

Hernán Asorey

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Personal Information

Born in Quilmes, Buenos Aires, Argentina, on February 05th, 1974 (38 years old)
Argentinian, married, two daughters.

Current Positions

Permanent Position at Gerencia de Tecnología e Investigación en Altas Energías (Technology and Research in High Energy Physics Department), Bariloche Atomic Centre, National Commission of Atomic Energy (CNEA)

Senior Teaching Assistant (Jefe de Trabajos Prácticos) at Physics Department of Rio Negro National University (UNRN)

Teaching Assistant at Physics Department of Instituto Balseiro, Cuyo National University (UNC)

Previous positions

2006-2012	Ph.D. student, Instituto Balseiro (UNC).
2004-2005	Master in Science, Instituto Balseiro (UNC).
2002-2004	Physics undergraduate student, Instituto Balseiro (UNC).
1994-1995	Teaching assistant at Physics Department, Engineering Faculty, University of Buenos Aires.
1992-1996	Industrial Engineering (first four of five years). University of Buenos Aires.
1992-2001	AIM S.A., metal mechanical industry, R+D department on industrial projects, Buenos Aires, Argentina.

Education

2005	MASTER IN SCIENCE, PHYSICS <i>Orientation:</i> Fields and particle physics <i>Institution:</i> Instituto Balseiro, Bariloche Atomic Centre (CNEA-UNC) <i>Thesis:</i> Event Reconstruction with the Surface Detectors of the Pierre Auger Observatory <i>Advisor:</i> Dr. Ingomar Allekotte
2004	“LICENCIADO” IN PHYSICS

Institution: Instituto Balseiro, Bariloche Atomic Centre (CNEA-UNC)

Honours, Awards & Fellowships

2011	Balseiro Foundation “Best Teacher Award” for outstanding teaching skills at Instituto Balseiro.
2008-2010	Fellowship awarded by the National Council of Scientific and Technical Investigations (CONICET) to obtain a Ph.D. degree.
2006-2007	Fellowship awarded by the Balseiro Foundation and the National Commission of Atomic Energy (FUNC-CNEA).
2005	Fellowship awarded by the National Commission of Atomic Energy (CNEA) to obtain a Master degree in Physics.
2002-2004	Fellowship awarded by the National Commission of Atomic Energy (CNEA) to obtain a Master to study “Licenciatura en Física” at Instituto Balseiro.

Research & Teaching Activities

Since I have earned my master degree in December 2005, I have been involved in the following projects:

PIERRE AUGER OBSERVATORY

See www.auger.org

Member of the Pierre Auger Collaboration since 2006

Ultra High-Energy Cosmic Rays Physics

Data analysis of the Surface Detector

Development of the reconstruction event chain of the Surface Detector

Development and applications of the low energy modes (scaler and histogram modes) of the surface detectors of the Pierre Auger Observatory, for the study of transient events (Gamma Ray Bursts and Forbush events), and short and long term modulation of the galactic cosmic rays flux due to solar activity

CORSIKA and detector simulations, oriented to determine the water-Cherenkov response working in the low energy modes

Data analysis of the weather monitoring system of the Pierre Auger Observatory

LARGE APERTURE GRB OBSERVATORY (LAGO)

Declared of Scientific, Academic and Social interest by the Honourable House of Representatives of the Rio Negro Province, Dec. 42/2010.

See <http://fisica.cab.cnea.gov.ar/particulas/laboratorio/lago>

Member of the LAGO International Collaboration since 2006

Simulations and data analysis for the detection of transient events (GRB and Forbush events), background radiation and atmospheric physics.

Research, development and building of three water-Cherenkov detector prototypes for the LAGO project at Bariloche Atomic Centre. One of them will be installed at the Antarctic Peninsula.

Design and coordination of the experiment “Measurement of Muon Lifetime in Water”, done by undergraduate students at Instituto Balseiro.

CHERENKOV TELESCOPE ARRAY (CTA)

See www.cta-observatory.org

Member of the CTA consortium since 2010

Research and development of the autonomous station for control and data acquisition of the weather station and sky quality meter installed in San Antonio de los Cobres, Argentina, one of the site candidates for the CTA observatory.

