

Sven Kosub

DATE OF BIRTH

July 1, 1970, in Rudolstadt (Thuringia, Germany)

MARITAL STATUS

Married, no child

OFFICE ADDRESS

Lehrstuhl für Effiziente Algorithmen
Fakultät für Informatik
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PRIVATE ADDRESS

Innere Wiener Straße 5
D-81667 München, Germany

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EDUCATION

May 2001	Doctorate in Computer Science (<i>summa cum laude</i>) Fakultät für Mathematik und Informatik Julius-Maximilians-Universität Würzburg Supervisor: Klaus W. Wagner
March 1996	Diploma in Mathematics (<i>magna cum laude</i>)
1991–1996	Studies in Mathematics and Computer Science Friedrich-Schiller-Universität Jena
July 1990	Abitur (<i>summa cum laude</i>) Facharbeiterbrief (Elektronikfacharbeiter)
1987–1990	Betriebsberufsschule <i>Geschwister Scholl</i> VEB Keramische Werke/Tridelta AG Hermsdorf (Thuringia, Germany)
July 1987	Secondary School Certificate Abitur in Russian
1979–1987	Zehnklassige Polytechnische Oberschule <i>Rudolf Scheffel</i> Advanced School for Russian Language Gera (Thuringia, Germany)
1977–1979	Zehnklassige Polytechnische Oberschule <i>Ernst Thälmann</i> Gera (Thuringia, Germany)

TITLE OF DOCTORAL DISSERTATION

Complexity and Partitions, 2000.

RESEARCH INTERESTS

Complexity Theory and Algorithms
Network Analysis and Discrete Network Dynamics
Internet Algorithmics and Game Theory

EMPLOYMENT

August 2001–	<i>Assistant Professor</i> (wissenschaftlicher Assistent) Fakultät für Informatik Technische Universität München
January 1997–July 2001	<i>Research Assistant</i> (wissenschaftlicher Mitarbeiter) Fakultät für Mathematik und Informatik Julius-Maximilians-Universität Würzburg
May 1996–December 1996	<i>Research Assistant</i> (wissenschaftliche Hilfskraft) Fakultät für Maschinenbau Technische Universität Ilmenau
September 1990–August 1991	<i>Military Service</i>
July 1990–October 1991 (including leave for military service)	<i>Programmer</i> Research and Development Division Tridelta AG Hermsdorf (Thuringia, Germany)

AWARDS & GRANTS

July 2003	Minerva Short-Term Research Grant 2003-2004 Minerva Foundation Gesellschaft für die Forschung Max-Planck-Gesellschaft
December 2002	Doctoral Dissertation Award Unterfränkische Gedenkjahrstiftung für Wissenschaft
September 1996	Graduate Fellowship Bundesland Thüringen (not realized)

RESEARCH VISIT

3.10.2003–31.10.2003	The Selim and Rachel Benin School of Computer Science and Engineering The Hebrew University of Jerusalem Host: Noam Nisan
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ACTIVITIES

January 2006–	Member InnovaTUM Sicherheitsinitiative Technische Universität München
May 2005–	Reviewer

AMS Mathematical Reviews

- September 2005 Course co-organizer
Ferienakademie der Friedrich-Alexander-Universität
Nürnberg-Erlangen, der Universität Stuttgart und der Technischen
Universität München
Course: *Inside Google - Algorithmics of Search Engines*
Sarentino Valley, South Tyrol
- September 2004 Course co-organizer
Ferienakademie der Friedrich-Alexander-Universität
Nürnberg-Erlangen, der Universität Stuttgart und der Technischen
Universität München
Course: *Polynomials - Efficient Algorithms and Applications*
Sarentino Valley, South Tyrol
- March 2004 Co-organizer
50th GI-Workshop on Complexity Theory, Data Structures, and
Efficient Algorithms
Technische Universität München
- July 2001 Co-organizer
44th GI-Workshop on Complexity Theory, Data Structures, and
Efficient Algorithms
Julius-Maximilians-Universität Würzburg
- August 2000 Workshop co-organizer
25th International Symposium on Mathematical Foundations of
Computer Science
Workshop: *New Developments in Formal Languages versus
Complexity*
Bratislava

