 2025-2026** Scientific Grant, Yantai Research Institute, Harbin Engineering University, Harbin, China (Host: Qiang Guo)

2015-2016 European Research Council Grant at University of Münster (Host: J. Cuntz)
2010 Alexander von Humboldt Fellowship at University of Münster (Host: J. Cuntz)
2011-2012 Fulbright Scholar Program at the Rutgers University,
 Piscataway, USA (Host: G. A. Goldin)
2010 Alexander von Humboldt Fellowship at University of Münster (Host: J. Cuntz)
2008 Alexander von Humboldt Fellowship at University of Köln (Host: M. Zirnbauer)
2007 American Physical Society Travel Grant at John Hopkins University
 (Host: J. Bagger)
2005-2006 Alexander von Humboldt Fellowship, University of Münster (Host: J. Cuntz)
2004 Simons Foundation Travel Grant (Stony Brook, USA)
2001 Alexander von Humboldt Fellowship at Max-Planck-Institute for Dynamics
 and Self-Organization, Göttingen (Host: F. Müller-Hoissen)
2001 National Natural Science Foundation of China Grant at Zhejiang University,
 Hangzhou (Host: Fang Li)
1994-1997 Alexander von Humboldt Fellowship at the Physics Department,
 University of Kaiserslautern, Kaiserslautern, Germany (Host: W. Rühl)

SCIENTIFIC PUBLICATIONS

In total: **212** publications, among them 9 books and 203 articles in
*Physical Review, Journal of Physics, Communications in Mathematical Physics, Journal
 of Mathematical Physics, Communications in Algebra, Semigroup Forum, Letters in
 Mathematical Physics, Theoretical and Mathematical Physics; Journal of Lie Theory,
 International Journal of Geometric Methods in Modern Physics, Linear Algebra and
 Applications, etc.* Full lists are on my [homepage](https://www.uni-muenster.de/IT.StepanDouplii/Duplij_publications-(1980-2026)-full.pdf)
[https://www.uni-muenster.de/IT.StepanDouplii/Duplij_publications-\(1980-2026\)-full.pdf](https://www.uni-muenster.de/IT.StepanDouplii/Duplij_publications-(1980-2026)-full.pdf)

Scientific Books (available on [Amazon](#), [Barnes&Noble](#), etc.):

1. S. Duplij, R. Vogl, “*Innovative Quantum Computing*”, IOP Publ., Bristol-London, 2023, 178 pp.
2. S. Duplij, “*Polyadic Algebraic Structures*”, IOP Publ., Bristol-London, 2022, 461 pp.
3. S. Duplij and M.L. Walker, eds, “*Selected Topics in Gravity, Field Theory and Quantum Mechanics*”, MDPI Books, Basel, 2022, 348 pp.
4. S. Duplij, “*Exotic Algebraic and Geometric Structures in Theoretical Physics*”, Nova Publishers, New York, 2018, 410 pp.
5. S. Duplij, “*Supersymmetry, Quantum Groups, Multigravity and Singular Theories*”, Central West Publ., Australia, 2018, 254 pp.
6. S. Duplij, W. Siegel, and J. Bagger, eds., “*Concise Encyclopedia of Supersymmetry And Noncommutative Structures In Mathematics And Physics*”, Kluwer Academic Publishers, Dordrecht-Boston-London, 2004, 584 pp. (Second printing, Springer Science and Business Media, Berlin- New York-Heidelberg, 2005).
7. S. Duplij and J. Wess, eds., “*Noncommutative Structures in Mathematics and Physics*”, Kluwer, Dordrecht, 2001, 493 pp.
8. S. Duplij and V. G. Zima, eds., “*Supersymmetric Structures in Mathematics and Physics*”,

UkrINTI, Kiev, 2000, 262 pp.

9. S. Duplij “*Semisupermanifolds and Semigroups*”, Kharkov: Krok, 2000, 220 pp. (Second Print by CreateSpace Publ.: Charleston, 2013).

