

CURRICULUM VITÆ

GIANCARLO FERRERA

ADDRESS

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PERSONAL DETAILS

Gender: male
Date of birth: 18/08/1979
Place of birth: Genoa, Italy
Citizenship: Italian

RESEARCH POSITIONS

- | | |
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| from
09/2011 | Assistant Professor (Ricercatore Universitario) at Physics Department, Università di Milano. |
| 11/2011
02/2012 | Visiting Researcher at the Institute for Theoretical Physics, University of Zürich. |
| 07/2009
06/2011 | Postdoc position (Assegno di Ricerca) at Physics Department, Università di Firenze. Project title: <i>LHC Physics and precision theoretical predictions</i> . Supervisor: Prof. D. Dominici. |
| 07/2007
06/2009 | Postdoc position (Assegno di Ricerca) at Physics Department, Università di Firenze. Project title: <i>Precision theoretical predictions and New Physics models at high energies</i> . Supervisor: Prof. M. Ciafaloni. |
| 03/2007 | Research Training grant (High Energy Physics LatinAmerican-European Network), Universidad de Buenos Aires.
Supervisor: Prof. D. de Florian. |
| 12/2006
06/2007 | Postdoc position at Department E.C.M., Universitat de Barcelona.
Early Stage Researcher (Marie Curie Research Training Network HEPTOOLS), contract with Universidad de Granada.
Supervisors: Prof. F. del Águila, Prof. J. Solà |
| 11/2004
10/2006 | Ph.D. studies at the Università di Roma “La Sapienza”.
Project title: <i>Threshold resummation in heavy flavour physics</i> ;
Supervisor: Doct. U. Aglietti. Graduation: 23/01/2007.
Type of Diploma: Dottore di Ricerca in Fisica (Research Doctor in Physics). |

EDUCATION

- 2001-2002 Studies of Theoretical Physics Università di Roma “La Sapienza”;
Theoretical Physics Thesis: *Associated production of Higgs bosons
and charginos in the MSSM at linear colliders*; Supervisors:
Prof. G. Martinelli and Doct. B. Mele.
Graduation: 25/09/2003. Degree: 110/110 cum laude.
Type of Diploma: Dottore in Fisica (Doctor in Physics).
- 1999-2000 Studies of Physics at “Scuola Normale Superiore” di Pisa and
Università di Pisa.

TEACHING ACTIVITY

- 2012/2013 Exercise classes (40 hours) for the course of “Modern Physics
and Quantum Mechanics”, Physics Degree, University of Milan,
held by Prof. S. Forte.
- Exercise classes (20 hours) for the course of “Modern Physics
and Quantum Mechanics”, Physics, University of Milan, held by
Prof. S. Caracciolo.
- Exercise classes (20 hours) for the course of “Modern Physics and
Elements of Quantum Mechanics”, Physics, University of Milan,
held by Prof. P. Bortignon.
- 2011/2012 Exercise classes (20 hours) for the course of “Modern Physics
and Quantum Mechanics”, Physics Degree, University of Milan,
held by Prof. S. Forte.
- Exercise classes (20 hours) for the course of “Modern Physics and
Elements of Quantum Mechanics”, Physics, University of Milan,
held by Prof. P. Bortignon.
- 2006/2007 Exercise classes (30 hours) for the course of “Mathematical Anal-
ysis”, Engineering Degree, University of Rome “La Sapienza”,
held by Prof. R. Gianni.
- 2005/2006 Exercise classes (30 hours) for the course of “Mathematical Anal-
ysis”, Engineering Degree, University of Rome “La Sapienza”,
held by Prof. R. Gianni.
- 2004/2005 Exercise classes (30 hours) for the course of “Quantum Mechan-
ics”, Physics Degree, University of Rome “La Sapienza”, held by
Prof. G. Martinelli.
- Exercise classes (30 hours) for the course of “Mathematical Anal-
ysis”, Engineering Degree, University of Rome “La Sapienza”,
held by Prof. R. Gianni.