ANDES UNDERGROUND LABORATORY

See www.andeslab.org

Estimation and measurements of the expected backgrounds at the ANDES underground lab due to natural radioactivity and high energy atmospheric muons

TEACHING

See www.ib.edu.ar and www.unrn.edu.ar

Teaching assistant, Experimental Physics III and Introduction to nuclear and particle physics courses, Instituto Balseiro (UNC)

Senior teaching assistant, Physics I (introductory physics) course, UNRN.

Publications

SELECTED WORKS

During the development of my work within the Pierre Auger Observatory, I have been acting as the Physics coordinator and responsible of one of the full author list papers of the Pierre Auger Collaboration (The Pierre Auger Collaboration, JINST 6 P01003–P01020 (2011)), using the surface detector in a novel way, developed during my Ph.D. thesis, as a tool to study transient solar phenomena and heliospheric modulation of galactic cosmic rays flux.

This list is a personal selection of the works I have been directly involved:

2012

16. H. Asorey and A. López Dávalos, *Fermi Problem: Power developed at the eruption of the Puyehue-Cordón Caulle volcanic system in June 2011*, Amer. Jour. Phys., submitted, (2012). [arXiv:1109.1165v1](https://arxiv.org/abs/1109.1165v1)[physics.ed-ph] Selected as the best arXiv paper of September 2011 by the [M.I.T. Technology Review Physics arXiv Blog](#), Sept. 2011.

- 2012 15. S. Dasso and H. Asorey, for the Pierre Auger Collaboration, *The scaler mode in the Pierre Auger Observatory to study heliospheric modulation of cosmic rays*, Adv. Space Res. **49** (11), 1563–1569 (2012)
- 2012 14. H. Asorey, M. Arribere, X. Bertou, M. Gómez Berisso, F. Sánchez, *Expected Backgrounds at the ANDES Underground Laboratory* plenary talk given at the Third International Workshop for the Design of the ANDES Underground Laboratory, Valparaíso, Chile, 11–12 Jan 2012.
- 2011 13. The Pierre Auger Collaboration, *The Pierre Auger Observatory Scaler Mode for the Study of the Modulation of Galactic Cosmic Rays due to Solar Activity*, JINST **6** P01003–P01020 (2011). *Coordinator
- 2011 12. I. Allekotte, H. Arnaldi, H. Asorey, X. Bertou, M. Gómez Berisso, M. Sofo Haro, *Development of ultra-fast and ultra low power consumption electronics in the Bariloche Particle and Radiation Detection Laboratory*, poster presentation in the 96th National Reunion SUF-AFA2011 of the Argentinian Physics Association, Montevideo, Uruguay, 20–23 Sept 2011.
- 2011 11. H. Asorey[Pierre Auger Collaboration], *Low energy radiation measurements with the water Cherenkov detector array of the Pierre Auger Observatory*, in Prom. 32^H International Cosmic Ray Conference, vol. 11 462–465, Beijing, China, 11–18 Ago 2011
- 2010 10. J. Blümer and The Pierre Auger Collaboration, *The Northern Site of the Pierre Auger Observatory*, Journal of Physics **12** (3) 035001
- 2010 9. The Pierre Auger Collaboration, *Measurement of the energy spectrum of cosmic rays above 10^{18} eV using the Pierre Auger Observatory*, Phys. Lett. **B685** 239–246 (2010), [arXiv:1002.1975v1\[astro-ph.HE\]](#)
- 2010 8. The Pierre Auger Collaboration, *Trigger and Aperture of the Surface Detector Array of the Pierre Auger Observatory*, NIM **A613** 29–39, (2010)
- 2010 7. H. Asorey[LAGO Collaboration], *The Large Aperture Gamma Ray Burst Observatory (LAGO)*, plenary talk in the 3rd International Workshop of High Energy Physics in the LHC Era HEP2010, Valparaíso, Chile, 4–8 Jan 2010.
- 2009 6. H. Asorey[Pierre Auger Collaboration], *Cosmic Ray Solar Modulation Studies at the Pierre Auger Observatory*, in Proc. 31th International Cosmic Ray Conference, Lodz, Poland, 8–15 Jul 2009.
- 2009 5. The Pierre Auger Collaboration, *Atmospheric effects on extensive air showers observed with the Surface Detector of the Pierre Auger Observatory*, Astropart. Phys. **32**, 89–99, (2009), [arXiv:0906.5497v2\[astro-ph.IM\]](#)
- 2008 4. D. Allard et al. [LAGO Collaboration], *Use of water-Cherenkov detectors to detect Gamma Ray Bursts at the Large Aperture GRB Observatory (LAGO)*, NIM **A595** 70–72 (2008)
- 2007 3. D. Allard et al. [LAGO Collaboration], *Looking for the high energy component of GRBs at the Large Aperture GRB Observatory*, in Proc. 30th International Cosmic Ray Conference, Mérida, Mexico, 3–11 Jul 2007.

