

# CURRICULUM VITAE

GIOVANNI FELDER

## PERSONAL INFORMATION

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## EDUCATION

1977–1982	ETH Zurich, Diploma in physics
1982–1986	ETH Zurich, Ph.D., Advisor: Jürg Fröhlich

## POSITIONS HELD

1986–1988	IHES, Bures-sur-Yvette, postdoc
1988–1989	IAS, Princeton, Member
1989–1991	ETH, Institute of Theoretical Physics, senior assistant
1991–1994	ETH, Department of Mathematics, assistant professor
1994–1996	University of North Carolina at Chapel Hill, Department of Mathematics, full professor
1996–2024	ETH, Department of Mathematics, full professor
2024–	ETH, Department of Mathematics, professor emeritus

*Visiting positions:* RIMS, Kyoto (1991), MSRI, Berkeley (2002), Kavli Institute of theoretical physics, Santa Barbara (1990 and 2006), Institut Henri Poincaré, Paris (2007), Massachusetts Institute of Technology, Cambridge (2009), Tokyo University (2009), Radboud University, Nijmegen (2010), IHES, Bures-sur-Yvette (2022)

## AWARDS AND HONORS

1986	ETH medal
1994	Invited speaker at the International Congress of Mathematicians
2008	Golden Owl (ETH teaching prize)
2012	Fellow of the American Mathematical Society
2012	Member of the Academia Europaea

## SELECTED INVITED TALKS

August 1994	Conformal field theory and integrable systems associated with elliptic curves, invited talk, International Congress of Mathematicians, Zurich,
April 2002	From numbers to q-numbers to elliptic numbers: the elliptic gamma function, Mathematics colloquium Berkeley
April 2006	The gamma function and other infinite products, Mathematisches Kolloquium, Universität Bonn
August 2006	The work of Andrei Okounkov (Laudatio), International Congress of Mathematicians, Madrid
January 2008	Feynman graphs and Riemann-Roch-Hirzebruch theorem, Mathematics Colloquium, King's college
October 2009	Holomorphic differential operators and the Riemann-Roch-Hirzebruch formula, Brandeis-Harvard-MIT-Northeastern Joint Mathematics Colloquium, Harvard University
July 2014	Derived representation schemes, Colloquium of the Mathematical Institutes, University of Münster
May 2018	Gauge theory partition functions, representation schemes and random matrices, The Mathematical Legacy of Bertram Kostant, MIT
June 2021	Superstring measure and super period map, String Math 2021, Rio de Janeiro (online)

## ADVISOR EXPERIENCE AND POSTDOCTORAL MENTORING

*PhD students, with year of thesis defense:* Mauro Crivelli (1993), Pierre-Alain Bovier (1995), Anke Schorr (2000), Andrea Cavalli (2001), Lorenzo Tomassini (2002), Benoît Dhérin (2004), Damien Calaque (principal supervisor: Benjamin Enriquez) (2005), Peter Elbau (2006), Markus Engeli (2008), Thomas Willwacher (2009), Andrea Ferrario (2012), Roman Riser (2012), Leonardo Aguirre (2014), Claude Eicher (2016), Claudio Sibilía (2017), Martin Müller-Lennert (2018), Alexander Vitanov (2019), Stefano D'Alesio (2022), Tommaso Botta (2024), Jelena Anic (current)

*Postdocs:* Benjamin Enriquez, now professor at the University of Strasbourg, Boris Shoikhet, now professor at the University of Antwerpen, Chenchang Zhu, now professor at the University of Göttingen, Damien Calaque, now professor at the University of Montpellier, Anton Khoroshkin, now lecturer at the Higher School of Economics, Moscow, Giorgia Fortuna, moved to Wolfram Research, Huafeng Zhang, now Maître de conférences at the University of Lille, Qingtao Chen, now Assistant Professor at NYU Abu Dhabi, Iuliya Beloshapka, now working at Google, Gabriele Rembado, now postdoc at the University of Bonn, Xiaomeng Zhu, now Assistant Professor at Peking University, Michele Schiavina, now Assistant Professor at the University of Pavia, Raschid Abedin (current)

## PROFESSIONAL SERVICE

Editor of Communication of Mathematical Physics, 1993–1998

Editor of Journal of Mathematical Physics, 2010–2014

Associate Editor of Letters in Mathematical Physics, 2009–

Editor of the SISSA Springer Series, 2019–

Editor of Selecta Mathematica, 2020–

Scientific Board of the Centro Stefano Franscini, 1997–2008

Research Commission of ETH Zurich, 2004–2009

Expert for mathematics at the Liceo Lugano 2, 1999–

Selection committees for high school teachers in the Canton Ticino, 2000–

Ambizione Committee, Swiss National Science Foundation, 2014–2023

Scientific Board of the SwissMAP Research Station, since 2020

Scientific Advisory Board of the Department of mathematics, University of Amsterdam, since 2018

