

Diego Noja

Dipartimento di Matematica e Applicazioni Università di Milano Bicocca
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Orcid id <https://orcid.org/0000-0003-1949-9369>

Studies

- 1992 DEGREE IN PHYSICS Università degli Studi di Milano, Advisor Prof. Luigi Galgani
- 1997 PHD IN MATHEMATICS, Advisor Prof. Luigi Galgani, Milano

Present position

FULL PROFESSOR OF MATHEMATICAL PHYSICS, Università di Milano Bicocca

Research interests

- Theory of self-adjoint extensions and applications.
Singular perturbations of Schrödinger, wave and Dirac equations and applications to various physical models.
- Models of interaction between particles and classical and quantum fields.
- Linear and nonlinear dispersive equations on singular structures.
Analysis of well-posedness in the presence of defects on the line and in higher dimensions.
Linear and nonlinear dispersive equations on networks and quantum (or metric) graphs.
Existence, orbital and asymptotic stability of standing waves and solitons for dispersive non linear equations.

Publications

ONGOING PROJECTS

- 2023e Boni F., Noja, D., Scandone R., Isolated singularities of nonlinear elliptic equations and point interactions
- 2025b Caliaro M. Noja D., Asymptotic evolution of NLS solitons on metric graphs
- 2025c Noja D., Raso Stoia F., Point interactions on domains: spectral theory and resonances

PREPRINTS

- 2024a Mugnolo D., Noja D., Seifert C., On solitary waves for the Korteweg–de Vries equation on metric star graphs, <https://arxiv.org/abs/2402.08368>
- 2024b Noja D., Raso Stoia F., Resonances and resonance expansions for point interactions on the half-space, <https://arxiv.org/abs/2410.12998>
- 2025a Gallone M, Michelangeli A, Noja D, Non-relativistic limit of Dirac Hamiltonians with Aharonov-Bohm fields, <https://arxiv.org/abs/2502.20318>

PUBLISHED PAPERS

- 2025a Noja D., Scandone R., Approximation of Schrödinger operators with point interactions on bounded domains, *Bull. Sci. Math.*, **204** 10367 (2025), doi.org/10.1016/j.bulsci.2025.103671
- 2023c Boussaid N., Cacciapuoti C., Carlone, R., Comech A., Noja D., Posilicano A., Spectral stability and instability of solitary waves of the Dirac equation with concentrated nonlinearity, *Communications in Pure and Applied Analysis*, **22** (10): 3029-3067 (2023). doi.org/10.3934/cpaa.2023098
- 2023b Cacciapuoti C., Finco D., Noja D., Failure of scattering for the NLSE with a point interaction in dimension two and three, *Nonlinearity*, **36** (2023) 5298-5310, doi.org/10.1088/1361-6544/acf1ee
- 2023a Finco D, Noja D, Blow-up and instability of standing waves for the NLS with a point interaction in dimension two, *Z. Angew. Math. Phys. (ZAMP)*, **74**:162 (2023), doi.org/10.1007/s00033-023-02056-z
- 2022a Kairzhan A, Noja D, Pelinovsky D, Standing waves on quantum graphs, *J. Phys. A: Math. Theor.*, **55** 243001 (2022) [doi:10.1088/1751-8121/ac6c60](https://doi.org/10.1088/1751-8121/ac6c60)