PUBLICATIONS (JOURNAL PAPERS)

- [1] G. Ferrera and B. Mele, “Associated production of a light Higgs boson and a chargino pair in the MSSM at linear colliders”, *Eur. Phys. J. C* **42** (2005) 425. [arXiv:hep-ph/0406256].
- [2] U. Aglietti, G. Ricciardi and G. Ferrera, “Threshold resummed spectra in $B \rightarrow X_u l \nu$ decays in NLO. I”, *Phys. Rev. D* **74** (2006) 034004. [arXiv:hep-ph/0507285].
- [3] U. Aglietti, G. Ricciardi and G. Ferrera, “Threshold resummed spectra in $B \rightarrow X_u l \nu$ decays in NLO. II”, *Phys. Rev. D* **74** (2006) 034005. [arXiv:hep-ph/0509095].
- [4] U. Aglietti, G. Ricciardi and G. Ferrera, “Threshold resummed spectra in $B \rightarrow X_u l \nu$ decays in NLO. III”, *Phys. Rev. D* **74** (2006) 034006. [arXiv:hep-ph/0509271].
- [5] U. Aglietti, G. Ferrera and G. Ricciardi, “Semi-Inclusive B Decays and a Model for Soft-Gluon Effects”, *Nucl. Phys. B* **768** (2007) 85. [arXiv:hep-ph/0608047].
- [6] U. Aglietti, G. Corcella and G. Ferrera, “Modelling non-perturbative effects to bottom-quark fragmentation”, *Nucl. Phys. B* **775** (2007) 162. [arXiv:hep-ph/0610035].
- [7] U. Aglietti, L. Di Giustino, G. Ferrera, and L. Trentadue, “Resummed Mass Distribution for Jets Initiated by Massive Quarks”, *Phys. Lett. B* **651** (2007) 275 [arXiv:hep-ph/0612073].
- [8] G. Corcella and G. Ferrera, “Charm-quark fragmentation with an effective coupling constant”, *JHEP* **0712** (2007) 029 [arXiv:0706.2357 [hep-ph]].
- [9] U. Aglietti, L. Di Giustino, G. Ferrera, A. Renzaglia, G. Ricciardi and L. Trentadue, “Threshold Resummation in $B \rightarrow X_c l \nu_l$ Decays”, *Phys. Lett. B* **653** (2007) 38 [arXiv:0707.2010 [hep-ph]].
- [10] G. Ferrera, J. Guasch, D. Lopez-Val and J. Sola, “Triple Higgs boson production in the Linear Collider”, *Phys. Lett. B* **659** (2008) 297 [arXiv:0707.3162 [hep-ph]].
- [11] U. Aglietti, F. Di Lodovico, G. Ferrera and G. Ricciardi, “Inclusive Measure of $|V_{ub}|$ with the Analytic Coupling Model”, *Eur. Phys. J. C* **59** (2009) 831 [arXiv:0711.0860 [hep-ph]].
- [12] U. Aglietti, L. Di Giustino, G. Ferrera and L. Trentadue, “Comment on Resummation of Mass Distribution for Jets Initiated by Massive Quarks,”, *Phys. Lett. B* **670** (2009) 367 [arXiv:0804.3922 [hep-ph]].
- [13] G. Bozzi, S. Catani, D. de Florian, G. Ferrera, M. Grazzini “Transverse-momentum resummation: a perturbative study of Z production at the Tevatron,” *Nucl. Phys. B* **815** (2009) 174 [arXiv:0812.2862 [hep-ph]].

