

## Curriculum Vitae

**Serge Richard**  
**Institute of Liberal Arts and Sciences**  
**Nagoya University**  
**Furo-cho**  
**Chikusa-ku**  
**Nagoya 464-8601**  
**Japan**

**richard@math.nagoya-u.ac.jp**



<http://www.math.nagoya-u.ac.jp/~richard/>

Born : July 20, 1975  
Citizenship : Swiss & Belgian  
Marital status : married, 1 child

### EDUCATION AND EMPLOYMENT

10 / 2022 - ...	Professor, Nagoya University (JP)
07 / 2021 - 3 / 2022	Senior visiting scientist, RIKEN, Data Assimilation Research Team
10 / 2016 - 09 / 2022	Designated Professor, Nagoya University (JP)
10 / 2013 - 09 / 2016	Designated Associate Professor, Nagoya University (JP)
08 / 2012	Reinstatement to my position of Associate Professor (MCF), Camille Jordan Institute, Université de Lyon (F)
09 / 2011	HDR defence, Université de Lyon (F) Title : <i>A few results in scattering theory: Time operator, time delay, Mourre theory and topological Levinson's theorems</i> Jury members : J.-M. Bouclet, S. de Bièvre, V. Georgescu, C. Gérard, J. Kellendonk, C.-A. Pillet
08 / 2010 - 07 / 2012	Visiting scholar, University of Tsukuba (JP)
09 / 2008 - 07 / 2010	Visiting scholar, University of Cambridge (UK) Visiting Fellow at Clare Hall, Cambridge On leave of absence from the Université de Lyon (F)
11 / 2006 - 03 / 2023	Associate professor (MCF), Camille Jordan Institute, Université de Lyon (F)
10 / 2004 - 10 / 2006	Postdoctoral researcher in mathematical physics and analysis Camille Jordan Institute, Université de Lyon (F)
06 / 2004	PhD in Physics (mathematical physics), Université de Genève (CH) Title: <i>Commutator methods in spectral and scattering theory</i> Jury members : A. Alekseev, W. Amrein, G. M. Graf, M. Măntoiu
08 / 2000 - 07 / 2001	Mathematics teacher in 3 classes of secondary school, Geneva (CH)
03 / 1999	MSc in theoretical physics, Université de Lausanne (CH) Prize of the Faculty of Sciences
07 / 1998	BA in theoretical physics, Université de Lausanne (CH)

## Curriculum Vitae

### GRANTS

RIKEN Presidential grant, joint project with Prof. Miyoshi (RIKEN + Kyoto Univ.), 1 year (2021)

JSPS Grant-in-Aid for scientific research C no 21K03292, 4 years (2021 - 2024)

JSPS Grant-in-Aid for scientific research C no 18K03328, 3 years (2018 - 2020)

Nagoya University research grant for young researcher, 5 years (2017 - 2021)

JSPS Grant-in-Aid for Young Scientists A no 26707005, 3 years (2014 - 2016)

Bonus for excellent research (PES), from Oct. 2012

Research grant from the Japanese Society for the Promotion of Sciences for a stay in Tsukuba (JP), 2 years (2010 - 2012)

Grant for advanced researchers from the Swiss National Science Foundation for a stay in Cambridge (UK), 2 years (2008 - 2010)

CNRS grant for the network Quantum Spaces - Noncommutative Geometry for a stay in Lyon (F), 8 months (2005 - 2006)

Grant for prospective researchers, Swiss National Science Foundation for a stay in Lyon (F), 1 year (2004 - 2005)