- 2021a Cacciapuoti C, Finco D, Noja D, Well posedness of the nonlinear Schrödinger equation with isolated singularities, *J. Diff. Eq.*, **305** 288-318 (2021), doi:10.1016/j.jde.2021.10.017
- 2020b Noja D, Pelinovsky D, Standing waves of the quintic NLS equation on the tadpole graph, *Calc. Var. & PDE*, **59**, 173 (2020), doi.org/10.1007/s00526-020-01832-3
- 2020a Cacciafesta F, De Suzzoni A-S, Noja D, A Dirac field interacting with point nuclear dynamics, *Mathematische Annalen*, **376**, 1261–1301 (2020); doi:10.1007/s00208-019-01813-8
- 2019b Noja D, Rolando S, Secchi S, A Note on Sign-Changing Solutions to the NLS on the Double-Bridge Graph, *Symmetry* **2019**, (11), 161, 20p (2019); doi:10.3390/sym11020161
- 2019a Noja D, Rolando S, Secchi S, Standing waves for the NLS on the double-bridge graph and a rational-irrational dichotomy, *J.Diff. Eq.*, **266** (2019) 147–178, doi: 10.1016/j.jde.2018.07.0380022-0396
- 2018b Bertini M, Noja D, Posilicano A, A note on the infrared problem in model field theories, *Rend. Mat. Appl.* **39** (2) (2018), 217–228
- 2018a Mugnolo D, Noja D, Seifert C, Airy-type evolution equations on star graphs, *Analysis & PDE* **11** (7) (2018), 1625-1652. doi: 10.2140/apde.2018.11.1625
- 2017c Cacciapuoti C, Finco D, Noja D, Ground state and orbital stability for the NLS equation on a general starlike graph with potentials, *Nonlinearity*, , **30**, 8, 3271-3303 (2017), doi:10.1088/1361-6544/aa7cc3
- 2017b Cacciapuoti C, Finco D, Noja D, Teta A, The point-like limit for a NLS equation with concentrated nonlinearity in dimension three, *J.Funct.Anal.*, **273**, 1762–1809 (2017) doi:10.1016/j.jfa.2017.04.011
- 2017a Cacciapuoti C, Carlone R, Noja D, Posilicano A, The 1-D Dirac equation with concentrated nonlinearity, *SIAM J. Math. Anal.*, **49**, No. 3 : pp. 2246-2268 (2017), doi:10.1137/16M1084420
- 2016b Adami R, Noja D, Ortoleva C, Asymptotic stability for standing waves of a NLS equation with subcritical concentrated nonlinearity in dimension three: Neutral modes, *DCDS A*, **36**, p. 5837-5879, doi: 10.3934/dcds.2016057
- 2016a Adami R, Cacciapuoti C, Finco D, Noja D, Stable standing waves for a NLS on star graphs as local minimizers of the constrained energy. *J.Diff. Eq.*, **260**, p. 7397-7415, (2016), doi: 10.1016/j.jde.2016.01.029

- 2015b Noja D, Pelinovsky D, Shaikhova G, Bifurcations and stability of standing waves in the nonlinear Schrödinger equation on the tadpole graph, *Nonlinearity*, **28**, p. 2343-2378 (2015), doi: 10.1088/0951-7715/28/7/2343
- 2015a Cacciapuoti C, Finco D, Noja D, Topology-induced bifurcations for the nonlinear Schrödinger equation on the tadpole graph. *Phys.Rev. E*, **91**, 013206 (2015), doi: 10.1103/PhysRevE.91.013206
- 2014d Adami R, Cacciapuoti C, Finco D, Noja D, Constrained energy minimization and orbital stability for the NLS equation on a star graph, *Ann.H.Poincaré, AN*, **31**, p. 1289-1310 (2014), doi: 10.1016/j.anihpc.2013.09.003
- 2014c Cacciapuoti C, Finco D, Noja D, Teta A, The NLS Equation in Dimension One with Spatially Concentrated Nonlinearities: the Pointlike Limit, *Lett.Math.Phys.*, **104**, p. 1557-1570 (2014), doi: 10.1007/s11005-014-0725-y
- 2014b Adami R, Cacciapuoti C, Finco D, Noja D, Variational properties and orbital stability of standing waves for NLS equation on a star graph. *J.Diff.Eq.*, **257**, p. 3738-3777 (2014), doi: 10.1016/j.jde.2014.07.008
- 2014a Adami R, Noja D, Exactly Solvable Models and Bifurcations: the Case of the Cubic NLS with a delta or a delta' Interaction in Dimension One, *Math. Model. Nat. Phenom.*, **9**, (5), 1-16 (2014) doi:10.1051/mmnp/20149501
- 2013d Adami R, Noja D, Visciglia N , Constrained energy minimization and ground states for NLS with point defects. *DCDS B.*, **18**, p. 1155-1188 (2013) doi: 10.3934/dcdsb.2013.18.1155
- 2013c Noja D, Nonlinear Schrödinger equation on graphs: Recent results and open problems, *Phil. Trans. Royal Society A*, **372**, 20130002 (2013), doi:10.1098/rsta.2013.0002
- 2013b Adami R, Noja D, Ortoleva C, Orbital and asymptotic stability for standing waves of a nonlinear Schrödinger equation with concentrated nonlinearity in dimension three *J.Math.Phys.*, **54**, 013501 (2013), doi: 10.1063/1.4772490
- 2013a Adami R, Noja D, Stability and Symmetry-Breaking Bifurcation for the Ground States of a NLS with a δ' Interaction, *Comm. Math. Phys*, **318**, p. 247-289 (2013), doi: 10.1007/s00220-012-1597-6
- 2012b Adami R, Cacciapuoti C, Finco D, Noja D, On the structure of critical energy levels for the cubic focusing NLS on star graphs, *J.Phys. A*, **45**, 1751-8113 (2012), doi:10.1088/1751-8113/45/19/192001