SERVICE

Refereeing for Journals

European Journal of Combinatorics
IEEE Transactions on Systems, Man, and Cybernetics
Information and Computation
Journal of Computer and System Sciences
Journal of System Architecture
Theoretical Computer Science

Refereeing for Conferences

International Workshop on Computer Algebra and Scientific Computing (CASC): 2005
IEEE Conference on Computational Complexity (CCC): 1997, 2006
Conference on Computability in Europe (CiE): 2006, 2007
Conference on Foundations of Software Technology and Theoretical Computer Science
(FSTTCS): 2004
International Colloquium on Algorithms, Languages and Programming (ICALP): 2007

ACM Symposium on Parallelism in Algorithms and Architecture (SPAA): 2006, 2007
Symposium on Theoretical Aspects of Computer Science (STACS): 2000, 2007
Symposium on Mathematical Foundations of Computer Science (MFCS): 2002, 2004
Workshop on Graph-Theoretical Concepts in Computer Science (WG): 2002, 2004, 2005

MEMBERSHIPS

Association for Computing Machinery (ACM)
ACM Special Interest Group on Algorithms and Computation Theory (ACM SIGACT)
European Association for Theoretical Computer Science (EATCS)
European Complex Systems Society (ECSS)

TEACHING

Spring 2007	<i>Internet algorithmics: Routing methods</i> (Course) <i>Algorithmic aspects of non-linear optimization</i> (Advisor for advanced seminar) <i>Data compression</i> (Advisor for seminar)
Winter 2006-2007	<i>Internet algorithmics</i> (Course) <i>Algorithm engineering</i> (Advisor for advanced seminar) <i>Fundamentals of local self-stabilization</i> (Advisor for seminar)
Spring 2006	<i>Fundamentals of algorithms and data structures</i> (Course) <i>Text algorithms</i> (Advisor for seminar)
Winter 2005-2006	Research semester
Spring 2005	<i>Efficient algorithms and data structures II</i> (Course) <i>Internet algorithmics - managing the Internet efficiently</i> (Advances seminar) <i>Markov chains in algorithmics</i> (Advisor for seminar)
Winter 2004-2005	<i>Efficient algorithms and data structures I</i> (Course) <i>Dynamic graph algorithms</i> (Advanced seminar) <i>Text algorithms and pattern matching</i> (Advisor for seminar)
Spring 2004	<i>Internet algorithmics</i>

	(Course)
Winter 2003-2004	<i>Efficient algorithms and data structures I</i> (Course)
	<i>Algorithmic aspects of Artificial Life</i> (Seminar)
Spring 2003	<i>Internet algorithmics</i> (Course; cancelled due to illness and rehabilitation)
Winter 2002-2003	<i>Fundamental algorithms</i> (Course)
	<i>Quantum computing</i> (Advisor for advanced seminar)
Spring 2002	<i>Theoretical foundations of the Internet</i> (Advanced seminar)
Winter 2001-2002	<i>Discrete structures I</i> (Tutorial; Lecturer: Wilfried Brauer)
Spring 2001	<i>Advanced topics in complexity theory</i> (Tutorial; Lecturer: Klaus W. Wagner)
	<i>Computability and logic</i> (Tutorial; Lecturer: Kathrin Tent)
Winter 2000-2001	<i>Complexity theory</i> (Tutorial; Lecturer: Klaus W. Wagner)
Spring 2000	<i>Logic in computer science</i> (Tutorial; Lecturer: Klaus W. Wagner)
	<i>Cryptography</i> (Advisor for advanced seminar)
Winter 1999-2000	<i>Automata and formal languages</i> (Tutorial; Lecturer: Heribert Vollmer)
Spring 1999	<i>Logic in computer science</i> (Tutorial; Lecturer: Klaus W. Wagner)
Winter 1998-1999	<i>Complexity theory I</i> (Tutorial; Lecturer: Heribert Vollmer)
Spring 1998	<i>Kolmogorov complexity</i> (Tutorial; Lecturer: Nikolay K. Vereshchagin)
Winter 1997-1998	<i>Introduction to theoretical computer science</i> (Tutorial; Lecturer: Klaus W Wagner)
Spring 1997	<i>Logic in computer science</i> (Tutorial; Lecturer: Klaus W. Wagner)