- [14] S. Catani, L. Cieri, G. Ferrera, D. de Florian and M. Grazzini, “*Vector boson production at hadron colliders: a fully exclusive QCD calculation at NNLO,*” Phys. Rev. Lett. **103** (2009) 082001 [arXiv:0903.2120 [hep-ph]].
- [15] S. Catani, G. Ferrera and M. Grazzini, “*W boson production at hadron colliders: the lepton charge asymmetry in NNLO QCD,*” JHEP **1005** (2010) 006 [arXiv:1002.3115 [hep-ph]].
- [16] G. Bozzi, S. Catani, G. Ferrera, D. de Florian and M. Grazzini, “*Production of Drell–Yan lepton pairs in hadron collisions: transverse-momentum resummation at next-to-next-to-leading logarithmic accuracy,*” Phys. Lett. **B696** (2011) 207. [arXiv:1007.2351 [hep-ph]].
- [17] G. Ferrera, M. Grazzini, F. Tramontano, “*Associated WH production at hadron colliders: a fully exclusive QCD calculation at NNLO,*” Phys. Rev. Lett. **107** (2011) 152003 [arXiv:1107.1164 [hep-ph]].
- [18] D. de Florian, G. Ferrera, M. Grazzini and D. Tommasini, “*Transverse-momentum resummation: Higgs boson production at the Tevatron and the LHC,*” JHEP **1111** (2011) 064 [arXiv:1109.2109 [hep-ph]].
- [19] S. Catani, L. Cieri, D. de Florian, G. Ferrera and M. Grazzini, “*Diphoton production at hadron colliders: a fully-differential QCD calculation at NNLO,*” Phys. Rev. Lett. **108** (2012) 072001 [arXiv:1110.2375 [hep-ph]].
- [20] D. de Florian, G. Ferrera, M. Grazzini and D. Tommasini, “*Higgs boson production at the LHC: transverse momentum resummation effects in the $H \rightarrow 2\gamma$, $H \rightarrow WW \rightarrow l\nu l\nu$ and $H \rightarrow ZZ \rightarrow 4l$ decay modes,*” JHEP **1206** (2012) 132 [arXiv:1203.6321 [hep-ph]].
- [21] S. Catani, L. Cieri, D. de Florian, G. Ferrera and M. Grazzini, “*Vector boson production at hadron colliders: hard-collinear coefficients at the NNLO,*” Eur. Phys. J. C **72** (2012) 1. [arXiv:hep-ph/0406256].

PUBLICATIONS (CONFERENCE PROCEEDINGS)

- [22] G. Ferrera and B. Mele, “*Higgs-Boson coupling to charginos in the MSSM at linear colliders*”. Published in the proceedings of 16th Conference on High Energy Physics (IFAE 2004), Turin, Italy, 14-16 Apr 2004. [arXiv:hep-ph/0407108].
- [23] G. Ferrera, “*Threshold resummation in semi-inclusive B decays*”. Published in the proceedings of 4th International Workshop on the CKM Unitarity Triangle (CKM 2006), Nagoya, Japan - December 12-16 2006. [arXiv:0705.0463 [hep-ph]].
- [24] G. Ferrera, “ $|V_{ub}|$ from inclusive B decays and the analytic coupling model”. Published in: “IFAE 2007 Italian Meeting on High Energy Physics”, Carlino, G.; D’Ambrosio, G.; Merola, L.; Paolucci, P.; Ricciardi, G. (Eds.) ISBN: 978-88-470-0746-8

- [25] L. Di Giustino, U. Aglietti, G. Ferrera and L. Trentadue, “*Resummation and mass effects in b decays*”. Published in: ”IFAE 2007 Italian Meeting on High Energy Physics”, Carlino, G.; D’Ambrosio, G.; Merola, L.; Paolucci, P.; Ricciardi, G. (Eds.) ISBN: 978-88-470-0746-8
- [26] G. Ferrera, J. Guasch, D. Lopez-Val and J. Sola, “*Triple Higgs boson production at the ILC within a generic Two-Higgs-Doublet Model*”, PoS **RADCOR2007** (2007) 043 [arXiv:0801.3907 [hep-ph]].
- [27] G. Ferrera, “*Heavy-quark fragmentation: perturbative resummation with the analytic coupling model*”. Incontri di Fisica delle Alte Energie, Bologna, Italy, 26-28 March 2008, Nuovo Cim. **123B** (2008) 766.
- [28] U. Aglietti, F. Di Lodovico, G. Ferrera and G. Ricciardi, “ $|V_{ub}|$ extraction using the Analytic Coupling model,” Nucl. Phys. Proc. Suppl. **185** (2008) 33 [arXiv:0809.4860 [hep-ex]].
- [29] H. Jung *et al.*, “*Proceedings of the workshop: HERA and the LHC workshop series on the implications of HERA for LHC physics*,” arXiv:0903.3861 [hep-ph].
- [30] G. Ferrera, “*Higher-order QCD corrections for vector boson production at hadron colliders*,” Proceedings of the Conference ”Recontres de Moriond” QCD and High Energy Interaction, La Thuile, Italy, 14-21 March 2009, arXiv:0906.2068 [hep-ph].
- [31] G. Ferrera, “*NNLO QCD correction to vector boson production at hadron colliders*,” Proceedings of the 9th International Symposium on Radiative Corrections, RADCOR 2009, Ascona, Switzerland, October 2009. PoS **RADCOR2009**, 061 (2010) [arXiv:1001.3968 [hep-ph]].
- [32] G. Ferrera, “*Higher-order QCD corrections to vector boson production at hadron colliders*,” Proceedings of the 2009 Europhysics Conference on High Energy Physics, Krakow, Poland. PoS E **PS-HEP2009** (2009) 302.
- [33] Z. J. Ajaltouni *et al.*, “*Heavy Flavour Production At The Lhc: Theoretical Aspects*,” Published in *Genf 2008, HERA and the LHC* 331-394.
- [34] G. Ferrera, *Lepton Charge Asymmetry from W decays at hadron colliders in NNLO QCD*, Proceedings of the Conference ”Recontres de Moriond” QCD and High Energy Interaction, La Thuile, Italy, 13-20 March 2010.
- [35] G. Ferrera *NNLO QCD corrections to lepton charge asymmetry in W decays at hadron colliders*, Proceedings of the XVIII International Workshop on Deep-Inelastic Scattering and Related Subjects, Florence, Italy, April 19-April 23 2010. PoS **DIS 2010** (2010) 105.
- [36] G. Ferrera *Threshold resummation with the analytic coupling model in b and c -quark fragmentation*, Proceedings of the XVIII International Workshop on Deep-Inelastic Scattering and Related Subjects, Florence, Italy, April 19-April 23 2010. PoS **DIS 2010** (2010) 155.
- [37] G. Ferrera, *Fully differential NNLO QCD calculations for vector boson and W -Higgs production at hadron colliders*, PoS RADCOR **2011** (2011) 026.