### INVITATIONS

February 3 - 27, 2023	Australian National University, Canberra (Australia) University of Wollongong, Wollongong (Australia)
February 10 - 20, 2020	National University of Singapore (Singapore)
October 12 - 20, 2019	Facultad de Matemáticas, Pontificia Universidad Católica de Chile, Santiago (Chile)
Aug. 21 - Sept. 6, 2019	Departamento de Matemáticas, Universidad de Chile, Santiago (Chile)
July 21 - 28, 2019	Central China Normal University, Wuhan (China)
February 14 - 21, 2019	National University of Singapore (Singapore)
September 17 - 30, 2017	Facultad de Matemáticas, Pontificia Universidad Católica de Chile, Santiago (Chile)
February 20 - 24, 2017	WPI-AIMR, Tohoku University, Sendai (Japan)
March 7 - 11, 2016	School of mathematics, UNSW, Sydney (Australia)
February 9 - 19, 2016	Facultad de Matemáticas, Pontificia Universidad Católica de Chile, Santiago (Chile)
November 19 - 30, 2014	Facultad de Matemáticas, Pontificia Universidad Católica de Chile, Santiago (Chile)
May 31 - June 15, 2013	Facultad de Matemáticas, Pontificia Universidad Católica de Chile, Santiago (Chile)
December 1 - 15, 2012	Institut Mittag-Leffler, Stockholm (SU)
June 28 - July 12, 2012	Departamento de Matemáticas, Universidad de Chile, Santiago (Chile)
April 30 - May 5, 2012	Department of theoretical physics, University of Geneva (CH)
March 5 - 9, 2012	Department of mathematics, University of Columbia, Missouri (USA)
Nov. 19 - Dec. 2, 2011	Facultad de Matemáticas, Pontificia Universidad Católica de Chile, Santiago (Chile)
September 19 - 23, 2011	Mathematics Department, Université Paris Sud, Orsay (F)
May 30 - June 2, 2011	Institut de mathématiques, Université de Lyon (F)

## Curriculum Vitae

June 21 - 25, 2010	Centre Bernouilli, EPFL, Lausanne (CH)
May 23 - 28, 2010	Institut de mathématiques, Université de Lyon (F)
May 1 - 18, 2010	Facultad de Matemáticas, Pontificia Universidad Católica de Chile, Santiago (Chile)
Feb. 26 - Mar. 14, 2010	School of Mathematics, University of Tsukuba (JP)
January 18 - 26, 2008	Graduate School of Mathematical Sciences, University of Tokyo (JP)
Nov. 20 - Dec. 1, 2006	Theoretical Physics Department, Université Paris Sud, Orsay (F)
October 4 - 14, 2006	London Math. Society, stays in Birmingham, Leicester, London (UK)
June 19 - 30, 2006	Mathematics Department, Université Paris Sud, Orsay (F)

### ACADEMIC ACTIVITIES

- Co-organizer of *Himeji conference on partial differential equations*, March 4 - 6, 2024
- Co-organizer of *Himeji conference on partial differential equations*, March 3 - 5, 2023
- Co-organizer of the workshop *Mathematical approach for topological physics (III)*, Online, March 23, 2022
- Co-organizer of *Himeji conference on partial differential equations*, Online, March 2 - 4, 2022
- Co-organizer of the RIKEN-Nagoya University Joint Workshop: *Towards the Use of Data Assimilation for COVID-19 Investigations*, Online, February 14, 2022
- Co-organizer of *Himeji conference on partial differential equations*, Online, March 4 - 5, 2021
- Organizer of the Workshop *Unitary operators: spectral and topological properties*, Online, September, 29 2020
- Co-organizer of the workshop *Mathematical approach for topological physics (II)*, Nagoya, September 25, 2019
- Co-organizer of *Himeji conference on partial differential equations*, March 4 - 6, 2019
- Co-organizer of the workshop *Mathematical approach for topological physics (I)*, Nagoya, April 6, 2018
- Co-organizer of *Himeji conference on partial differential equations*, February 21 - 22, 2018
- Co-organizer of the workshop *Quantum walks, random walks and scattering theory on periodic systems*, Nagoya, January 21 - 22, 2015
- Member of the consultative board 25/26 of the University of Lyon, since Sept. 2012
- In charge of the weekly seminar of mathematical physics, Camille Jordan Institute, Université de Lyon, Sept. 2012 - July 2013
- Co-organizer of the workshop *Scattering theory and higher degree traces*, Lyon, Dec. 3 - 4, 2009
- Co-organizer of the first meeting of the GDR *Quantum Dynamics* in Lyon, September 7 - 9, 2009
- In charge of the weekly seminar of mathematical physics, Camille Jordan Institute, Université de Lyon, Sept. 2007 - June 2008
- Organizer of the workshop *spectral theory and non-commutative geometry*, 2007 - 2008

### TEACHING EXPERIENCE

#### Master courses:

Introduction to stochastic calculus (spring 2024)

## Curriculum Vitae

Scattering theory for unitary operators (spring 2023)  
C\*-algebraic methods in spectral theory (spring 2022, spring 2014)  
Graphs and epidemiology (spring 2021)  
K-theory for C\*-algebras, and beyond (spring 2020, spring 2015)  
Operator theory on Hilbert spaces (spring 2019)  
Scattering theory (spring 2018)  
Dixmier traces (spring 2017)  
Hilbert space methods for quantum mechanics (spring 2016)