- 2012a Adami R, Cacciapuoti C, Finco D, Noja D, Stationary states of NLS on star graphs. *EPL*, **100**, 10003 (2012), doi: 10.1209/0295-5075/100/10003
- 2011b Adami R, Cacciapuoti C, Finco D, Noja D, Fast solitons on star graphs, *Rev. Math. Phys.*, **23**, p. 409-451 (2011) doi: 10.1142/S0129055X11004345
- 2011a Adami R, Noja D, Nonlinearity-Defect Interaction: Symmetry breaking bifurcation in a NLS with a delta' impurity, *Nanosystems: Physics, Chemistry, Mathematics*, **2** (4), 5-19 (2011)
- 2010 Adami R, Noja D, Sacchetti A, On the Mathematical Description of the Effective Behaviour of the One Dimensional Bose Einstein Condensates with Defects, In *Bose-Einstein Condensates: Theory, Characteristics, and Current Research*, Nova Publishers, pp. 169-197 (2010), ISBN 9781617281143
- 2009 Adami R, Noja D, Existence of dynamics for a 1D NLS equation perturbed with a generalized point defect, *J.Phys.A: Math. Theor.* **42** (2009) 495302 (19pp), doi:10.1088/1751-8113/42/49/495302
- 2006 Bertini M, Noja D, Posilicano A, Dynamics and Lax-Phillips scattering for generalized Lamb models, *J.Phys.A: Math. Gen.* **39** 15173-15195 (2006) doi:10.1088/0305-4470/39/49/007
- 2005b Bertini M, Noja D, Posilicano A, Rigorous dynamics and radiation theory for a Pauli-Fierz model in the ultraviolet limit, *J.Math.Phys.* **46**, 102305 (19pp) (2005) doi:10.1063/2F1.2009607
- 2005a Noja D, Posilicano A, Wave equations with concentrated nonlinearities, *J.Phys.A: Math. Gen.* **38**, 5011-5022 (2005) doi:10.1088/0305-4470/38/22/022
- 2001 Bertini M, Noja D, Posilicano A, Wave equations with point interactions in finite energy spaces, *J.Math.Phys.*, **42**, (5) 2184-2202 (2001) doi:10.1063/1.1360194
- 2000 Noja D, Posilicano A, Delta interactions and electrodynamics of point particles, in *Stochastic Processes, Physics and Geometry: New Interplays II: A Volume in Honor of Sergio Albeverio*, Conference Proceedings Can. Math. Soc. **29**, (2000), ISBN-10: 0-8218-1960-7
- 1999 Noja D, Posilicano A, On the point limit of the Pauli-Fierz model, *Ann.Inst. H.Poincaré' (Phys.Theor.)*, **71** (4), 425-457 (1999)
- 1998 Noja D, Posilicano A, The wave equation with one point interaction and the (linearized) classical electrodynamics of a point particle, *Ann.Inst. H.Poincaré' (Phys.Theor.)*, **68** (3), 351-

377 (1998)

- 1996 Bambusi D, Noja D, On Classical Electrodynamics of Point Particles and Mass Renormalization: Some Preliminary Results, *Lett.Math.Phys.*, **37**, 449-460, (1996)

OTHER PUBLICATIONS

- 1997 D.Bambusi, A.Carati, L.Galgani, D.Noja, J.Sassarini, Dynamical Aspects of Classical Electron Theory, in *Electron Theory and Quantum Electrodynamics 100 Years Later*, J.P.Dowling, Nato ASI series, Plenum Press, New York (1997)
- 1995 D.Bambusi, L.Galgani, D.Noja, Recent Studies in Classical Electrodynamics, in *Stochastic processes, Physics and Geometry II*, S.Albeverio, U.Cattaneo, D.Merlini eds. World Scientific, Singapore (1995)
- 1994 L.Galgani, A. Giorgilli, D.Noja, J.Sassarini, On the Relevance of Classical Electrodynamics for the Foundations of Physics, in *Transport, Chaos and Plasma Physics*, S.Benkadda, F.Doveil, Y.Elskens eds. World Scientific, Singapore (1994)