- [38] G. Ferrera, *Diphoton production at hadron colliders in NNLO QCD.*, PoS **LL2012** (2012) 017.
- [39] G. Ferrera, *Drell-Yan lepton pair production: transverse-momentum resummation with leptonic variables dependence*, Proceedings of the Conference "Recontres de Moriond" QCD and High Energy Interaction, La Thuile, Italy, 10-17 March 2012.
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OTHER PUBLICATIONS

- [40] S. Dittmaier, S. Dittmaier, C. Mariotti, G. Passarino, R. Tanaka, S. Alekhin, J. Alwall and E. A. Bagnaschi *et al.*, "*Handbook of LHC Higgs Cross Sections: 2. Differential Distributions*," arXiv:1201.3084 [hep-ph].
- [41] G. Ferrera, "*Threshold resummation in heavy flavour physics*," Ph. D. Thesis in Physics, University of Rome "La Sapienza". Supervisor: Doct. U. Aglietti. Defended on 23/01/2007.
-

CONFERENCES AND TALKS

- Apr. 2013 *Perturbative QCD for the LHC*, "IFAE - Incontri di Fisica delle Alte Energie" - April 4 2013 - Cagliari, Italy, (invited).
- Mar. 2013 *QCD transverse-momentum resummation for Higgs and Vector Boson production at the LHC*, Dipartimento di Fisica, Università di Napoli "Federico II" - March 28 2013 - Napoli, Italy.
- Dec. 2012 *VH cross section working group: Theory status and plans*. "VII LHC Higgs Cross Section Workshop", CERN, Switzerland, December 5-6 2012.
- Oct. 2012 *Theoretical systematics for Low mass Drell-Yan*. "Working Group on Electroweak precision measurements at the LHC", CERN, Switzerland, October 9-10 2011, (invited).
- Sep. 2012 *Higher order QCD corrections for associated VH production at hadron colliders*. "The 4th International Workshop on High Precision for Hard Processes at the LHC", Munich, Germany, September 4-7 2012.
- May. 2012 *VH cross section working group status and plans*. "VI LHC Higgs Cross Section Workshop", CERN, Switzerland, May 24-25 2012, (invited).
- Apr. 2012 *Diphoton production at hadron colliders in NNLO QCD*. "Loops and Legs in Quantum Field Theory", Wernigerode, Germany, April 15-20, 2012, (invited).
- Apr. 2012 *NNLO QCD predictions for Higgs Physics at the LHC*. "Standard Model @ LHC", Copenhagen, Denmark, April 10-13 2012, (invited).