EDITOR EXPERIENCE

1999-2013 Editor of *Kharkov National University Journal* (Vestnik KSU), ser. Nuclei, Particles and Fields

2013-now Editor of *East European Journal of Physics*

2018 Invited Editor at *World Scientific Publishing Co*

Reviewing:

1998-now *Zentralblatt Mathematik*, Karlsruhe-Berlin, Germany

2005-now *Journal of Zhejiang University. Science*, Hangzhou, China

2007-now AIP, Melville, USA

2010-now *Reports of Mathematical Physics*, Warsaw, Poland

2012-now *Advances in Mathematical Physics*, New York, USA

2016-now *Modern Physics Letters A*, World Scientific, Singapore

2017-now *International Journal of Modern Physics B*, World Scientific, Singapore

2014-now *Advances in Applied Clifford Algebras*, Springer, Heidelberg, Germany

2015-now *Hindawi Publishing Co.*, London, UK

2018-now *Symmetry*, Basel, Switzerland

LECTURE COURSES

Calculus, Elementary Particle Physics, Quantum chromodynamics, Unified theories, Supersymmetry and supergravity

SUPERVISION

5 students received Distinguished M.Sc. Degree in Theoretical Physics

4 PhD students

PROFESSIONAL MEMBERSHIPS

2014 RUSSIAN UNION OF WRITERS (Moscow, Russia)

2008 AMERICAN PHYSICAL SOCIETY (College Park, MD)

2002 ALEXANDER VON HUMBOLDT CLUB (Ukraine)

1995 AMERICAN MATHEMATICAL SOCIETY (Providence, RJ)

1994 INTERNATIONAL ASSOCIATION OF MATHEMATICAL PHYSICS (Cambridge, MA)

1993 ENGLISH INTERNATIONAL ASSOCIATION (Lund, Sweden)

1993 AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE (Washington, DC)

1992 EUROPEAN PHYSICAL SOCIETY (Geneva, Switzerland)

1999 INTERNATIONAL MATHEMATICAL UNION (IAS, Princeton)

LISTED

World Directory Of Mathematicians, Marques Who Is, Who In America, Encyclopedia of Modern Ukraine, Mathematical Portal (Math-Net), MathSciNet (American Mathematical Society), Academic Genealogy of Theoretical Physicists, Mathematics Genealogy Project, Wikipedia (UA), Google Scholar, Microsoft Academics, Scopus, Semantic Scholar, Zmath, ORCID, SciProfiles.

CONFERENCE ORGANIZING

2017 December Workshop *Supergeometry And Applications* (Luxembourg), as a member of Advisory Board

2005 June-International Workshop “*Pseudo-Hermitian Hamiltonians in Quantum Physics*”, as a member of Advisory Board

2000 September-NATO Advanced Research Workshop “*Noncommutative Structures in Mathematics and Physics*”, as a Partner Country Co-Director (NATO Co-Director: Julius Wess)

CONFERENCE PARTICIPATION

Participated at **30** international conferences, workshops, schools and seminars in USA, Germany, France, UK, Poland, Spain, Czech Republic, Russia, China, Ukraine.

VISITS & TALKS (names)

S. Adler, H. Arodz, M.A. Aukhadiev, J. Bagger, M. Bianchi, L. Bonora, B. Broda, C. Burdik, R. Casalbuoni, S. Catto, Jiejing Cheng, M. Ciric, A. Comtet, J. Cuntz, M. Dabrowski, C. Delizia, A. Douglas, B. Dragovich, W. Dudek, G. Esposito, P. Etingof, A.M. Gal'mak, D.V. Gal'tsov, G.A. Goldin, S.A. Grigoryan, H. Grosse, D. Grumiller, Qiang Guo, U. Günther, L. Kauffman, R. Kotiuga, M.I. Krivoruchenko, J. Kupsch, M. Lapidus, M.I. Levchuk, Fang Li, Kang Li, E. Lomon, J. Lukierski, L. Lusanna, W. Marcinek, A. Martsinkovsky, M. Mulase, F. Müller-Hoissen, Chi-Keung Ng, W. Von Oertzen, J. Okninski, N. Poncin, A.Ya. Radyno, M. Schlichenmaier, A. Schwarz, M. Shifman, W. Siegel, G.L. Stavraki, C. Ringel, V. Rittenberg, W. Rühl, J. Stasheff, X. Tata, M. Tonin, P. Urbanski, A. Vilenkin, K. Wali, J. Wess, G. Wolschin, S. Woronowicz, R. Wulkenhaar, Yun-Long Xu, Zheng Yu, C. Zachos, M. Zirnbauer, M. Znojil.