STUDENTS

Diploma Theses

1. Benjamin Hummel. *Automaton-based IP Packet Classification*. June 2006.
2. Tobias Haensse. *Dynamical and Persistent Iterators for Spanning Trees*. January 2006.
3. Angelika Kneidl. *Maintaining Views in Dynamical Hierarchies*. July 2005.
4. Anna-Gwendolyn Huber. *Elevator Control under Direct-Travel Conditions*. April 2005.
5. Zakaria Jabara. *Experimental Analysis of Algorithms for Inferring Internet Hierarchies*. March 2005.
6. Melanie Liebl. *Algorithmically Analyzing the Attractiveness of Pure-Strategy Nash Equilibria in Symmetric Congestion Games*. January 2005.
7. Georgios Mertzios. *Improved Algorithms for the Fixed-Parameter Cluster-Detection Problem and Applications*. December 2004.

Student Projects

1. Zlatina Savova. *Wrapper Integration in Automated Reference Generation*. October 2004. Advised together with Stefan Pfingstl.
2. Georgios Mertzios. *Design and Implementation of an Algorithm for Identifying Subgraphs with Constant Edge Excess*. August 2004.
3. Matthias Hanitzsch. *Automated Generation of References from Electronic Journals*. February 2003.

PUBLICATIONS

Book Chapters

1. S. Kosub. Local Density. In U. Brandes, T. Erlebach (Hrsg.), *Network Analysis - Methodological Foundations*, volume 3418 of *Lecture Notes in Computer Science*, chapter 6, pages 112–142. Springer-Verlag, Berlin, 2005.

Refereed Journal Publications

2. L. A. Hemaspaandra, C. M. Homan, S. Kosub. Cluster Computing and the Power of Edge Recognition. *Information and Computation*. To appear.
3. S. Kosub, K. W. Wagner. The Boolean Hierarchy of NP-Partitions. *Information and Computations*. To appear.
4. L. A. Hemaspaandra, C. M. Homan, S. Kosub, K. W. Wagner. The Complexity of Computing the Size of an Interval. *SIAM Journal on Computing*, **36**(5):1250–1286, 2006.
5. K. Holzapfel, S. Kosub, M. G. Maaß, H. Täubig. The Complexity of Detecting Fixed-Density Clusters. *Discrete Applied Mathematics*, **154**(11):1547–1562, 2006.
6. S. Kosub. NP-Partitions over Posets with an Application to Reducing the Set of Solutions of NP Problems. *Theory of Computing Systems*, **38**(1):84–114, 2005.
7. M. Galota, S. Kosub, H. Vollmer. Generic Separations and Leaf Languages. *Mathemati-*

cal Logic Quarterly, **49**(4):353–362, 2003.

8. S. Kosub, H. Schmitz, H. Vollmer. Uniform Characterizations of Complexity Classes of Functions. *International Journal of Foundations of Computer Science*, **11**(4):525–551, 2000.
9. S. Kosub. A Note on Unambiguous Function Classes. *Information Processing Letters*, **72**(5–6):197–203, 1999.