### **Undergraduate courses:**

Differential geometry (fall 2024, fall 2018)  
Graph theory (spring 2024, spring 2020)  
Introduction to stochastic calculus (fall 2023)  
Introduction to functional analysis (spring 2023, fall 2019, spring 2017)  
Groups and their representations (fall 2022, spring 2018)  
Introduction to data assimilation (spring 2022)  
Differential equations and dynamical systems (fall 2021)  
Introduction to probability (spring 2021, fall 2017)  
Statistics (spring 2019)  
Calculus I (falls 2024, 2023, 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015), lecture and tutorial  
Calculus II (springs 2022, 2021, 2020, 2019, 2018, 2017, 2016), lecture and tutorial  
Pre-college mathematics (falls 2024, 2023, 2022, 2021, 2020, 2019, 2018, 2017, 2016, 2015), tutorial  
Linear algebra II (spring 2015, spring 2014), lecture and tutorial  
Linear algebra I (fall 2014, fall 2013), lecture and tutorial  
Calculus on  $\mathbb{R}^n$  (spring 2013), tutorial  
Analysis II (spring 2013), tutorial  
Analysis I and III (fall 2012), tutorial  
Complex analysis (spring 2008), lecture and tutorial  
Functional analysis (fall 2007), tutorial  
Advanced complex analysis (spring 2007), tutorial  
Calculus with several real variables (spring 2008, fall 2007, spring 2007), tutorial

### **Undergraduate courses in physics:**

Electrodynamics (spring 2003, spring 2002), tutorial  
Classical mechanics (fall 2002, fall 2001), tutorial  
Mathematics for physicists (spring 2001, fall 2000, spring 2000, fall 1999), tutorial

### **High school courses:**

Regular mathematics teacher in 3 classes of junior high school (spring 2001, fall 2000)

## RESEARCH STUDENTS SUPERVISION

### PhD students

- Ihtisham Ul Haq: October 2024 - ...
- Koichi Kato: April 2023 - ...
- Qiwen Sun, Nagoya University (with JRA from RIKEN): *Forecast and control of dynamical systems with data assimilation: Applications to COVID-19 epidemic and to Lorenz models*, October 2019 - September 2022
- Hideki Inoue, Nagoya University (with DC1 from JSPS): *Scattering theory for half-line Schrödinger operators: Analytic and topological results*, April 2018 - September 2020
- Daniel Parra, University of Lyon (with support from CONICYT, Chile): *Spectral and scattering theory for crystal lattices*, Sept. 2013 - Jan. 2017

### Master students

- Kenta Nakanishi (M1 + M2), Nagoya University: *Periodic quantum walks and their perturbations*, April 2021 - March 2023
- Koichi Kato (M2), Nagoya University: *Topological crystals: Independence of spectral properties with respect to reference systems*, April 2020 - March 2023
- Naohiro Tsuzu (M1 + M2), Nagoya University: *Spectral and scattering theory for Schrödinger operators on topological crystals perturbed by infinitely many new edges*, April 2020 - March 2022
- Xin Chen (M1 + M2), Nagoya University: *Scattering properties of Schrödinger operator with surface potential*, Oct. 2018 - Sept. 2020
- Sun Qiwen (M1 + M2), Nagoya University: *The application of tree-based methods on the analysis of MathSciNet database*, Oct. 2017 - Sept. 2019
- Hideki Inoue (M2), Nagoya University: *Index theorems in scattering theory*, April 2017 - March 2018
- Sarra Smara (M2), University of Lyon: *On almost periodic functions*, Jan. - June 2008
- Alexandre Barrat (M2), University of Lyon: *Propagation estimates in scattering theory*, Jan. - June 2008

### Initiation to research

- Tue Tai Nguyen, Nagoya University, April 2024 - ...
- Firdaus Rafi Rizqy, Nagoya University, June 2024 - Sep. 2024 
- Nguyen Duc Thanh, Nagoya University, April 2023 - Nov. 2023 
- Vic Austen, Nagoya University, March 2022 - March 2024 
- Tomoya Tatsuno, Nagoya University, April 2021 - July 2021
- Chang Sun, Nagoya University, January 2021 - July 2021 
- Liyang Zhang, Nagoya University, March 2019 - July 2021 
- Quang Nguyen, Nagoya University, October 2018 - March 2020 
- Song Ha Nguyen, Nagoya University, July 2018 - September 2019 
- Naohiro Tsuzu, Nagoya University, April 2017 - March 2020 
- Benjamin Celaries, ENS Lyon: *Dynamical systems and crossed products*, June - July 2013
- Sènan-Grégory Dossa, ENS Lyon: *Trace and determinant in infinite dimensional Hilbert spaces*, June - July 2013
- Daniel Parra (from Chili), University of Lyon, Oct. 2012 - March 2013
- Harold Bustos (from Chili), University of Lyon, Oct. 2012 - March 2013

