

Giuseppe Nicola Lacagnina – Curriculum Vitae

Programming, mathematical modelling and data analysis

Personal info:

Name: Lacagnina Giuseppe Nicola
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Nationality: italian
Date of birth: 29/07/1974
Driving license: yes

Current job:

Assistant programmer for dbmedia, a company specialized in web applications (<http://www.dbmediaweb.net>). Currently working with PHP5, MySQL and Zend Framework.

Past work experience:

Research contracts in the field of computational high energy physics:

- from October 2007 to October 2009: INFN Milan (Nuclear Physics Institute)
- from October 2005 to October 2007: University of Pisa
- from October 2002 to October 2005: Universitaet Regensburg, Germany
- from October 2000 to October 2002: Edinburgh University, UK

Teaching experience:

- University of Milano: two complete courses in Lattice Field Theory
- University of Pisa: teaching support for the courses of General Physics and Statistical Mechanics
- Universitaet Regensburg: teaching support for the courses of Advanced Quantum Mechanics and Quantum Chromodynamics
- Edinburgh University: teaching support for the course of Computational Physics

Studies:

- from October 1997 to October 2000: Ph.D. In Theoretical Physics, Edinburgh University, UK.
- From October 1993 to October 1997: Degree (Laurea) in Physics, University of Catania, Italy; final mark 110/110 *cum laude*.

Personal skills

Professional goals

In my career, I have formed a professional profile oriented to the computational solution of scientific problems. I have experience in programming, application of mathematical models and statistical analysis of data. I have programmed with C, C++ and Fortran 90. My main activity has been that of translating mathematical models into computer programs (which I wrote), running these on serial or parallel machines, and then retrieving and analysing the outcoming data.

I have recently started a web development activity involving php, mysql and the Zend Framework.

Relational skills

I have a strong attitude towards team work, but I am also capable of independent work. I am used to working in multi-cultural and international environments.

Languages

Native : italian

Other: english (very good for reading, writing and speaking)

german (basis knowledge)

Technical skills:

- OS: Windows, Linux
- programming languages: C, C++, PHP5, Fortran90
- database: MySQL
- packages: Microsoft Office, OpenOffice, gnuplot, xmgrace
- mathematical software: Mathematica, Maple, Matlab
- other: awk, emacs, Outlook

Scientific publications:

Spectral Curves and Localization in Random Non-Hermitian Tridiagonal Matrices, L. G. Molinari, G. N. Lacagnina, arXiv:0905.2489, accettato per la pubblicazione da Journal of Physics A

Matrix elements of heavy-light mesons from a fine lattice, A.Ali Khan, A. Al-Haydari, V. Braun, S. Collins, M. Goeckeler, G.N. Lacagnina, M. Panero, A. Schaefer, G. Schierholz, proceedings of Lattice 2008

Monopole condensation in two-flavour Adjoint QCD, G. Lacagnina, G. Cossu, Massimo D'Elia, A. Di Giacomo, C. Pica., Physical Review D77 (2008)

An update in monopole condensation in two-flavour Adjoint QCD, G. Lacagnina, G. Cossu, M. D'Elia, A. Di Giacomo, C. Pica. Oct 2007. 7pp, arXiv:0710.1713, proceedings of Lattice 2007

Decays of mesons with charm quarks on the lattice, A.Ali Khan, V. Braun, T. Burch, M Gockeler, G. Lacagnina, A. Schafer, G. Schierholz. Proceedings of "Lattice 2007"

Decay constants of charm and beauty pseudoscalar heavy-light mesons on fine lattices. A.Ali Khan, V. Braun, T. Burch, M Gockeler, G. Lacagnina, A. Schafer, G. Schierholz . DESY-07-006, Jan 2007. 13pp., hep-lat/0701015

Monopole condensation in two-flavour Adjoint QCD, G. Lacagnina, G. Cossu, M. D'Elia, A. Di Giacomo, C. Pica, Sep 2006. 5pp., proceedings of "Lattice 2006" (Tucson, USA)

Spontaneous symmetry breaking and proper time flow equations, A. Bonanno, G. Lacagnina, Marzo 2004. 20pp., Nuclear Physics B 693:36-50,2004.

A Lattice calculation of vector meson couplings to the vector and tensor currents using chirally improved fermions, V.M. Braun, T. Burch, C. Gatttringer, M. Gockeler, G.

Lacagnina, S. Schaefer, A. Schafer, Giugno 2003. 6pp., Physical Review D 68:054501,2003

The Paraldor project, T. Ashby, D. Galletly, B. Joo, A.D. Kennedy, G. Lacagnina, Sett. 2002. 4pp, Nuclear Physics Proc.Suppl.119:1006-1008,2003

Semileptonic decays of heavy mesons and the Isgur-Wise function in quenched lattice QCD, K.C. Bowler, G. Douglas, R.D. Kenway, G. Lacagnina, C. Maynard, Feb. 2002. 21pp., Nuclear Physics B 637:293-310,2002

The Isgur-Wise function on the lattice, G. Lacagnina e UKQCD Collaboration, Sett. 2001. 3pp., Nuclear Physics Proc. Suppl. 106:373-375,2002

Decay constants of B and D mesons from nonperturbatively improved lattice QCD, K.C. Bowler, L. Del Debbio, J. M. Flynn, G. Lacagnina, V.I. Lesk, C. Maynard, D.G. Richards, Nuclear Physics B 619:507-537,2001