BIBLIOMETRICS (21-06-2025)

ISI-WOS:	1003 citations;	h-index 18
Scopus:	958 citations;	h-index 18
Google Scholar:	1540 citations;	h-index 22

Editorial Work

- 2019 Special issue of *Symmetry*: "Symmetries of Nonlinear PDEs on Metric Graphs and Branched Networks" (edited with D. Pelinovsky) (2019)
- 2018 Special issue of *Rendiconti di Matematica e delle sue Applicazioni*, **39** (2) (2018) (edited with G.Panati and A.Teta, a volume to celebrate the 85th birthday of Gianfausto Dell'Antonio)

Referee for Scientific Journals:

Analysis and Mathematical Physics (AAMP), Analysis and PDEs, Annales Henri Poincaré, Applicable Analysis, Letters in Mathematical Physics, Journal of Differential Equations, SIAM Journal of Mathematical Analysis, Nonlinearity, Annali SNS, Indiana University

Mathematics Journal, Mathematische Zeitschrift, Zeitschrift für Angewandte Mathematik und Physik (ZAMP), Nonlinear Differential Equations and Applications (NoDEA), Mathematische Nachrichten, Calculus of Variations & PDEs, Discrete and Continuous Dynamical Systems, Journal of Mathematical Analysis and Applications, Differential and Integral Equations, Revista Matemática Iberoamericana, Complex Analysis and Operator Theory, Communications in Pure and Applied Analysis, Nonlinear Analysis, Journal of the London Mathematical Society, Journal of Nonlinear Mathematical Physics, New Journal of Physics, Classical and Quantum Gravity, Wave Motion, Journal of Physics A, Symmetry, Studies in Applied Mathematics, Communications in Partial Differential Equations.

Visiting (selection)

Sapienza Università di Roma, January 2020, (1 week, Prof. A. Teta)
 UNC at Chapel Hill, January-February 2019 (3 weeks, Prof. J.Marzuola)
 UNC at Chapel Hill, April-May 2018 (2 weeks, Prof. J.Marzuola)
 Besancon, July 2017 (1 week, Prof. N.Boussaid)
 Texas AM University, College Station, May 2017 (1 week, Prof. G.Berkolaiko);
 Texas AM University, College Station, February 2016 (1 week, Prof. G.Berkolaiko)
 Hagen, January 2016 (1 week, Prof. D.Mugnolo);
 Rennes, February 2015 (1 week, Prof. Z.Ammari);
 Ulm, December 2012 , (1 week, Prof. D.Mugnolo);

Schools (as lecturer)

"Nonlinear quantum Graphs" Summer School, Valenciennes, 17-21 June 2024 (course lecturer: <https://nqg.sciencesconf.org>)
 "Quantum graphs and quantum random walks", Lake Como School of Advanced Studies, August 4-9, 2019, (Course Lecturer)

Recent conferences and schools (as invited speaker or lecturer)

"Spring School and Workshop "Spectral Theory, Fourier Analysis and PDEs", Bilbao, BCAM, May 12-14, 2025
 "6th Workshop on Nonlinear Dispersive Equations, São Paulo, November 4-8, 2024
 "Future Perspectives on Perturbative Linear and Nonlinear Modelling of Contact-Type Perturbations", Roma, Indam July 8-12, 2024
 "Fractals, quantum graphs and applications in pure and applied sciences", Politecnico di Milano, 25-27 March 2024
 "Quantum and Dynamical 2023 Christmas" Milano, December 19-22, 2023
 "Analytic and algebraic methods in physics XX", August 28 - 31, 2023, Prague