- Mar. 2012 *Drell-Yan lepton pair production: transverse-momentum resummation with leptonic variables dependence.* “Rencontres de Moriond QCD and High Energy Interactions”, La Thuile (Aosta), Italy, March 10-17 2012.
- Nov. 2011 *Higher order QCD corrections for Drell-Yan production* “Working Group on Electroweak precision measurements at the LHC”, CERN, Switzerland, November 28-30 2011.
- Sep. 2011 *Fully differential NNLO QCD calculations for vector boson and W-Higgs production at hadron colliders.* “RADCOR11 - 10th International Symposium on Radiative Corrections”, Mamallapuram, Tamil Nadu, India September 26-30 2011.
- Jun. 2011 “International School of Subnuclear Physics”, Erice, Italy, June 24-July 3 2011, (invited).
- Apr. 2011 “First meeting of the LHC Working Group on Electroweak precision measurements”, CERN, Switzerland, April 4-5 2011.
- Feb. 2011 *Transverse-momentum resummation in Drell-Yan process at NNLL accuracy.* “Kick-off meeting of the LHCPheNet Initial Training Network”, Valencia, Spain, January 31-February 4 2011.
- Dec. 2010 *Transverse momentum distributions of W and Z bosons at the Tevatron and at the LHC.* “Challenges for Precision Physics at the LHC”, Paris, Italy, September 15-18 2010, (invited).
- Sep. 2010 *Transverse-momentum resummation for Drell-Yan production at NNLL accuracy.* “The 3rd International Workshop on High Precision for Hard Processes at the LHC”, Florence, Italy, September 14-17 2010.
- May. 2010 *W boson production at hadron colliders: the lepton charge asymmetry in NNLO QCD.* “XXXII Convegno Informale di Fisica Teorica”, Cortona, Italy, May 26-29 2010.
- Apr. 2010 *Lepton Charge Asymmetry from W decays at hadron colliders in NNLO QCD,* “DIS 2010 - XVIII International Workshop on Deep-Inelastic Scattering and Related Subjects”, Florence, Italy, April 19-23 2010, (invited).
- Apr. 2010 *Threshold resummation with the analytic QCD coupling for heavy-quark fragmentation,* “DIS 2010 - XVIII International Workshop on Deep-Inelastic Scattering and Related Subjects”, Florence, Italy, April 19-23 2010, (invited).
- Mar. 2010 *DYNNLO: A parton level Monte Carlo for Drell-Yan at NNLO.* “MC4LHC readiness”, CERN, Switzerland, March 29-April 1 2010, (invited).
- Mar. 2010 *W boson production at hadron colliders: the lepton charge asymmetry in NNLO QCD.* “Rencontres de Moriond QCD and High Energy Interactions”, La Thuile (Aosta), Italy, March 13-20 2010.
- Oct. 2009 *NNLO QCD correction to vector boson production at hadron colliders.* “RADCOR09 - 9th International Symposium on Radiative Corrections”, Ascona, Switzerland, October 25-30 2009.