- 2007 2. The Pierre Auger Collaboration, *Anisotropy studies around the galactic centre at EeV energies with the Auger Observatory*, Astropart. Phys. **27** 244–253 (2007)
- 2006 1. D. Allard et al. [LAGO Collaboration], *The Large Aperture GRB aperture*, in Proc. of the Observational Astronomy in Argentina Workshop, Buenos Aires.

COMPLETE LIST OF JOURNAL PAPERS

- 2012 31. H. Asorey and A. López Dávalos, *Fermi Problem: Power developed at the eruption of the Puyehue-Cordón Caulle volcanic system in June 2011*, Amer. Jour. Phys., submitted, (2012) [arXiv:1109.1165v1](#)[physics.ed-ph]
- 2012 30. S. Dasso and H. Asorey, for the Pierre Auger Collaboration, *The scaler mode in the Pierre Auger Observatory to study heliospheric modulation of cosmic rays*, Adv. Space Res. **49** (11), 1563–1569 (2012)
- 2012 29. The Pierre Auger Collaboration, *Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy*, Exper. Astron. **32** (3), 193–316 (2012)
- 2012 28. The Pierre Auger Collaboration, *Description of atmospheric conditions at the Pierre Auger Observatory using the Global Data Assimilation System (GDAS)*, Astropart. Phys. **35** (9), 591–607 (2012)
- 2012 27. The Pierre Auger Collaboration, *The effect of the geomagnetic field on cosmic ray energy estimates and large scale anisotropy searches on data from the Pierre Auger Observatory*, JCAP **2011** (022), 1–23 (2012)
- 2012 26. The Pierre Auger Collaboration, *Search for signatures of magnetically-induced alignment in the arrival directions measured by the Pierre Auger Observatory*, Astropart. Phys. **35** (6), 354–361 (2012)
- 2011 25. The Pierre Auger Collaboration, *Search for Ultra-High Energy Neutrinos in Highly Inclined Events at the Pierre Auger Observatory*, Phys. Rev. **D84**, 122005, 1–16 (2011) [arXiv:1202.1493](#)[astro-ph.HE]
- 2011 24. The Pierre Auger Collaboration, *The Lateral Trigger Probability function for UHE Cosmic Rays Showers detected by the Pierre Auger Observatory*, Astropart. Phys. **35** (5), 266–276 (2011)
- 2011 23. The Pierre Auger Collaboration, *Anisotropy and chemical composition of ultra-high energy cosmic rays using arrival directions measured by the Pierre Auger Observatory*, JCAP **06** 022 (2011), [arXiv:1101.3048v1](#)[astro-ph.HE]
- 2011 22. The Pierre Auger Collaboration, *Advanced functionality for radio analysis in the Offline software framework of the Pierre Auger Observatory*, NIM **A635** 92–102 (2011), [arXiv:1101.4473v1](#)[astro-ph.HE]
- 2011 21. The Pierre Auger Collaboration, *Search for First Harmonic Modulation in the Right Ascension Distribution of Cosmic Rays Detected at the Pierre Auger Observatory*, Astropart. Phys. **34** 627–639 (2011)