RESEARCH INTERESTS

Cryptography and signal processing.

Quantum computing and quantum information.

Coding theory and algebraic structures.

Polyadic algebraic structures and their applications in cryptography.

Mathematical methods in secure communication systems.

Supersymmetry and semigroups; supermatrix models; superconformal symmetry; super Riemann surfaces; exotic supermanifolds; supersymmetric quantum mechanics.

Quantum groups and supergroups; weak Hopf algebras and Yang-Baxter equation; representations of quantized algebras, new actions of quantum algebras on quantum spaces.

Nonlinear methods in (super)electrodynamics, Yang-Mills, gravity and multigravity.

Constrained systems and gauge theories, quantum chromodynamics and gravity.

Secondary:

Symmetries of genetic code and visualization of DNA sequences; Helicity formalism in quantum chromodynamics; Polarization phenomena in low energy nuclear physics; Rutherford backscattering method in ion implantation; Nonstationary radio noise.

SCIENTIFIC RESULTS AND INNOVATIVE IDEAS

with direct clickable links to articles

https://www.researchgate.net/publication/385046446_Abstract_of_my_life

https://www.uni-muenster.de/IT.StepanDouplii/Duplij_SciRes2026.pdf

SKILLS

Languages: English (perfect), German (speaking), Russian (native), Ukrainian (native), Italian (basic).

Programming: Perl, Mathematica, Maple, LaTeX, BibTeX, HTML.

PC platforms: MS-DOS, Windows, Unix, Linux.

PC software: Scientific Work Place, dBase, Adobe products, Microsoft Excel, Word, Photoshop, Dreamweaver, PowerPoint.

MASS MEDIA & SOCIAL LIFE

TV programs and interviews at the Kharkov TV studios

<https://www.uni-muenster.de/IT.StepanDouplii/old/TV-RADIO>

Scientific program “Logos” (interviews at the Central Kharkov radio station).

Articles about S. Duplij: in USA (SCOOP USA, Gazette, Library of Congress); in Germany, in Ukrainian press.

Alexander von Humboldt Fellows meetings/workshops.

LITERARY & MUSICAL ACTIVITY

Writing poetry and prose

More than [200 publications](#) in USA/UK professional literary magazines in English, German, French, Spanish, etc. (the full list is on homepage), and **14** literary books (available on [Amazon](#), [Barnes&Noble](#), etc.). Literary presentations:

<https://www.uni-muenster.de/IT.StepanDouplii/old/duplij-presentations.htm>

Playing guitar and composing songs

Professional CD audio albums of songs (for mp3's see [Music Site](#)):

“Blitz” (Heidelberg, 1995), “Motifs of years” (Heidelberg, 1996),

“Supermanifold of life” (Houston, 2007),

MC audio album of songs: “Blitz” (GEMA, Berlin, 1996).

Zwischenzeugnis

Herr Stepan Douplii ist seit dem 1. Juni 2019 im Center for Information Technology (CIT) als wissenschaftlicher Mitarbeiter im Forschungsprojekt zu *Innovative and Atypical Quantum Computing* tätig.

Das CIT ist mit rund 160 Beschäftigten das zentrale Dienstleistungs- und Kompetenzzentrum der Universität Münster für alle Belange der IT. Im Mittelpunkt seiner Tätigkeit steht die Erhebung zu möglichen Anwendungsfeldern sowie die Erarbeitung von Einsatzkonzepten für Quantencomputern in der wissenschaftlichen Forschung. Ein besonderer Schwerpunkt soll dabei die Erhebung zum Stand der Wissenschaft bei der Anwendung innovativer Mathematischer Konzepte für Quantencomputern sein.