## Curriculum Vitae

### Examiner for the PhD thesis of

- Marwa Ennaceur, University of Sfax (Tunisia), *Contribution à l'analyse spectrale de Laplaciens discrets agissant sur les graphes*, March 2021
- Dominic Vella, University of New South Wales (Australia), *Spectral asymptotics associated with Dirac-type operators*, October 2019
- Jérémy Mougel, University of Metz, *Analysis on singular space and operators algebras*, September 2019
- Marc-Adrien Mandich, University of Bordeaux, *Commutateurs, analyse spectrale et application aux opérateurs de Schrödinger discrets*, Novembre 2017
- Galina Levitina, University of New South Wales (Australia), *Witten index, spectral shift function and spectral flow*, October 2017
- Marwa Balti, University of Carthage & University of Nantes : *Laplaciens non auto-adjoints sur un graphe orienté*, May 2017
- Harold Bustos, Universidad de Chile : *Non-abelian duality for  $C^*$ -algebraic covariant structures*, February 2015
- José Garcia Conejeros, Universidad de Chile : *Non-propagation for zero order pseudo-differential operators*, September 2013

### MISCELLANEOUS

Member of     the American Mathematical Society  
                  the French Mathematical Society (Société mathématique de France)  
                  the International Association of Mathematical Physics

Reviewer for MathSciNet (more than 124 reviews) and referee for various mathematical journals

Excellent Teacher Award, Nagoya university, April 2019

### CONFERENCES AND SEMINARS

- Seminar of Analysis, University of Tokyo (JP), July 9, 2024
- Conference **Spectral and Scattering Theory and Related Topics**, Rims Kyoto (JP),  
November 29 - December 1, 2023
- Conference **2nd Chile-Japan Workshop on Mathematical Physics and PDE**, Santiago (Chile),  
September 25 - 28, 2023
- Seminar of operator algebras and noncommutative geometry, Wollongong (Au), February 23, 2023
- Seminar of mathematical physics, Kyushu University, Fukuoka (JP), December 1, 2022
- Conference **Asymptotic Analysis & Spectral Theory**, Oldenburg (D), September 26 - 30, 2022
- Seminar of EDP, University of Besançon (F), September 22, 2022
- Seminar Analysis and EDP, University of Cergy-Pontoise (F), September 19, 2022
- Global Noncommutative Geometry Seminar (worldwide), online, December 6, 2021
- Conference **Himeji Conference on Partial Differential Equations** (JP), online, March 4 - 5, 2021
- Conference **Spectral and Scattering Theory and Related Topics**, Rims Kyoto (JP),  
December 2 - 4, 2019
- Mini-course, Spring School in Analysis and Mathematical Physics, Pontificia Universidad Católica de Chile, Santiago (Chile), Oct. 16 - 18, 2019
- Colloquium of mathematics, Universidad de Chile, Santiago (Chile), August 28, 2019
- Workshop on **Analysis, PDE and mathematical physics**, Central China Normal University, Wuhan (China), July 25 - 26, 2019
- Conference **Spectral theory and mathematical physics**, Santiago (Chile), December 3 - 7, 2018
- Seminar of geometry, University of Savoie (F), September 27, 2018

