CV of Martin Schlichenmaier

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Date of birth: 9.10.1952

University education and appointments

Since October 2020 Professor emeritus at the University of Luxembourg

October 2017 – October 2020: Senior professor for mathematics at the University of Luxembourg

October 2005 – December 2017: Head of the Department of Mathematics of the University of Luxembourg (DMATH)

October 2003 – October 2017: Full professor for mathematics at the University of Luxembourg,

1997 – 2003: Hochschuldozent and Apl. Professor at the University of Mannheim,

18. December 1996: Habilitation (Privatdozent) in mathematics, University of Mannheim,

1985 – 1997: Assistant at the University of Mannheim

28. June 1990: PhD, University of Mannheim, Fakultät für Mathematik und Informatik

1984 – 1985: A one year research stay at Brandeis University, Waltham, Massachusetts, U.S.A. with a fellowship from the German Academic Exchange Service (DAAD)

1978 – 1984: studies in mathematics and theoretical physics at the University of Karlsruhe, finished with the degree of a Diplommathematiker,

1974 – 1978: studies in computer science at the Fachhochschule Mannheim, finished with Diplominformatiker (FH),

Research fields

My research deals with geometric (algebraic-geometric, symplectic-geometric, analytic-geometric, differential-geometric), analytic, and algebraic theories and techniques which beside their mathematical interest also have a close connection to mathematical physics, theoretical physics, and other sciences. In particular I work on mathematical aspects of quantization, geometrically induced Lie algebras and Lie groups, moduli spaces, Hilbert spaces of states, and deformations of structures.

Awards

Grand Prix 2016 en sciences mathématiques de l'Institut Grand-Ducal – prix de la Bourse de Luxembourg,

February 2019: Appointed as a Full Member of the l'Institut Grand-Ducal, Section des Sciences

Fellowship of the Studienstiftung des Deutschen Volks

a one year fellowship of the DAAD for studying in the USA

first recipient of the *Preis der Freunde der Fachhochschule für Technik, Mannheim*

Publications

90 scientific publications including

3 monographs (single-authored)

22 collections and proceedings volumes

55 peer-reviewed articles in scientific journals, collections and proceedings

Some Scientific Activities

More than 100 talks on international conferences and workshops

More than 50 colloquium talks at other universities and research centers

More than 35 research stays at other international research institutions for one week or longer.

Reviewer for Zentralblatt für Mathematik (Mathematical Abstracts) (approximately 150 reviews) and for Mathematical Reviews (approximately 190 reviews).

Scientific Responsibilities

Member of roughly 70 organization committees of international conferences and workshops

Member of the steering committee of the European Science Foundation (ESF) research networking programme *Harmonic and Complex Analysis and Applications (HCAA)*

Member of the steering committee (executive committee) of the European Science Foundation (ESF) research networking programme *Interaction of Topology and low-dimensional geometry with physics (ITGP).*

Member of the Core Management Group of the EU-Cost Network *QSPACE (Quantum structure of space time).*

Member of the Management Group of the EU-Cost Network *Fundamental challenges in theoretical physics.*

President of the Societé Mathématiques de Luxembourg (SML) (until 2022)

Member of the editorial board of the *Journal of Lie Theory*

Member of the editorial board of the journal *Analysis and Mathematical Physics*

Chief Editor of the *Travaux mathematiques*

Member of the editorial board of *Algebra Letters*

Member of the advisory board of the "Concise Encyclopedia on supersymmetry and non-commutative structures in mathematics and physics" (J Bagger, St. Duplij, W. Siegel Kluwer 2003).

Referee of Research Proposals and Panel Membership

National Science Foundation (NSF), USA,

Stichting voor Fundamental onderzoek der Materie (FOM), The Netherlands,

ANR France,

MCESR, Luxembourg Government, BFR,

Veni program, NWO, The Netherlands,

European Science Foundation (ESF), several proposal and panel member of the T2M programme (2014),

Norwegian Research Foundation (NRF), including panel member 2010, 2011, 2012,

FWO (Research Foundation Flanders) and FNRS (Belgium)

National Scienes and Engineering Research Council of Canada

European Research Council (proposals for ERC grants)

EU Marie-Curie Fellowships

Selection Committee of the Institut Universitaire de France 2015 and 2016

DFG (Germany)

IUF (Institut Universitaire de France) panel member 2015 and 2016

Referee for articles submitted to scientific journals /book projects

For more than 25 different international journals and for books published by Birkhäuser Verlag; Oxford University Press; Springer Verlag, de Gruyter Verlag

Member of Scientific Societies

SML (Luxembourg Mathematical Society) - President,

DMV (German Mathematical Society),

AMS (American Mathematical Society),

EMS (European Mathematical Society),

"Fachgruppe Computer Algebra" of the GI (Society of Computer Scientists) and the DMV, and "Fachgruppe Mathematische Physik" of the DMV.

Externally funded Research Projects

Several projects financed by FNR Luxembourg (AFR, OPEN), the most recent was a 500 000 EURO grant in the OPEN scheme (2014–2017), several Internal Research Projects of the University of Luxembourg, DFG (Deutsche Forschungsgemeinschaft), Romanian Academy of Science, Volkswagenstiftung, Russian Foundation of Basic Research (RFBR), Nato-Science Fellowship, European Science Foundation (ESF), Foundation Compositio, Erwin-Schroedinger Institut, ICMAT Madrid

Academic Responsibilities

Head of the Mathematics Research Unit (now called Department of Mathematics) of the University of Luxembourg (2005 – 2017)

Extensive experience in Teaching on all levels, Bachelor, Diplom, Master, PhD and Post-doc.

Extensive experience in PhD supervision (8 finished)

Extensive experience in Post-doc supervision (23 finished).

Member of numerous PhD and Habilitation committees (national and international).

Several Lecture Courses on summer schools (or winter schools) at the Graduiertenkollegs at the LMU Munich, Humboldt University Berlin, University of Göttingen, Centre de Investigación en Mathemáticas in Guanajuato (CIMAT), Brussels, Mexico, Malaysia, Charleston College USA

Member of several hiring committees for professor positions (at the UL and at universities abroad)

Outreach Activities (A selection)

Mathematik als universeller Schlüssel komplexer Systeme, Talk at the Institut Grand-Ducal, 19.11.2016

Talk for the general public: Quasikristalle - 10 zählige Symmetrien gibt es nicht - oder doch, 1.4.2014, University of Luxembourg

Vortragsserie für Gymnasiallehrer May 2011, General Introduction and talk *Die Clay Milleniumsprobleme und ihr historischer Vorgänger die 23 mathematischen Probleme von Hilbert aus dem Jahr 1900*

3e Ecole d'ete Leonardo: (R)EVOLUTION(S), 2009 Presentation: Symmetrien in der Natur: Was sagt uns die Mathematik hierzu?