- 2011 20. The Pierre Auger Collaboration, *The Pierre Auger Observatory Scaler Mode for the Study of the Modulation of Galactic Cosmic Rays due to Solar Activity*, JINST **6** P01003–P01020 (2011). *Coordinator
- 2010 19. The Pierre Auger Collaboration, *The exposure of the hybrid detector of the Pierre Auger Observatory*, Astropart. Phys. **34**, 368–381 (2011)
- 2010 18. The Pierre Auger Collaboration, *Update on the correlation of the highest energy cosmic rays with nearby extragalactic matter*, Astropart. Phys. **34**, 314–326 (2010), arXiv:1009.1855v2[astro-ph.HE]
- 2010 17. The Pierre Auger Collaboration, *The Fluorescence Detector of the Pierre Auger Observatory*, NIM **A620**, 227 (2010), arXiv:0907.4282v1[astro-ph.IM]
- 2010 16. J. Blümer and The Pierre Auger Collaboration, *The Northern Site of the Pierre Auger Observatory*, Journal of Physics **12** (3) 035001 (2010)
- 2010 15. The Pierre Auger Collaboration, *A Study of the Effect of Molecular and Aerosol Conditions in the Atmosphere on Air Fluorescence Measurements at the Pierre Auger Observatory*, Astropart. Phys. **33**, 108–129 (2010), arXiv:1002.0366v1[astro-ph.HE]
- 2010 14. The Pierre Auger Collaboration, *Measurement of the energy spectrum of cosmic rays above 10^{18} eV using the Pierre Auger Observatory*, Phys. Lett. **B685** 239–246 (2010), arXiv:1002.1975v1[astro-ph.HE]
- 2010 13. The Pierre Auger Collaboration, *Measurement of the Depth of Maximum of Extensive Air Showers above 10^{18} eV*, PRL **104** 091101 (2010) arXiv:1002.0699v1[astro-ph.HE]
- 2010 12. The Pierre Auger Collaboration, *Trigger and Aperture of the Surface Detector Array of the Pierre Auger Observatory*, NIM **A613** 29–39, (2010)
- 2009 11. The Pierre Auger Collaboration, *Atmospheric effects on extensive air showers observed with the Surface Detector of the Pierre Auger Observatory*, Astropart. Phys. **32**, 89–99, (2009), arXiv:0906.5497v2[astro-ph.IM]
- 2009 10. The Pierre Auger Collaboration, *Upper limit on the cosmic-ray photon fraction at EeV energies from the Pierre Auger Observatory.*, Astropart. Phys. **31** 399–406 (2009) arXiv:0903.1127v1 [astro-ph.HE]
- 2009 9. The Pierre Auger Collaboration, *Limit on the diffuse flux of ultra-high energy tau neutrinos with the surface detector of the Pierre Auger Observatory.*, Phys. Rev. **D79** 10:1–15 (2009) arXiv:0903.3385v1[astro-ph.HE]
- 2008 8. D. Allard et al. [LAGO Collaboration], *Use of water-Cherenkov detectors to detect Gamma Ray Bursts at the Large Aperture GRB Observatory (LAGO)*, NIM **A595** 70–72 (2008)
- 2008 7. The Pierre Auger Collaboration, *Observation of the Suppression of the Flux of Cosmic Rays above 4×10^{19} eV.*, PRL **101** 061101 (2008)
- 2008 6. The Pierre Auger Collaboration, *Upper limit on the diffuse flux of UHE tau neutrinos from the Pierre Auger Observatory.*, PRL **100** 21101 (2008)

- 2008 5. The Pierre Auger Collaboration, *Upper limit on the cosmic-ray photon flux above 10^{19} eV using the surface detector of the Pierre Auger Observatory.*, Astropart. Phys. **29** 243–256 (2008)
- 2008 4. The Pierre Auger Collaboration, *Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei.*, Astropart. Phys. **29** 188–204 (2008)
- 2007 3. The Pierre Auger Collaboration, *Correlation of the highest energy cosmic rays with nearby extragalactic objects.*, Science **318** 939–943 (2007)
- 2007 2. The Pierre Auger Collaboration, *Anisotropy studies around the galactic centre at EeV energies with the Auger Observatory.*, Astropart. Phys. **27** 244–253 (2007)
- 2007 1. The Pierre Auger Collaboration, *An upper limit to the photon fraction in cosmic rays above 10^{19} eV from the Pierre Auger Observatory.*, Astropart. Phys. **27** 155–168 (2007)