"Trails in Quantum Mechanics and surroundings", SISSA, Trieste, 8-10 February 2023
 "Singular perturbations and geometric structures", SISSA, 21-23 November 2022
 "Zero-Range and Point-Like Singular Perturbations: For a Spillover to Analysis, PDE and Differential Geometry", Oberwolfach, 2-8 October 2022
 "Waves in Venice", Venezia, 5-8 September 2022
 "Indam Quantum Meetings II", Milano, Politecnico, May 23-27, 2022
 "Qualitative Properties of Dispersive PDEs", Roma, Indam, September 2-4, 2021
 "Analysis of PDEs on Networks", 8th European Congress of Mathematics, Mini Workshop, Portorož, June 20-26, 2021
 "Variational methods on graphs and networks", Zagreb, Croatia, February 24-26, 2020
 "Quantum Mechanics of Artificial Material Structures", Sochi, Sirius Mathematics Center, February 16-22, 2020
 "Mathematical Challenges of Zero-Range Physics: rigorous results and open problems" Roma, INdAM, 9 - 13 July 2018
 "Discrete and Continuous Models in the Theory of Networks", ZIF, Bielefeld, November 27-December 1, 2017
 "Rencontres autour de l'équation de Dirac avec des interactions singulières", Besançon, July 10-13, 2017
 "Nonlinear Partial Differential Equations on Graphs", Oberwolfach, June 18 - 24, 2017
 "Contemporary Trends in the Mathematics of Quantum Mechanics", INDAM, Roma, July 4-8, 2016
 "The 11th AIMS Conference on Dynamical Systems, Differential Equations and Applications", Orlando, July 1-5 2016
 "Dynamics Days Central Asia", Khiva, Uzbekistan, 25 - 27 May, 2015
 "Nonlinear Waves in Dispersive Equations" Equadiff 2015, Lyon July 6-11, 2015
 "Modelling and Numerics for Quantum Systems", Toulouse, France, 2-4 September 2015

Recent conferences (as organizer or scientific committee member)

"Singular Interactions and Effective Models in Mathematical Physics", Second workshop, Como - Insubria University, 7-10 July, 2025
 "Singular Interactions and Effective Models in Mathematical Physics", First workshop, Roma - Sapienza University, 15-17 July, 2024
 "Fractals, quantum graphs and applications in pure and applied sciences", Politecnico di Milano, 25-27 March 2024
 "Mathematical Challenges in Quantum Mechanics 2022", Como, June 13-18, 2022 (<https://mcqm.it>)
 "Mathematical Challenges in Quantum Mechanics, Workshop 2021" (<https://mcqm.it/workshop21.html>)
 "Trails in Quantum Mechanics and Surroundings 2018", Politecnico di Torino, Torino, 27-29 September 2018
 "Nonlinear PDEs on Metric Graphs and Branched Networks", Lorentz Center, Leiden, 27-31 August 2018

"Hamiltonian PDEs, Models and Applications" University of Milano-Bicocca, Milano, 25-27 June 2018
 "Mathematical Challenges in Quantum Mechanics", Roma, 19-24 February, 2018
 "Trails in Quantum Mechanics and Surroundings", SISSA, Trieste, 29-30 January 2018
 "Linear and Nonlinear Dirac Equation: advances and open problems", Como, February 8-10, 2017
 "Localization and reducibility in Hamiltonian PDEs and Quantum Mechanics", Milano, December, 16-18, 2015
 "KAM and dispersive methods in Hamiltonian PDEs" Milano, December 1-3, 2014
 "Geometric and Analytic Aspects of Integrable and nearly-Integrable Hamiltonian Systems" Milano, 18-20 June 2014
 "Dispersive PDEs: Models and Dynamics", Pisa, September 18-20 2013
 "IperMiB2013: 15th Italian Meeting on Hyperbolic Equations", Milano, September 11-13, 2013
 "Solitary and dispersive days, Workshop on dispersive and nonlinear aspects of wave and Schrödinger equations", Milano, December 13-18, 2010

Grants; Direction or participation

Next Generation EU - Prin 2022 *Singular Interactions and Effective Models in Mathematical Physics*, Principal Investigator, 2023-2025 (187.319 €)
 "EC Cost action CA18232 - *Mathematical models for interacting dynamics on networks* (coordinator Marjeta Kramar Fijavz) 2019-2024 - Participant
 "EC grant IPaDEGAN" MSCA-RISE-778010: *Integrable Partial Differential Equations: Geometry, Asymptotics, and Numerics* (coordinator G.Falqui) 2018-2023 - Participant
 "FABR" 2017, Ministry individual grant
 "Fondi di Ateneo del Gruppo di Fisica Matematica", Università di Milano Bicocca, 2007- present, P.I.
 GNFM-INDAM "Progetto Giovani" 2009-10 - P.I. ;
 GNFM-INDAM "Progetto Giovani" 2008-09 - P.I. ;
 Fibr 2012 - Participant (National P.I. N.Visciglia);
 Prin 2010-11 - Participant (National P.I. B.Dubrovin)
 Prin 2007 - Participant (National P.I. C.Liverani);
 Prin 2005 - Local coordinator (Milano Bicocca unit, National P.I. D.Bambusi);
 Prin 2003 - Participant (National P.I. A. Giorgilli)