Scientific Committee of Labex IMRIA, University of Strasbourg, 2016–

External Advisory Committee of the Kavli IPMU, University of Tokyo 2019–

Academic Advisory Committee of the Institute of Mathematics, Academia Sinica, Taiwan, 2023–

Chair of the Programme Committee ICMS Edinburgh, 2022–

## ADMINISTRATION

2004–2010	Steering Committee of the programme MISGAM (Methods of Integrable Systems in Geometry and Applied Mathematics) of the European Science Foundation
2005–2009	Chair with T. Kappeler of the Zurich Mathematics Colloquium ETH-UZH
2010–2011	Head of the Department of Mathematics, ETH Zurich
2013–2019	Founding Director of the ETH Institute for Theoretical Studies
2014–2022	Co-Director of the National Centre of Competence in Research “SwissMAP”

## GRANTS

1994–1996	US National Science Foundation grant DMS-9400841
2000–2002	Swiss National Science Foundation grant 21-59034.99
2002–2004	Swiss National Science Foundation grant 21-65213.01
2003–2005	Grant of the ETH Research Commission
2004–2008	Swiss National Science Foundation grant 200020-105450
2005–2009	EU Research Training Network ENIGMA (Scientist in charge of the node of Zurich)
2007–2009	Marie Curie Intra-European fellowship, European Commission
2008–2011	Swiss National Science Foundation grant 200020-122126
2011–2014	Swiss National Science Foundation ProDoc programme “Geometry, Algebra, and Mathematical Physics”, grants PDAMP2_137151, PDFMP2_137195
2014–	National Centre of Competence in Research “SwissMAP – The mathematics of physics” of the Swiss National Science Foundation
2020–2023	Swiss National Science Foundation grant 200021_196892
2023–	CaLIGOLA, MSCA Staff Exchanges, Project ID: 101086123, European Commission and SERI

## SELECTED PUBLICATIONS

- [1] Felder, Giovanni. BRST approach to minimal models. *Nuclear Phys. B* 317 (1989), no. 1, 215–236.
- [2] Felder, Giovanni. Conformal field theory and integrable systems associated to elliptic curves. *Proceedings of the International Congress of Mathematicians, Vol. 1, 2 (Zürich, 1994)*, 1247–1255, Birkhäuser, Basel, 1995.
- [3] Cattaneo, Alberto S.; Felder, Giovanni. A path integral approach to the Kontsevich quantization formula. *Comm. Math. Phys.* 212 (2000), no. 3, 591–611.
- [4] Felder, Giovanni; Varchenko, Alexander.  $q$ -deformed KZB heat equation: completeness, modular properties and  $SL(3, \mathbb{Z})$ . *Adv. Math.* 171 (2002), no. 2, 228–275.
- [5] Feigin, Boris; Felder, Giovanni; Shoikhet, Boris. Hochschild cohomology of the Weyl algebra and traces in deformation quantization. *Duke Math. J.* 127 (2005), no. 3,
- [6] Elbau, Peter; Felder, Giovanni. Density of eigenvalues of random normal matrices. *Comm. Math. Phys.* 259 (2005), no. 2, 433–450.
- [7] Engeli, Markus; Felder, Giovanni. A Riemann-Roch-Hirzebruch formula for traces of differential operators. *Ann. Sci. Éc. Norm. Supér. (4)* 41 (2008), no. 4, 621–653.
- [8] Aguirre, Leonardo; Felder, Giovanni; Veselov, Alexander P. Gaudin subalgebras and stable rational curves. *Compos. Math.* 147 (2011), no. 5, 1463–1478.
- [9] Felder, Giovanni; Kazhdan, David. The classical master equation. With an appendix by Tomer M. Schläpfer. *Contemp. Math.*, 610, *Perspectives in representation theory*, 79–137, Amer. Math. Soc., Providence, RI, 2014.
- [10] Berest, Yuri; Felder, Giovanni; Patotski, Sasha; Ramadoss, Ajay; Willwacher, Thomas. Representation homology, Lie algebra cohomology and derived Harish-Chandra homomorphism, *J. Eur. Math. Soc. (JEMS)* 19 (2017), no. 9, 2811–2893.
- [11] Felder, Giovanni; Kazhdan, David. Regularization of divergent integrals. *Selecta Math. (N.S.)* 24 (2018), no. 1, 157–186.
- [12] Felder, Giovanni; Ren, Muze. Quantum groups for restricted SOS models. *SIGMA* 17 (2021), 005, 26 pp