



Brief Curriculum Vitae

Prof. Dr. Elisa Resconi

Personal Data

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Born 1.12.1971 Brescia, Italy
Citizenship Italian
Family Married, two children (2000, 2003)
Group web page <http://www.cosmic-particles.ph.tum.de/>

Education and Employment

1989 High School graduation
1989 – 1995 Student at Milano University, Italy
1996 M.Sc. in Physics (topic in solar neutrinos, Borexino experiment)
1996 – 1997 Laboratori Nazionali del Gran Sasso, L'Aquila (Italy)
 Fellowship for undergraduate students, solar neutrinos, Borexino experiment
2001 Ph.D., Università degli Studi di Genova and Laboratori Nazionali del Gran Sasso (Italy).
 Supervisor: Prof. G. Manuzio, Prof. R. Raghavan
2002 – 2005 Postdoctoral Fellow, DESY-Zeuthen, Germany. AMANDA, IceCube
2005 – 2010 Head of the Junior Research Group:
 High Energy Neutrino Astronomy with IceCube,
 Max-Planck-Institut-für-Kernphysik, Heidelberg, Germany
02.2011 – 04.2011 Associated Scientist, Excellence Cluster, Technische Universität Munich, Garching, Germany
05.2011 – 08.2011 Guest Professor, Universität Erlangen-Nürnberg, Germany
09.2011 – 11.2011 Associated Scientist, Excellence Cluster, Technische Universität Munich, Garching, Germany
11.2011– present Heisenberg Professorship (DFG),
 Head of the Research Group: *Experimental Physics with Cosmic Particles*,
 Technische Universität München, Garching, Germany

Research Responsibilities

- IceCube Data Analysis Coordinator (2008-2011)
- IceCube Institutional Board representative for MPIK-Heidelberg and now TUM
- Member of the IceCube Coordination Committee, IceCube Speaker Committee, IceCube Publication Committee
- Other projects: PINGU/MICA co-initiator

Teaching and Supervision

- Summer Semester 2011: Neutrino Astronomy, Universität Erlangen-Nürnberg
- October 2009, Lecture at Schule für Astroteilchenphysik Universität Erlangen-Nürnberg
- Summer Semester 2008: Physik IV - Atomic Physics, Universität Heidelberg
- Winter Semester 2007: Particle Astrophysics, Universität Heidelberg
- September 2006, Lectures at the Joint Dutch Belgian German Graduate School, Physikzentrum Bad Honnef

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- December 2005. Lecture at the VIDMAN students meeting, Hamburg
 - 2006: PhD students supervisor

Organization of International Conferences

- TeV Particle Astrophysics 2010, Paris, France 19.-23.07.2010
- High-Energy Gamma-rays and Neutrinos from Extra-Galactic Sources, 2nd Heidelberg, Workshop, MPIK 13.-16. 01. 2009
- Non-Thermal Hadronic Processes in Galactic Sources, 1st Heidelberg Workshop. Max-Planck-Institute for Nuclear Physics, 14.-16. 1. 2008

Referee

- Referee for Astroparticle Physics
- Referee for Agence Nationale de la Recherche (ANR)

Publications to major international peer-reviewed journals

- Summary (from <http://inspirehep.net/author/E.Resconi>)
Total number of papers: 101 of which 74 in refereed journal
Total number of citations: 2,920 for refereed publication
Average citation per paper: 39.5 for refereed publication
h-index: 31
- Resconi, F.A. Aharonian (editors):
Proceedings of the Workshop High-Energy Gamma-rays and Neutrinos from Extra-Galactic Sources, MPIK, Heidelberg, Germany, 2009. International Journal of Modern Physics D, Vol 18, Nr 10, October 2009.