- Jul. 2009 *Higher-order QCD corrections to vector boson production at hadron colliders*. “The 2009 Europhysics Conference on High Energy Physics”, Krakow, Poland, July 16-22 2009.
- Apr. 2009 *Heavy Flavour decay and fragmentation with the Analytic Coupling model* “Sixth Meeting on B Physics”, Ferrara, Italy, March 19-20 2009, (invited).
- Mar. 2009 *Higher-order QCD corrections for vector boson production at hadron colliders* “Rencontres de Moriond QCD and High Energy Interactions”, La Thuile (Aosta), Italy, March 14-21 2009.
- Oct. 2008 *Transverse-momentum resummation for Drell-Yan lepton pair production at hadron colliders*, “High Precision for Hard Processes at the LHC”, - October 7 2008 - Buenos Aires, Argentina, (invited).
- Sep. 2008 *Triple Higgs boson production at the ILC within a generic Two-Higgs-doublet model*, “Workshop LC08: e^+e^- Physics at the TeV scale”, - September 22 2008 - Frascati, Italy, (invited).
- Mar. 2008 *Heavy-quark fragmentation: perturbative resummation and a model for non perturbative corrections*, “IFAE - Incontri di Fisica delle Alte Energie” - March 26 2008 - Bologna, Italy, (invited).
- Dec. 2007 *Determination of $|V_{ub}|$ with the analytic coupling method*, “Joint Workshop on $|V_{ub}|$ & $|V_{cb}|$ at the B-Factories” - December 15 2007 - Heidelberg, Germany, (invited).
- Nov. 2007 *$|V_{ub}|$ from inclusive B decays and a model for soft-gluon effects*, Dipartimento di Fisica, Università di Firenze, Firenze, Italy - November 28 2007.
- Oct. 2007 *Double and Triple Higgs boson production at $O(\alpha_{ew}^3)$ at the ILC within a generic 2HDM*, “RADCOR07 - - 8th International Symposium on Radiative Corrections” - October 4 2007 - Firenze, Italy.
- Apr. 2007 *$|V_{ub}|$ from inclusive B decays and the analytic coupling model*, “IFAE - Incontri di Fisica delle Alte Energie” - April 11 2007 - Napoli, Italy.
- Mar. 2007 *Threshold Resummation in Heavy Flavour Physics*, Departamento de Física, Universidad de Buenos Aires, Buenos Aires, Argentina - March 26 2007.
- Mar. 2007 *Modelling non-perturbative corrections in bottom quark fragmentation*, “3rd workshop on the implication of HERA in the LHC” DESY, Hamburg, Germany - March 13 2007.
- Feb. 2007 *Threshold Resummation in Heavy Flavour Physics: from perturbative QCD to data*, Departament E.C.M., Universitat de Barcelona, Barcelona, Spain - February 2 2007.
- Dec. 2006 *Modelling non-perturbative corrections in semi-inclusive B decays*, “BNM2006II - 2nd workshop on B factories and New Measurements”, Nara, Japan - December 18 2006.

- Dec. 2006 *Threshold Resummation in Semi-Inclusive B decays*, “CKM 2006 - 4th International Workshop on the CKM Unitarity Triangle”, Nagoya, Japan - December 12 2006.
- Dec. 2006 *Threshold Resummation in Heavy Flavour Physics*, Laboratoire de Physique Subatomique et de Cosmologie (LPSC), Grenoble, France - December 5 2006.
- May 2006 *Semi-inclusive B decays: from perturbative QCD to data*, Instituto de Física Corpuscular (IFIC) - May 12 2006 - Valencia, Spain.
- May 2006 *Decadimenti semi-inclusivi del B*, Dipartimento di Fisica, Università di Parma - May 9 2006 - Parma, Italy.
- Apr. 2004 *Higgs-Boson coupling to charginos in the MSSM at linear colliders*, “IFAE - Incontri di Fisica delle Alte Energie” - April 15 2004 - Torino, Italy.

WORKSHOP AND CONFERENCE ORGANIZATION

Theory contact of the LHC Higgs Cross Section Working Group for the WH/ZH subgroup (2011-2012).

Co-organizer of the Workshop: “*HP2.3rd - High Precision for Hard Processes at the LHC*”, Florence, Italy, 14-17 September 2010.

SCIENTIFIC PARTECIPATION TO RESEARCH PROJECT

VII Framework Programme European Commission ITN (Initial Training Network) “Advanced Particle Phenomenology in the LHC era” (Scientific Participant).

VI Framework Programme European Commission RTN (Research Training Network) “Tools and Precision Calculations for Physics Discoveries at Colliders” (Early Stage Researcher).

MIUR (Italian University Ministry) Project PRIN 2010-2011 “Symmetries, Masses and Mysteries: Electroweak Symmetry Breaking, Flavour Mixing and CP violation, and Dark Matter in the LHC Era” (Scientific Participant).

MIUR (Italian University Ministry) Project PRIN 2008 “Theory of Fundamental interaction in the LHC Era: precision calculations and models for New Physics” (Scientific Participant).

MIUR (Italian University Ministry) Project 2006 “Beyond the Standard Model Physics in the Large Hadron Collider Era” (Scientific Participant).

LANGUAGE KNOWLEDGE

Italian (native), English (fluent), Spanish (fluent).

REFERENCES

These persons are familiar with my professional qualifications and my character:

Ugo Aglietti	e-mail: ugo.aglietti@roma1.infn.it
Stefano Catani	e-mail: catani@fi.infn.it
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