Im Rahmen dieser Tätigkeit ist Herr Douplii für folgende Aufgaben verantwortlich:

- Analyse und Erschließung der Literatur zum Stand der Forschung im Themenfeld des Quantencomputing
- Entwicklung eigenständiger neuer Forschungsansätze für Quantencomputer auf Basis innovativer non-standard Methoden der Mathematik
- Publikation der Ergebnisse der Forschungsarbeit in Fachartikeln und Büchern
- Anwendung seiner fundierten lebenslangen Erfahrung in der Mathematischen Physik sowie die enge, wertschätzende Vernetzung mit weltweit anerkannten Experten

Herr Douplii verfügt ein hervorragendes und auch in Randbereichen sehr tiefgehendes Fachwissen, welches er stets gekonnt zum Wohle unserer Einrichtung einsetzt. Er ist als ausgewiesener Experte im laufenden Austausch mit anderen Expert*innen und organisiert zudem Fort- und Weiterbildungen im Rahmen seiner Forschungstätigkeit eigenständig.

Aufgrund seiner sehr guten Auffassungsgabe ist er jederzeit in der Lage, auch schwierige Situationen sofort zutreffend zu erfassen und schnell sehr gute Lösungen zu finden. Herr Douplii zeigt jederzeit hohe Eigeninitiative und identifiziert sich immer voll mit seinen Aufgaben und unserer Einrichtung, wobei er auch durch seine sehr große Einsatzfreude überzeugt.

Auf seine sehr absolut zuverlässige, sehr umsichtige und äußerst gewissenhafte Arbeitsweise ist auch in schwierigen Situationen jederzeit Verlass. Alle Aufgaben führt er

jederzeit vollkommen selbstständig, äußerst sorgfältig und planvoll durchdacht aus. Er agiert immer ruhig, überlegt und zielorientiert und in höchstem Maße präzise. Dabei überzeugt er stets in besonderer Weise sowohl in qualitativer als auch in quantitativer Hinsicht.

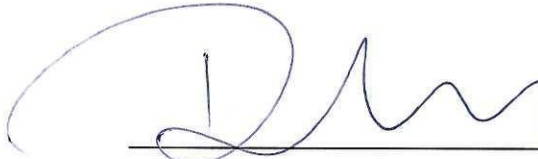
Vertrauenswürdigkeit und absolute Zuverlässigkeit zeichnen den Arbeitsstil von Herrn Douplii jederzeit aus. Auch für schwierigste Problemstellungen findet er sehr effektive Lösungen, die er jederzeit erfolgreich in die Praxis umsetzt und damit immer ausgezeichnete Arbeitsergebnisse erzielt.

Herr Douplii zeichnet sich durch die Veröffentlichung zahlreicher Fachartikel sowie zweier wissenschaftlicher Bücher mit den Titeln *Polyadic Algebraic Structures* und *Innovative Quantum Computing* aus. Diese Leistungen zeugen von seinem außergewöhnlichen Engagement und höchstem Maß an Identifikation mit der eigenen Arbeit. Seine Leistungsbereitschaft und fachliche Exzellenz sind dabei in besonderem Maße hervorzuheben.

Er wird wegen seines stets freundlichen und ausgeglichenen Wesens allseits sehr geschätzt. Er ist immer hilfsbereit, zuvorkommend und stellt, falls erforderlich, auch persönliche Interessen zurück. Sein Verhalten zu Vorgesetzten, Kolleg*innen sowie Kund*innen ist jederzeit vorbildlich.

Dieses Zwischenzeugnis wird auf Wunsch von Herrn Douplii ausgestellt. Wir bedanken uns bei ihm für die in der Vergangenheit erbrachten stets sehr guten Leistungen und freuen uns auf eine weiterhin positive Fortsetzung des Arbeitsverhältnisses.

Münster, 04.12.2024


Prof. Dr. Raimund Vogl
Leiter CIT



In total: **181** publications, among them **9** books and **172** articles on
mathematical physics, quantum computing, nonlinear electrodynamics, gravity,
cryptography, signal processing and DNA structure

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