PhD Board

Member of the Faculty Board of the joint PhD program in Mathematics
 Milano Bicocca - Pavia - Indam

Advising

PhD:

Dr. Cecilia Ortoleva (2010-2013)

(co-supervisor R.Adami.; co-tutelle with Prof. Galina Perelman, U.Paris Est);

defence committee H.Bahouri, D. Bambusi, D.Noja, G. Perelman

Dr. Martino Candon (2015-)

Dr. Francesco Raso Stoia (2019-23); defence committee A.Marzocchi, F. Masiero, A.Posilicano
(PhD thesis awarded *cum laude*)

Postdoc:

Dr. Marta Strani (2014, now Professor of Mathematical Analysis in Venezia);

Dr. Federico Cacciafesta (2016-17, now Professor of Mathematical Analysis in Padova)

Dr. Sergio Rolando (2015-16);

Dr. Sergio Rolando (2017-18 and 2019-20)

Dr. Federica Muscolino (2024-25)

Affiliation

"Gruppo Nazionale per la Fisica Matematica" (GNFM) 2001–

"International Association of Mathematical Physics" (IAMP) 2016–

PHD DEFENSE COMMITTEES

2025	Dr. Mario Rastrelli, "Domains and Sobolev spaces associated with Schrödinger Operators with Highly Singular Potentials", Pisa, 4 July 2025
2023	Dr. Alessandro Amabile, "A New Look at the Antikythera Mechanism", Università degli Studi di Napoli Federico II, 5 May 2023 (Referee and member of the Committee)
2022	Dr. Filippo Boni, "Ground states of the NLSE with point-interactions: from metric graphs towards hybrids", Politecnico di Torino, 18 March 2022, (Members: V. Georgiev, D.Noja, H. Tavares)
2020	Dr Andrea Serio, "Extremal eigenvalues and geometry of quantum graphs", Stockholm University, 6 November 2020, (Opponent: Evans Harrell, Georgia Institute of Technology; Evaluation committee: D. Noja, S. Pott, L. O. Silva)
2019-20	Dr Marco Olivieri "Quasi-classical Dynamics of Quantum Particles Interacting with Radiation", Sapienza Università di Roma, 16 January 2020 (Members: D.Benedetto, A.Giuliani, D.Noja)
2018-19	Dr Simone Dovetta "Variational problems for nonlinear Schrödinger equations on metric graphs" Politecnico di Torino, 25 October 2019 (Membri: D.Bonheure, G.Coclite, D.Noja)
2018-19	Dr Matteo Gallone, "Self-adjointness of Quantum Hamiltonian with Symmetries" SISSA, Trieste, 30 Settembre 2019 (Membri: L.Dabrowski, V.Lotoreichik, A.Michelangeli, D.Noja; I was also a referee of this Thesis)
2017-18	Dr Giulia Basti "Low energy behavior in few particle quantum systems: Efimov effect and

- zero-range interactions” Sapienza Università di Roma, 18 Gennaio 2018 (Membri: R.Figari, A. Giuliani, D.Noja; I was also a referee of this Thesis).
- 2017-18 Dr Emanuela Giacomelli ”Surface superconductivity in presence of corners”, Sapienza Università di Roma, 18 Gennaio 2018 (Membri: A. Giuliani, D.Noja, N.Rougerie)
- 2012-13 Dr Cecilia Ortoleva ”Asymptotic properties of the dynamics near stationary solutions for some nonlinear Schrödinger equations” – Cotutelle Università di Milano Bicocca-Université Paris Est, 18 febbraio 2013 (Membri: H.Bahouri, D. Bambusi, D.Noja, G. Perelman; Advisor of the Thesis and member of the joint Milan-Paris committee).

Evaluation of International Research Projects

Evaluation Committee member for ANR- Agence Nationale de la Recherche -Mathematiques (France, 2023).