Articles in Conference Proceedings

10. S. Kosub, C. M. Homan. Dichotomy Results for Fixed Point Counting in Boolean Dynamical Systems. In *Proceedings of the 10th Italian Conference on Theoretical Computer Science (ICTCS'2007)*. World Scientific Publishing, Singapore, 2007. To appear.
11. M. Baumgart, S. Eckhardt, J. Griebisch, S. Kosub, J. Nowak. All-Pairs Common-Ancestor Problems in Weighted Dags. In *Proceedings of the International Symposium on Combinatorics, Algorithms, Probabilistic and Experimental Methodologies (ESCAPE'2007)*, volume NNNN of *Lecture Notes in Computer Science*. Springer-Verlag, Berlin, 2007. To appear.
12. S. Kosub, M. G. Maaß, H. Täubig. Acyclic Type-of-Relationship Problems on the Internet. In *Proceedings of the 3rd Workshop on Combinatorial and Algorithmic Aspects of Networking (CAAN'2006)*, volume 4235 of *Lecture Notes in Computer Science*, pages 98–111. Springer-Verlag, Berlin, 2006.
13. L. A. Hemaspaandra, C. M. Homan, S. Kosub. Cluster Computing and the Power of Edge Recognition. In *Proceedings of the 3rd Annual Conference on Theory and Applications of Models of Computation (TAMC'2006)*, volume 3959 of *Lecture Notes in Computer Science*, pages 283–294. Springer-Verlag, Berlin, 2006.
14. S. Eckhardt, S. Kosub, M. G. Maaß, H. Täubig, S. Wernicke. Combinatorial Network Abstraction by Trees and Distances. In *Proceedings of the 16th Annual International Symposium on Algorithms and Computation (ISAAC'2005)*, volume 3827 of *Lecture Notes in Computer Science*, pages 1100–1109. Springer-Verlag, Berlin, 2005.
15. S. Kosub. Boolean NP-Partitions and Projective Closure. In *Proceedings of the 4th International Conference on Discrete Mathematics and Theoretical Computer Science (DMTCS'2003)*, volume 2731 of *Lecture Notes in Computer Science*, pages 225–236. Springer-Verlag, Berlin, 2003.
16. K. Holzapfel, S. Kosub, M. G. Maaß, H. Täubig. The Complexity of Detecting Fixed-Density Clusters. In *Proceedings of the 5th Italian Conference on Algorithms and Complexity (CIAC'2003)*, volume 2653 of *Lecture Notes in Computer Science*, pages 201–212. Springer-Verlag, Berlin, 2003. Journal version: [5].
17. L. A. Hemaspaandra, S. Kosub, K. W. Wagner. The Complexity of Computing the Size of an Interval. In *Proceedings of the 28th International Colloquium on Automata, Languages and Programming (ICALP'2001)*, volume 2076 of *Lecture Notes in Computer Science*, pages 1040–1051. Springer-Verlag, Berlin, 2001. Journal version: [4]
18. S. Kosub. On NP-Partitions over Posets with an Application to Reducing the Set of Solutions of NP Problems. In *Proceedings of the 25th Symposium on Mathematical Found-*

- dations of Computer Science (MFCS'2000)*, volume 1893 of *Lecture Notes in Computer Science*, pages 467–476. Springer-Verlag, Berlin, 2000. Journal version: [6].
19. S. Kosub, K. W. Wagner. The Boolean Hierarchy of NP-Partitions. In *Proceedings of the 17th Symposium on Theoretical Aspects of Computer Science (STACS'2000)*, volume 1770 of *Lecture Notes in Computer Science*, pages 157–168. Springer-Verlag, Berlin, 2000. Journal version: [3].
 20. D. Görsch, S. Kosub, K.-P. Zocher. Allgemeine Systeme der Toleranzgruppenoptimierung. In *Proceedings of the 44th International Scientific Colloquium (IWK'1999)*, volume 1, pages 411–417. Technische Universität Ilmenau, Ilmenau, 1999.
 21. D. Görsch, S. Kosub, K.-P. Zocher. Toleranzgruppenoptimierung in der Adaptiven und Selektiven Montage. In *Proceedings of the 44th International Scientific Colloquium (IWK'1999)*, volume 3, pages 463–468. Technische Universität Ilmenau, Ilmenau, 1999.
 22. S. Kosub, H. Schmitz, H. Vollmer. Uniformly Defining Complexity Classes of Functions. In *Proceedings of the 15th Symposium on Theoretical Aspects of Computer Science (STACS'1998)*, volume 1373 of *Lecture Notes in Computer Science*, pages 607–617. Springer-Verlag, Berlin, 1998. Journal version: [8].

Theses

23. S. Kosub. *Computational Analysis of Complex Systems: Discrete Foundations, Algorithms, and the Internet*. Habilitationsschrift, Fakultät für Informatik, Technische Universität München, May 2007. Submitted.
24. S. Kosub. *Complexity and Partitions*. Doctoral Dissertation, Fakultät für Mathematik und Informatik, Julius-Maximilians-Universität Würzburg, November 2000. Full version available from PhD Theses Series of the *Electronic Colloquium on Computational Complexity*, 2000.
25. S. Kosub. *Clustermaschinen*. Diplomarbeit, Fakultät für Mathematik und Informatik, Friedrich-Schiller-Universität Jena, February 1996. Journal version: [9].