List of the 10 most important papers:

- The IceCube Collaboration (J. Ahrens et al.), Sensitivity of the IceCube detector to astrophysical sources of high energy muon neutrinos, *Astropart.Phys.* 20 (2004) 507-532
- The IceCube Collaboration (A. Achterberg et al.), Five years of searches for point sources of astrophysical neutrinos with the AMANDA-II neutrino telescope, *PRD* 75, (2007) 102001
- S. Schoenert, T.K. Gaisser, E. Resconi, O. Schulz, Vetoing atmospheric neutrinos in high energy neutrino telescopes, *PRD* 79 (2009) 043009
- E. Resconi, D. Franco, A. Gross, L. Costamante, The classification of flaring states of Blazars, *A&A* 502 (2009) 499M-P504
- The IceCube Collaboration (R. Abbasi et al.), The energy spectrum of atmospheric neutrinos between 2 and 200 TeV with the AMANDA-II detector, *Astropart.Phys.* 34 (2010) 48-58
- The IceCube Collaboration (R. Abbasi et al.), Search for a Lorentz-violating sidereal signal with atmospheric neutrinos in IceCube, *PRD* 82 (2010) 112003
- The IceCube Collaboration (R. Abbasi et al.), A Search for a diffuse flux of astrophysical muon neutrinos with the IceCube 40-strings detector, *PRD* 84 (2011) 082001
- The IceCube Collaboration (R. Abbasi et al.), Limits on neutrino emission from Gamma-ray Bursts with the 40-strings IceCube detector, *PRL* 106 (2011) 141101
- The IceCube Collaboration (R. Abbasi et al.), Time-integrated searches for point-like sources of neutrinos with the 40-strings IceCube detector, *ApJ* 732 (2011) 18

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- The IceCube Collaboration (R. Abbasi et al.), Observation of anisotropy in the arrival directions of galactic cosmic rays at multiple angular scales with IceCube, *ApJ* 740 (2011) 16

Granted patents

PCT/EP2005/003200, Owner: DESY, Inventor: E. Resconi; Title of the patent: *Wavelength shifter, method for its production and photomultiplier incorporating a wavelength shifter*. April 2008, Granted from European Patent Office.

Selection of Invited presentations

- Invited Opening Talk, Very Large Volume Neutrino Telescope Workshops 2011, Erlangen, Germany, 2011.
- Invited Talk, XXIV International Conference in Neutrino Physics and Astrophysics, Athens, Greece, 14-19 June, 2010.
- Invited Colloquium, Rutherford Appleton Laboratory (RAL), November 2009.
- Invited Lecture, Schule für Astroteilchenphysik Universität Erlangen-Nürnberg, October 2009.
- Invited Colloquium, Johannes-Gutenberg-Universität Mainz, October 2009.
- Physikalisches Kolloquium Mannheim (in german), Hochschule Mannheim, June 2009.
- Invited Talk, SOCoR, , Trondheim, Norway, June 2009.
- Invited Colloquium, Yale University, February 2009.
- Invited Colloquium, Columbia University, February 2009 .
- Invited Colloquium, TUM, Muenchen, January 2009.
- Invited Colloquium, Eberhard Karls Universität Tübingen, December 2008.
- Invited Colloquium, Johannes-Gutenberg-Universität Mainz, November 2008.
- Invited Talk, Very Large Volume Neutrino Telescope Workshops 2008, Toulon, France.
- Overview Talk, Cosmic Matter Conference, September 2007, Würzburg, Germany.
- Invited Colloquium, RWTH Aachen University, 2007.
- Invited Talk, 2nd Multi-Wavelength Workshop for Next-Generation Gamma-Ray Exp., Chicago, 9-10 August 2007.
- Invited Colloquium, Hamburg University, 2006.
- Invited Talk, 2nd Workshop On TeV Particle Astrophysics, 28-31 August 2006 Madison, USA.
- Invited Talk 2005 Aspen Winter Conference, The Highest Energy Physics, Aspen (Colorado, USA), 2005.
- Invited Talk, 9th Topical Seminar on Innovative Particle and Radiation, Siena (Italy), 2004.
- Invited Talk, Europhysics Neutrino Oscillation Workshop, Amsterdam M-U98, talk.

Prizes / Awards

- 2011, DFG, Heisenberg Professorship
- 2008, Data Analysis Coordinator for the IceCube Neutrino Observatory
- 2005, DFG, Emmy-Noether Junior Research Group
- 2002, The European Commission (FP5), Marie Curie Individual Fellowship