Mattia Dalla Brida

Curriculum vitae

Università di Milano-Bicocca Dipartimento di Fisica "G. Occhialini" Piazza della Scienza 3, 20126 Milano, Italy ☎ (+39) 02 6448 2531 ⋈ mattia.dallabrida@unimib.it

Personal information

Date of birth 3rd of December 1986 Nationality Italian

Current position Researcher – Università di Gender Male

Milano-Bicocca & INFN

Previous posts held

10/2016-10/2017 **Assegnista di ricerca**, *Università di Milano-Bicocca & INFN, sezione di Milano-Bicocca*, Italy.

10/2014-09/2016 **Research associate**, *NIC Research Group Elementary Particles, DESY – Zeuthen*, Germany.

Education

Degrees

06/2015 **Ph.D. in Applied Mathematics**, *University of Dublin, Trinity College*, Ireland. Thesis title: "A dynamical study of the chirally rotated Schrödinger functional in lattice QCD". Supervisor: Prof. Stefan Sint.

03/2011 Laurea Specialistica (M.Sc.) in Theoretical and Computation Physics, Università degli Studi di Trento and European Centre for Theoretical Studies in Nuclear Physics and Related Areas (ECT*), Italy. Final grade 110/110 and distinction.

12/2008 Laurea Triennale (B.Sc.) in Physics, $Universit\`{a}$ degli Studi di Trento, Italy. Final grade 110/110 and distinction.

other qualifications

12/2008 Percorso di Approfondimento in Fisica (Excellence Course in Physics), Università degli Studi di Trento, Italy.

Scholarships and grants

12/2011-10/2014 Irish Research Council Embark Initiative, Irish Research Council, Ireland.

05/2011-11/2011 Marie Curie Early Stage Researcher fellowship, STRONGnet Initial Training Network.

09/2010-03/2011 Aurora Science Research Project, Istituto Nazionale Fisica Nucleare (INFN) and ECT*, Italy.

Conferences and Workshops

Conferences

06/2017 The 35th International Symposium on Lattice Field Theory, *Palacio de Congresos*, Granada, Spain.

Poster title: "QCD in a moving frame: an exploratory study".

08-09/2016 XIIth Quark Confinement and the Hadron Spectrum, *Makedonia Palace*, Thessaloniki, Greece.

Talk title: "A precise determination of the $N_f=3~{\rm QCD}~\Lambda$ -parameter from lattice QCD".

07/2016 The 34th International Symposium on Lattice Field Theory, *University of Southampton*, Southampton, UK.

Talk title: "The gradient flow coupling from numerical stochastic perturbation theory".

07/2015 **The 33rd International Symposium on Lattice Field Theory**, *Kobe International Conference Center*, Kobe, Japan.

Talk title: "The chirally rotated Schrödinger functional at work".

Poster title: "Numerical Stochastic Perturbation Theory and Gradient Flow in ϕ^4 Theory".

06/2014 The 32nd International Symposium on Lattice Field Theory, Brookhaven National Laboratory and Columbia University, New York, US.

Talk title: "A dynamical study of the chirally rotated Schrödinger functional in QCD".

07-08/2013 **The 31st International Symposium on Lattice Field Theory**, *Johannes Gutenberg University*, Mainz, Germany.

Talk title: "Numerical Stochastic Perturbation Theory and the Gradient Flow".

Workshops

10/2011 STRONGnet workshop 2011, ECT*, Trento, Italy.

Poster title: "Hadron spectroscopy: stochastic techniques and exotic mesons".

Invited talks and seminars

05/2018 **Frontiers in Lattice Quantum Field Theory**, *Instituto de Física Teórica*, Madrid, Spain.

Talk title: "A novel form of Numerical Stochastic Perturbation Theory".

02/2018 Humboldt University Berlin and NIC Elementary Particles Group at DESY - Zeuthen, DESY, Zeuthen, Germany.

Talk title: "New algorithms for NSPT".

12/2017 **Technical Advances in Lattice Field Theory**, *CP3-Origins*, Odense, Denmark.

Talk title: "Algorithmic advances in NSPT and its applications".

10th International Workshop on Lattice QFT and Numerical Analysis, *University of Coimbra*, Coimbra, Portugal.

Talk title: "Algorithmic advances in NSPT".

03/2015 **Higgs Centre for Theoretical Physics**, *University of Edinburgh, School of Physics & Astronomy*, Edinburgh, UK.

Talk title: "A dynamical study of the chirally rotated Schrödinger functional in lattice QCD".

02/2015 Humboldt University Berlin and NIC Elementary Particles Group at DESY - Zeuthen, DESY, Zeuthen, Germany.

Talk title: "A dynamical study of the chirally rotated Schrödinger functional in QCD".

Research visits & collaborations

10/2016-08/2017 Theoretical Physics Department, CERN, Geneva, Switzerland.

Status: Visiting Scientist

Duration: 1 year

10/2015 Theoretical Physics Department, CERN, Geneva, Switzerland.

Host: Prof. Martin Lüscher

Duration: 2 weeks

02/2015 Università "La Sapienza" di Roma, Rome, Italy.

Host: Dr. Mauro Papinutto

Duration: 1 week

09/2013-09/2014 NIC Research Group Elementary Particles, DESY, Zeuthen, Germany.

Host: Prof. Rainer Sommer

Duration: 1 year

07/2013 **The Cyprus Institute**, Nicosia, Cyprus.

Host: Prof. Constantia Alexandrou

Duration: 3 weeks

06-07/2013 **Theory Division**, CERN, Geneva, Switzerland.

Host: Dr. John Bulava Duration: 3 weeks

11/2012 Università degli Studi di Parma, Parma, Italy.

Host: Dr. Francesco Di Renzo

Duration: 1 week

06/2011 The University of Cyprus, Nicosia, Cyprus.

Host: Prof. Constantia Alexandrou

Duration: 3 weeks

04-08/2011 ECT* and Interdisciplinary Laboratory for Computational Science,

Trento, Italy.

Host: Dr. Luigi Scorzato Duration: 4 months

Teaching

03-06/2018 Ph.D. course: "An introduction to Lattice QCD and its applications", Università di Milano-Bicocca, Milan, Italy.

03-06/2018 **M.Sc. course: "Computational Physics Laboratory"**, *Università di Milano-Bicocca*, Milan, Italy.

Languages

Italian Fluent Mother tongue

English Fluent German Basic

Programming Skills

OS: Unix/Linux, Windows

Languages: C, C++, Python

Softwares: Matlab, Mathematica, Gnuplot Libraries: LAPACK, MPI, openMP, CUDA

Packages: openQCD, MILC, tmLQCD