Committees for University positions

- 2023 President of the committee - ”Procedura selettiva selezione pubblica, per titoli e discussione pubblica, per la copertura di n. 1 posto di ricercatore a tempo determinato tipo A, presso l’Università degli Studi di Bari Aldo Moro, settore concorsuale 01/A4 - settore scientifico-disciplinare MAT/07, indetta con d.r. n 4443 cn-06 del 7 dicembre 2022”
- 2023 President of the committee - ”Procedura selettiva selezione pubblica, per titoli e discussione pubblica, per la copertura di n. 1 posto di ricercatore a tempo determinato tipo A, presso l’Università degli Studi di Bari Aldo Moro, settore concorsuale 01/A4 - settore scientifico-disciplinare MAT/07, indetta con d.r. n 4445 cn-06 del 7 dicembre 2022”
- 2022 Member of the committee ”Procedura selettiva (riservata ai sensi dell’art. 18, comma 4 della Legge 240/2010) per n. 1 posto di Professore Universitario di ruolo - seconda fascia - da coprire mediante chiamata ai sensi dell’art. 18, comma 1, Legge 240/2010 - Settore Concorsuale 01/A4 (Fisica matematica) - s.s.d. MAT/07 (Fisica matematica) presso il Dipartimento di Matematica Giuseppe Peano dell’Università di Torino (decreto rettorale n. 3831 del 22/07/2022)”
- 2021 Member of the committee ”Assegni di ricerca Tipo A2 - 2020 Dipartimento di Matematica e Applicazioni Università di Milano Bicocca (D.R. REP. 6336/2020, PROT. 0075082/20 del 19/10/2020)”
- 2020 Member of the committee ”Procedura selettiva di chiamata per n. 1 posto di ricercatore a tempo determinato di tipologia B presso il Dipartimento di Matematica, Politecnico di Milano, Settore Scientifico-disciplinare MAT/07, Settore concorsuale 01/A4, D.D. 29/07/2020,

N. 5400”

- 2019 Member of the committee ”Conferimento di 1 assegno di ricerca sul tema ”Varietà di Einstein omogenee” Dipartimento di Matematica e Applicazioni Università di Milano Bicocca (Progetto ID-ATESP-0039-CONTI) responsabile prof. Diego Conti”
- 2019 Member of the committee ”Procedura selettiva di chiamata per n. 1 posto di ricercatore a tempo determinato di tipologia A presso il Dipartimento di Matematica, Facoltà di Scienze Matematiche, Fisiche e Naturali della Sapienza Università di Roma, Settore Scientifico-disciplinare MAT/07, Settore concorsuale 01/A4 (bando emanato con D.D. n. 2/2019 del 08/01/2019)”
- 2016 Member of the Committee ”Assegni di ricerca Tipo A2 - 2016 Dipartimento di Matematica e Applicazioni Università di Milano Bicocca (D.R. REP. 2090/2016, PROT. 0036060/16 DEL 04/07/2016)”
- 2006 Member of the Committee ”Valutazione comparativa ad 1 posto di ricercatore universitario per il settore scientifico-disciplinare Mat 07–Fisica Matematica presso la Facoltà di Scienze Matematiche Fisiche e Naturali dell’Università Statale di Milano (nominata con D.R. n. 2620 del 24.3.2005)”

Departmental and Athenaeum service

- 2021-2024 Commissione Paritetica Dipartimento di Matematica e Applicazioni – member
- 2012-2015 Giunta Dipartimento di Matematica e Applicazioni – member
- 2012-2015 Consiglio Scuola di Scienze dell’Ateneo – member

Teaching

UNDERGRADUATE COURSES

2005-06	Classical Mechanics and Dynamical Systems
2003-13	Mathematical Physics I & II (Relativity & PDEs)
2013-17	Mathematical Physics (PDEs)
2017-23	Mathematics II for Chemical Sciences
2020-25	Classical Mechanics and Dynamical Systems

MASTER COURSES

2013-15	Mathematical Methods in Modern Physics
2016-20	Higher Mechanics (Quantum Mechanics for Mathematicians)
2018	Functional Analysis for Material Scientists

PHD COURSES

2016-17	Schrödinger Operators, perturbations of the Laplacian and applications (Milano-Pavia)
2017-18	Nonlinear Dispersive Equations: Theory and Applications (Milano-Pavia)
2019-20	Schrödinger equations on metric graphs: linear and nonlinear (La Sapienza, Roma)
2025-26	The Schrödinger equation, linear and nonlinear (Milano-Pavia)

Milano, 21/06/2025

Diego Noja