## Curriculum Vitae

- Seminar geometry, algebra and operator algebras, University Clermont Auvergne (F), Sept. 21, 2018
- Workshop **Scaling invariant structures for spectral analysis and perturbation theory**, RIMS Kyoto (JP), September 10 - 12, 2018
- Workshop **Mathematical aspects of quantum fields and related topics**, RIMS Kyoto (JP), July 2 - 4, 2018
- Conference **Recent topics on PDE**, Chuo University (JP), November 17 - 18, 2017
- Colloquium, Pontificia Universidad Catolica de Chile, Santiago (Chile), September 22, 2017
- Seminar of solid states physics, Nagoya University, June 26, 2017
- Conference **Spectral theory and mathematical physics**, University of Lorraine / Metz (F), May 16 - 18, 2017
- Conference **Advances in non commutative geometry**, University of Kyoto (JP), May 11 - 13, 2017
- Seminar of mathematical physics, WPI AIMR Tohoku University, Sendai (JP), February 23, 2017
- Seminar of mathematical physics, Université de Paris-Sud / Orsay (F), September 21, 2016
- Seminar of mathematics physics, Université de Grenoble (F), September 19, 2016
- Seminar of EDP, analysis and applications, Université de Lorraine / Metz (F), September 16, 2016
- Seminar of analysis, geometry and algebra, Université de Lorraine / Metz (F), September 15, 2016
- Seminar of analysis, Université de Bordeaux (F), September 12, 2016
- Mini-course, School of mathematics, UNSW, Sydney (Australia), March 7 - 11, 2016
- Conference **Spectral and Scattering Theory and Related Topics**, Kyoto (JP), January 20 - 22, 2016
- Seminar of analysis, University of Hyogo, Himeji (JP), November 28, 2015
- Workshop **Quantum walks, random walks and scattering theory on periodic systems**, Nagoya (JP), January 21 - 22, 2015
- Seminar of analysis, University of Tsukuba (JP), December 10, 2014
- Conference **Spectral Theory and Mathematical Physics**, Santiago (Chile), November 24 - 28, 2014
- Seminar of operator algebras, University of Tokyo (JP), October 1, 2014
- Seminar of mathematical physics, University of Lyon 1 (F), March 14, 2014
- Conference **The 6th Nagoya Workshop on Differential Equations**, Nagoya (JP), March 10 - 12, 2014
- Conference **Himeji Conference on Partial Differential Equations**, Himeji (JP), February 20 - 21, 2014
- Seminar of differential equation, Nagoya University (JP), October 28, 2013
- Conference **Variational and Topological Methods in Nonlinear Phenomena**, Alghero (It), June 24 - 28, 2013
- Seminar on PDE and spectral theory, Pontificia Universidad Catolica de Chile, Santiago (Chile), June 13, 2013
- Seminar of analysis, Université de Nantes (F), May 17, 2013
- Seminar of the C\*-academy, Université d'Orléans (F), January 11, 2013
- Seminar of analysis, Institut Mittag-Leffler, Stockholm (SU), December 6, 2012
- Seminar of probability, statistics and mathematical physics, Université de Lyon (F), October 18, 2012
- Seminar on PDE and spectral theory, Pontificia Universidad Catolica de Chile, Santiago (Chile), July 5, 2012
- Seminar of analysis, Universidad de Chile, Santiago de Chile (Chile), July 4, 2012
- Seminar of analysis, Chuo University, Tokyo (JP), June 13, 2012
- Seminar of analysis, University of Tsukuba (JP), June 12, 2012
- Seminar of analysis, University of Okayama (JP), June 5, 2012
- Seminar of mathematical physics, University of Geneva (CH), May 2, 2012
- Seminar PDE and mathematical physics, University of Bordeaux (F), April 17, 2012
- Seminar of analysis, University of Columbia, Missouri (USA), March 8, 2012

