CURRICULUM VITAE et STUDIORUM

Maria Vittoria Garzelli
born in Torino, Italy, on 23/12/1974.

Present Position and Contact Address

postdoctoral research associate at
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Past Academic Working Activity

* 12/2013 - 07/2014: postdoctoral research associate, MTA-DE Particle Physics Research Group, Hungarian Academy of Sciences and University of Debrecen, Hungary.
* 09/2011 - 09/2013: assistant with Ph.D. (first year) and assistant professor (second year), Laboratory for Astroparticle Physics, University of Nova Gorica, Slovenia.
* 04/2011 - 09/2011: assistant professor, Department of Physics, University of Debrecen, Hungary.
* 12/2008 - 11/2010: italian INFN postdoctoral research fellow abroad at Departamento de Fisica Teorica y del Cosmos, University of Granada, Spain.
* 11/2005 - 10/2008: postdoctoral research fellow, Department of Physics, University of Milano, Italy.
* 03/2005 - 08/2005: postdoctoral research fellow, Department of Physics, University of Milano, Italy.
* 01/2005 - 02/2005: research contract, Nuclear and Theoretical Physics Department, University of Pavia, Italy.
* 08/2003 - 12/2004: postdoctoral research fellow, Department of Physics, University of Houston, US.
* 02/2002 - 07/2003: postdoctoral research fellow, Department of Physics, University of Milano, Italy.

Education and Academic Background

* 07/2005: 1st-level Master in Web, Networking and Wireless Security Technologies, University of Torino, Italy (110/110).
* 12/2001: Ph.D. in Physics, Theoretical Physics Department, University of Torino, Italy.
* 10/1998: M.Sc. in Physics, Theoretical Physics Department, University of Torino, Italy (110/110 cum laude and special honours).
* 07/1993: Secondary school Diploma in Classical Studies (56/60).

Research Fields

* QCD and high-energy physics and phenomenology at hadron colliders (since 2008)
* Astroparticle physics: neutrinos, cosmic rays, solar physics (1998 - 2001, 2006 - 2007, 2012 - 2015)
* Nuclear physics: heavy-ion collisions at non-relativistic energies (2002 - 2008)
* Monte Carlo event generators for particle physics (since 2002)

Publications and impact

Part of my publications can be found in Inspire, other publications can be found in arXiv, Web of Science, Scopus.

The publications in peer-reviewed journals received thus far more than 1000 citations in Inspire, with h-factor 14. More than 7/10 of these citations were obtained for papers published in the last 5 years.

All publications (including working group reports and conference proceedings) received thus far more than 2500 citations in Inspire and more than 2900 citations in Google Scholar. The i10 index in Google Scholar is 34 (23 since 2010).

The total number of papers to which I contributed, published in the last 5 years (2011-2015) in peer-reviewed journals, is 13.

Here is a selection of them:

[1] G. Bevilacqua, M. Czakon, M.V. Garzelli. A. van Hameren, A. Kardos, C.G. Papadopoulos, R. Pittau, M. Worek, *"Helac-NLO"*, Comput. Phys. Commun. **184** (2013) 986-997 [arXiv:1110.1499].

[2] M.V. Garzelli, A. Kardos, C.G. Papadopoulos, Z. Trocsanyi, *"$t\bar{t}W^{\pm}$ and $t\bar{t}Z$ hadroproduction at NLO accuracy in QCD with Parton Shower and Hadronization effects"*, JHEP **11** (2012) 056 [arXiv:1208.2665].

[3] M.V. Garzelli, A. Kardos, C.G. Papadopoulos, Z. Trocsanyi, *"Z^0 boson production in association with a top anti-top pair at NLO accuracy with Parton Shower and Hadronization effects"*, Phys. Rev. D **85** (2012) 074022 [arXiv:1111.1444].

[4] M.V. Garzelli, A. Kardos, C.G. Papadopoulos, Z. Trocsanyi, *"Standard Model Higgs boson production in association with a top anti-top pair at NLO accuracy with parton showering"*, Europhys. Lett. **96** (2011) 11001 [arXiv:1108.0387].

[5] M.V. Garzelli, I. Malamos, *"R2SM: A Package for the analytic computation of the R_2 rational terms in the Standard Model of the Electroweak interactions"*, EPJC **71** (2011) 1605 [arXiv:1010.1248].

For a more extended list of publications, see my website.

Recent talks at Workshops and Conferences (2015)

* *"Implications of recent progress in heavy-quark hadroproduction"*, invited talk at LoopFest/RadCor 2015, Los Angeles, US, June 15 - 19 2015
* *"Prompt neutrino flux in the atmosphere revisited"*, invited talk at the 17th Lomonosov Conference on Elementary Particle Physics, Moscow, Russia, August 20 - 26 2015
* *"Prompt neutrino fluxes from atmospheric charm revisited"*, talk at TAUP 2015, XIV International Conf. on Topics in Astroparticle and Underground Physics, Torino, Italy, September 7 - 11 2015
* *"Present theoretical uncertainties on charm hadroproduction in QCD and prompt neutrino fluxes"*, invited talk at VLVνT 2015, Workshop on Very Large Volume Neutrino Telescopes, Rome, Italy, September 14 - 16 2015
* *"Heavy-quark hadroproduction and prompt neutrino fluxes"*, invited talk at the Workshop "What Next: Sezioni d'urto dei Neutrini", Bologna, Italy, November 9 - 10 2015
* *"b jets at 100 TeV"*, talk at the FCC Workshop "QCD, EW and tools at 100 TeV", CERN, Geneve, Switzerland, October 7 - 9 2015