Argia Rubeo

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Curriculum Vitae et Studiorum

Personal information

Nationality Italian

Date of birth 01/12/1982

Gender Female

Place of birth Tagliacozzo, L'Aquila, Italy

Citizenship Italian

Current Position

September Ph.D. student as "Hamilton Scholar" at Trinity College Dublin, Ireland (3 years

2014 - scholarship)

present

Supervisor Prof. Stefan Sint

Education

22/11/2013 Master degree (Laurea Magistrale) in Particle Physics from "Sapienza",

University of Rome

Final mark 110/110

Title Numerical study of the $q\bar{q}$ static potential in the temporal gauge

Supervisor Prof. Massimo Testa

3/2009 Bachelor Degree (Laurea Triennale) in Physics from "Sapienza", Univer-

sity of Rome

Final mark 97/110

Title Relativistic invariance of Dirac equation

Supervisor Prof. Massimo Testa

Research Interests

High-energy particle physics

Standard Model Physics and beyond

Theoretical aspects of lattice gauge theories

Algorithms and hardware for lattice QCD

Non-perturbative renormalization of QCD parameters

Teaching

- 2016 Teaching assistant for the undergraduate course of *Quantum Mechanics*.

 Degree program in Physics, Trinity College Dublin (TCD), Ireland. (One semester)
- 2015 Tutorials in Linear Algebra for Science students at TCD, (10 hours);

Tutorials in Quantum Mechanics for Physics students at TCD, (10 hours)

Talks and Posters

- 2016 Poster at the conference "34th International Symposium on Lattice Field Theory", Southampton 2016 (http://www.southampton.ac.uk/lattice2016/)
- 2014 Talk at the conference "New Frontiers in Theoretical Physics", Cortona 2014 (https://agenda.infn.it/conferenceDisplay.py?confId=7371)

Conferences, Workshops and Schools

- 2016 Lectures on the Theory of Fundamental Interactions. Galileo Galilei Institute for Theoretical Physics, Arcetri (Florence), Italy
 - Irish Quantum Foundations 2016, Maynooth University, Ireland
- 2015 Lattice Practices 2015, Jülich Supercomputing Centre (JSC), Forschungszentrum Jülich, Germany
 - Irish Quantum Foundations 2015, Dublin Institute for Advanced Studies, Dublin, Ireland
 - Scientific Challenges and Big Computing, Higgs Centre for Theoretical Physics, Edinburgh, UK

Publications

11/2016 PoS LATTICE 2016

Title Tree level cut-off effects in gradient flow couplings with SF boundary conditions

Authors A. Rubeo, S. Sint

PoS LATTICE (2016) 388

08/2015 Physical Review D

Title Color structure of Yang-Mills theory with static sources in a periodic box

Authors L. Giusti, A.L. Guerrieri, S. Petrarca, A. Rubeo, M. Testa

hep-lat (2015)

http://link.aps.org/doi/10.1103/PhysRevD.92.034515

11/2013 PoS LATTICE 2013

Title $q\bar{q}$ -potential: a numerical study

Authors A.L. Guerrieri, S. Petrarca, A. Rubeo, M. Testa

PoS LATTICE (2013) 470

http://arxiv.org/pdf/1311.1325.pdf

Computer skills

Programming C, C++, bash, Gnuplot, ROOT, Octave, LaTeX, MPI, openMP

Operating Linux, Mac OsX and MS Windows

systems

Languages

Italian native language

English proficient level (IELTS certificate)

Academic referees

Prof. phone: +353 1 896 8559, email: sint@maths.tcd.ie

S.Sint

Prof. phone: +39 06 4991 4289 email: massimo.testa@roma1.infn.it

M.Testa

Prof. phone: +39 06 4991 4376, email: silvano.petrarca@roma1.infn.it

S.Petrarca

Dr. phone: +3 1 896 4598 email: marina.marinkovic@cern.ch

M.Marinkovic

Scientific dissemination

- 2016 Author of the chapter related to Particle Physics in the book for highschool students. Editing house "Zanichelli"
- Title "Fisica e realtà", Romeni, second edition.
- 2015 As a winner applicant for the Thesis-in-3 event, I have presented my PhD project, in the context of "Discover Research Dublin, Sept 25th 2015".
 - I participated in a particle Physics masterclass event for secondary school students, explaining and helping students in a data-analysis exercise organized by CERN.
- 2010 I was among the founders of the magazine "accastampato", a journal of scientific divulgation currently distributed in free prints to high schools in Italy (www.accastampato.it).
 - I collaborated with "Frascati Scienza" for "European Researchers' Night 2010"
- 2009 I collaborated as a scientific advisor in the organization of the Science Festival "Il Cielo di Argoli", Tagliacozzo (AQ)