## Curriculum Vitae

- Seminar of analysis, Universidad de Chile, Santiago de Chile (Chile), November 30, 2011
- Seminar of analysis, Pontificia Universidad Catolica de Chile, Santiago (Chile), November 24, 2011
- Seminar of analysis Université d'Orsay (F), September 21, 2011
- Seminar of analysis (HDR defence), Université de Lyon 1 (F), September 16, 2011
- Seminar of mathematics, Ritsumeikan University, Kyoto (JP), June 27, 2011
- Conference **Operator theory & boundary value problems**, Orsay (F), May 25 – 27, 2011
- Seminar of mathematics, Kyoto Institute of Technology, Kyoto (JP), February 24, 2011
- Conference **Spectral and Scattering Theory and Related Topics**, Rims Kyoto (JP),  
February. 16 - 18, 2011
- Conference **The 3rd Nagoya Workshop on Differential Equations**, Nagoya (JP),  
February 14 - 15, 2011
- Seminar of mathematics, Institute for the Physics and Mathematics of the Universe (IPMU), Kashiwa,  
Tokyo (JP), December 14, 2010
- Seminar of analysis, University of Tsukuba (JP), December 1, 2010
- Seminar of mathematical physics, University of Sapporo, Hokkaido (JP), November 19, 2010
- Seminar of analysis, University of Hyogo, Himeji (JP), November 10, 2010
- Seminar of analysis, Pontificia Universidad Catolica de Chile, Santiago (Chile), May 6, 2010
- Cardiff Analysis Seminar, Cardiff (UK), March 24, 2010
- Conference **Spectral and scattering theory on graphs**, Tsukuba (JP), March 8 - 9, 2010
- Seminar: spectral problems in mathematical physics, Paris (F), February 8, 2010
- London analysis and probability seminar, Imperial College London (UK), January 28, 2010
- Seminar of analysis, University of Loughborough (UK), October 15, 2009
- Conference **ISAAC Congress**, London (UK), July 13 - 18, 2009
- Seminar of analysis, King's College London (UK), February 16, 2009
- Seminar of mathematical physics, University of Cambridge (UK), January 27, 2009
- Seminar of applied mathematics, University of Cambridge (UK), October 24, 2008
- Conference **Spectral and Scattering Theory for Quantum Magnetic Systems**, Marseille (F),  
July 7 - 11, 2008
- Seminar of analysis, University of Tsukuba (JP), January 23, 2008
- Seminar of analysis, University of Tokyo (JP), January 22, 2008
- Conference **Spectral and Scattering Theory and Related Topics**, Kyoto (JP), January 15 - 17, 2008
- Conference **10th Quantum Mathematics International Conference**, Moeciu (RO),  
September 10 - 15, 2007
- Seminar of mathematical physics, Université de Lille (F), November 14, 2006
- Seminar of mathematical physics, Université de Grenoble (F), November 7, 2006
- Seminar of analysis, King's College London (UK), October 12, 2006
- Seminar of pure mathematics, University of Leicester (UK), October 9, 2006
- Seminar of analysis, University of Birmingham (UK), October 5, 2006
- Conference **Operators theory in Quantum Physics**, Prague (CZ), September 9 - 14, 2006
- Conference **Spectral Theory and its Applications**, Newton Institute, Cambridge (UK),  
July 24 - 28, 2006 (poster)
- Seminar of mathematical physics, Université de Paris Sud, Orsay (F), June 27, 2006
- Conference **Spectral Theory and Mathematical Physics, a Conference in Honor of Barry Simon's  
60th Birthday**, California Institute of Technology (USA), March 27 - 31, 2006 (poster)
- Seminar of mathematical physics, Université de Paris Sud, Orsay (F), February 9, 2006
- Seminar on partial differential equations, Université de Rennes (F), January 12, 2006
- Seminar of geometry, algebra and operator algebra, Université Blaise Pascal, Clermont-Ferrand (F),  
December 16, 2005



## Curriculum Vitae

Seminar of applied analysis, Université de Provence (F), October 18, 2005  
Seminar of mathematical physics, Université de Lyon 1 (F), October 7, 2005  
Conference **Operator Algebras and Mathematical Physics**, Bucharest (RO), August 10 - 17, 2005  
Seminar of analysis, Université de Nantes (F), July 5, 2005  
Seminar of geometry, algebra and operator algebra, Université Blaise Pascal, Clermont-Ferrand (F),  
May 13, 2005  
Seminar of theoretical physics, Institut de physique nucléaire de Lyon (F), April 26, 2005  
Seminar of mathematical physics, Université de Cergy-Pontoise (F), April 20, 2005  
Seminar of mathematical physics, Laboratoire de physique théorique d'Orsay (F), April 14, 2005  
Seminar of analysis and topology, Université de Lyon 1 (F), March 2, 2005  
Seminar of analysis and topology, Université de Lyon 1 (F), February 16, 2005  
Seminar of mathematical physics, ETH Zürich (CH), December 17, 2004  
Seminar of mathematical physics, Université de Genève (CH), September 27, 2004  
Conference **Topologie en physique**, Lyon (F), September 24, 2004  
Seminar of theoretical physics, Université de Genève (CH), June 25, 2004  
Seminar of mathematical physics, Université de Lyon 1 (F), April 2, 2004  
Seminar of mathematical physics, Université de Genève (CH), February 9, 2004  
Seminar on partial differential equations, Université de Paris Sud, Orsay (F), November 25, 2003  
Seminar of analysis, Université de Cergy-Pontoise (F), November 24, 2003  
Conference **Operator Algebras and Mathematical Physics**, Sinaia (RO), June 26 - July 4, 2003  
Seminar of theoretical physics, Ecole Polytechnique Fédérale de Lausanne (CH), May 28, 2003  
Conference **Quantum Hamiltonians with magnetic fields**, Bucharest (RO), September 8 - 14, 2002  
Seminar of mathematical physics, Université de Genève (CH), December 17, 2001  
Seminar of theoretical physics, Université de Lausanne (CH), March 15, 1999