Technical Reports

26. B. Hummel, S. Kosub. Acyclic Type-of-Relationship Problems on the Internet: An Experimental Analysis. Technical Report TUM-I0709, Fakultät für Informatik, Technische Universität München, February 2007.
27. S. Kosub, C. M. Homan. Dichotomy Results for Fixed Point Counting in Boolean Dynamical Systems. Technical Report TUM-I0706, Fakultät für Informatik, Technische Universität München, January 2007. Conference version: [10].
28. S. Kosub. Dichotomy Results for Fixed-Point Existence Problems for Boolean Dynamical Systems. Technical Report TUM-I0701, Fakultät für Informatik, Technische Universität München, January 2007.
29. M. Baumgart, S. Eckhardt, J. Griebisch, S. Kosub, J. Nowak. All-Pairs Common-Ancestor Problems in Weighted Dags. Technical Report TUM-I0606, Fakultät für Informatik, Technische Universität München, April 2006.

30. S. Kosub, M. G. Maaß, H. Täubig. Acyclic Type-of-Relationship Problems on the Internet. Technical Report TUM-I0605, Fakultät für Informatik, Technische Universität München, March 2006. Conference version: [12].
31. L. A. Hemaspaandra, C. M. Homan, S. Kosub. Cluster Computing and the Power of Edge Recognition. Technical Report URCS-TR-2005-878, Department of Computer Science, University of Rochester, September 2005. Also as Technical Report cs.CC/0509060, ACM Computing Research Repository, September 2005. Conference version: [13]
32. S. Eckhardt, S. Kosub, M. G. Maaß, H. Täubig, S. Wernicke. Combinatorial Network Abstraction by Trees and Distances. Technical Report TUM-I0502, Fakultät für Informatik, Technische Universität München, March 2005. Conference version: [14].
33. L. A. Hemaspaandra, C. M. Homan, S. Kosub, K. W. Wagner. The Complexity of Computing the Size of an Interval. Technical Report URCS-TR-2005-856, Department of Computer Science, University of Rochester, February 2005. Also as Technical Report cs.CC/0502058, ACM Computing Research Repository, February 2005. Conference version: [17]. Journal version: [4].
34. S. Kosub. Local Density. Technical Report TUM-I0421, Fakultät für Informatik, Technische Universität München, December 2004. Book version: [1].
35. K. Holzapfel, S. Kosub, M. G. Maaß, H. Täubig. The Complexity of Detecting Fixed-Density Clusters. Technical Report TUM-I0212, Fakultät für Informatik, Technische Universität München, December 2002. Conference version: [16]. Journal version: [5].
36. S. Kosub, E. W. Mayr, A. Steger (eds.). Theoretische Grundlagen des Internets. Technical Report TUM-I0210, Fakultät für Informatik, Technische Universität München, October 2002.
37. S. Kosub, K. W. Wagner. The Boolean Hierarchy of NP-Partitions. Technical Report No. 233, Institut für Informatik, Julius-Maximilians-Universität Würzburg, Juli 1999. Revised and expanded version as Technical Report TUM-I0209, Fakultät für Informatik, Technische Universität München, September 2002. Conference version: [19]. Journal version: [3].
38. M. Galota, S. Kosub, H. Vollmer. Generic Separations and Leaf Languages. Technical Report Bericht TUM-I0104, Fakultät für Informatik, Technische Universität München, September 2001. Also as Technical Report No. 281, Institut für Informatik, Julius-Maximilians-Universität Würzburg, September 2001. Journal version: [7].
39. S. Kosub. Types of Separability. Technical Report No. 267, Institut für Informatik, Julius-Maximilians-Universität Würzburg, November 2000.
40. S. Kosub. Boolean Partitions and Projective Closure. Technical Report No. 266, Institut für Informatik, Julius-Maximilians-Universität Würzburg, November 2000. Conference version: [15].
41. S. Kosub. On NP-Partitions over Posets with an Application to Reducing the Set of Solutions of NP Problems. Technical Report No. 257, Institut für Informatik, Julius-Maximilians-Universität Würzburg, April 2000. Conference version: [18]. Journal version: [6].
42. S. Kosub. Persistent Computations. Technical Report No. 217, Institut für Informatik, Julius-Maximilians-Universität Würzburg, December 1998.

43. S. Kosub, H. Schmitz, H. Vollmer, Uniformly Defining Complexity Classes of Functions. Technical Report No. 183, Institut für Informatik, Julius-Maximilians-Universität Würzburg, September 1997. Conference version: [22]. Journal version: [8].
44. S. Kosub. On Cluster Machines and Function Classes. Technical Report No. 172, Institut für Informatik, Julius-Maximilians-Universität Würzburg, May 1997. Journal version: [9].

PRESENTATIONS

Invited Talks

1. *Density-based clustering*, Colloquium, Institut für Informationssysteme, Universität Hannover, June 2003. In German.
2. *Projectively closed NP-partitions*, First Würzburg Fall Workshop, October 2002. In German.
3. *The complexity of detecting fixed-density clusters*, Colloquium, Lehrstuhl für Theoretische Informatik, Julius-Maximilians-Universität Würzburg, July 2002. In German.
4. *The complexity of partitions*, Colloquium, Lehrstuhl für Effiziente Algorithmen, Technische Universität München, January 2001. In German.

Contributed Talks

5. *Fixed-point analysis of boolean dynamical systems*, 53rd GI Workshop on Complexity Theory, Data Structures, and Efficient Algorithms, Dortmund, May 2007. In German.
6. *Acyclic type-of-relationship problems on the Internet*, 3rd Workshop on Combinatorial and Algorithmic Aspects of Networking (CAAN'2006), Chester, July 2006. Also at: 51st GI Workshop on Complexity Theory, Data Structures, and Efficient Algorithms, Erlangen, March 2005. In German.
7. *Cluster computing and the power of edge recognition*, 3rd International Conference on Theory and Applications of Models of Computation (TAMC'2006), Beijing, May 2006.
8. *Frugality of path mechanisms*, GI Dagstuhl-Seminar on Game-Theoretic Analyses of the Internet, IBFI Schloss Dagstuhl, September 2004.
9. *Local network density*, GI Dagstuhl-Seminar on Network Analysis, IBFI Schloss Dagstuhl, April 2004. In German.
10. *Boolean NP-partitions and projective closure*, 4th International Conference on Discrete Mathematics and Theoretical Computer Science (DMTCS'2003), Dijon, July 2003. Also at: 48th GI Workshop on Complexity Theory, Data Structures, and Efficient Algorithms, Hannover, June 2003. In German.
11. *The complexity of detecting fixed-density clusters*, 46th GI Workshop on Complexity Theory, Data Structures, and Efficient Algorithms, Marburg, December 2002. In German.
12. *News on the Embedding Conjecture*, Ellwangen-Workshop, Würzburg, Februar 2000. In German.

13. *NP-partitions over posets with an application to reducing the set of solutions of NP problems*, 25th International Symposium on Mathematical Foundations of Computer Science (MFCS'2000), Bratislava, September 2000. Also at: 40th GI Workshop on Complexity Theory, Data Structures, and Efficient Algorithms, Ilmenau, March 2000. In German.
14. *The boolean hierarchy of NP-partitions*, 17th Symposium on Theoretical Aspects of Computer Science (STACS'2000), Lille, Februar 2000. Also at: 37th GI Workshop on Complexity Theory, Data Structures, and Efficient Algorithms, Berlin, March 1999. In German. Also at: Ellwangen-Workshop, Ulm, December 1998. In German.
15. *General systems of tolerance group optimization*, 44th International Scientific Colloquium (IWK'1999), Ilmenau, September 1999. In German.
16. *Uniformly defining complexity classes of functions*, Formal Languages and Automata Theory Forum, Würzburg, October 1997. In German. Also at: Ellwangen-Workshop, Ulm, May 1997. In German.
17. *On cluster machines and function classes*, 31st GI Workshop on Complexity Theory, Data Structures, and Efficient Algorithms, March 1997. In German. Also at: DMV-Jahrestagung (Studentenkonferenz), Jena, September 1996. In German.

REFERENCES

Prof. Dr. Ernst W. Mayr

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Fakultät für Informatik
Technische Universität München
Boltzmannstraße 3
D-85748 Garching b. München, Germany

Prof. Dr. Klaus W. Wagner

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Fakultät für Mathematik und Informatik
Bayerische Julius-Maximilians-Universität Würzburg
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D-97074 Würzburg, Germany

Prof. Dr. Lane A. Hemaspaandra

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