PARTICIPATION & PRESENTATIONS AT SCHOOLS & CONFERENCES

- 2012 22. H. Asorey, M. Arribere, X. Bertou, M. Gómez Berisso, F. Sánchez, *Expected Backgrounds at the ANDES Underground Laboratory* plenary talk given at the Third International Workshop for the Design of the ANDES Underground Laboratory, Valparaíso, Chile, 11–12 Jan 2012.
- 2012 21. H. Asorey [Pierre Auger Collaboration], *Heliospheric Modulation of Cosmic Rays Observed by the Pierre Auger Observatory and the LAGO Project*, parallel talk at the 4th International Workshop of High Energy Physics in the LHC Era HEP2012, Valparaíso, Chile, 4–10 Jan 2012.
- 2011 20. H. Asorey, *Fermi Problem: Power developed at the eruption of the Puyehue-Cordón Caulle volcanic system in June 2011*, invited talk in the 96th National Reunion SUF-AFA2011 of the Argentinian Physics Association, Montevideo, Uruguay, 20–23 Sept 2011.
- 2011 19. I. Allekotte, H. Arnaldi, H. Asorey, X. Bertou, M. Gómez Berisso, M. Sofo Haro, *Development of ultra fast and ultra low power consumption electronics in the Bariloche Particle and Radiation Detection Laboratory*, poster presentation in the 96th National Reunion SUF-AFA2011 of the Argentinian Physics Association, Montevideo, Uruguay, 20–23 Sept 2011.
- 2011 18. H. Asorey [Pierre Auger Collaboration], *Low energy radiation measurements with the water Cherenkov detector array of the Pierre Auger Observatory*, in Proc. 32th International Cosmic Ray Conference, vol. 11 462–465, Beijing, China, 11–18 Ago 2011
- 2011 17. The Pierre Auger Collaboration, *The Pierre Auger Observatory III: Other Astrophysical Observations*, en Proc. 32th International Cosmic Ray Conference, Beijing, China, 11–18 Ago 2011.
- 2010 16. H. Asorey [Pierre Auger Collaboration], *The infill array of the Pierre Auger Observatory*, talk given in the Particle and Fields Division in the 95th National Reunion AFA2011 of the Argentinian Physics Association, Malargüe, Argentina, 28 Sept–01 Oct 2010.

- 2010 15. H. Asorey, J. Castro, A. López Dávalos, *Kepler, Newton, Feynman*, poster presentation in the 95th National Reunion AFA2011 of the Argentinian Physics Association, Malargüe, Argentina, 28 Sept–01 Oct 2010.
- 2010 14. H. Asorey[LAGO Collaboration], *The Large Aperture Gamma Ray Burst Observatory (LAGO)*, plenary talk in the 3rd International Workshop of High Energy Physics in the LHC Era HEP2010, Valparaiso, Chile, 4–8 Jan 2010.
- 2009 13. H. Asorey[Pierre Auger Collaboration], *Cosmic Ray Solar Modulation Studies at the Pierre Auger Observatory*, in Proc. 31th International Cosmic Ray Conference, Lodz, Poland, 8–15 Jul 2009.
- 2009 12. The Pierre Auger Collaboration, *Astrophysical Sources of Cosmic Rays and Related Measurements with the Pierre Auger Observatory*, en Proc. 31th International Cosmic Ray Conference, Lodz, Poland, 8–15 Jul 2009.
- 2009 11. The LAGO Collaboration, *The Large Aperture GRB Observatory*, en Proc. 31th International Cosmic Ray Conference, Lodz, Poland, 8–15 Jul 2009.
- 2009 10. H. Asorey[Pierre Auger Collaboration], *The Acceptance of the Pierre Auger Observatory*, poster presentation in the VII Latinoamerican Symposium of High Energy Physics (SILAFAE), San Carlos de Bariloche, Argentina, 14–21 Jan 2009.
- 2008 9. XVI Course of the ISCRA (International School of Cosmic Ray Astrophysics) 2008: “Gamma Ray and Cosmic Ray Astrophysics: From below GeV to beyond EeV Energies”, Erice, Italia, Julio 2008
- 2008 8. Invited talk “Towards Cosmic ray Solar Modulation Studies”, University of Siegen, Siegen, Germany, 2008.
- 2007 7. D. Allard et al. [LAGO Collaboration], *Looking for the high energy component of GRBs at the Large Aperture GRB Observatory*, in Proc. 30th International Cosmic Ray Conference, Mérida, Mexico, 3–11 Jul 2007.
- 2007 6. IV Latin American School of Strings LASS 07, San Carlos de Bariloche, January 2007.
- 2006 5. H. Asorey[Pierre Auger Collaboration], *The Surface Detector Array of the Pierre Auger Observatory*, parallel talk in the 1st International Workshop of High Energy Physics in the LHC Era HEP2006, Valparaiso, Chile, 12–17 Dec 2006.
- 2006 4. D. Allard et al. [LAGO Collaboration], *The Large Aperture GRB aperture*, in Proc. of the Observational Astronomy in Argentina Workshop, Buenos Aires.
- 2005 3. Third CERN-CLAF Latin American School Of High Energy Physics, CERN, Malargüe, Argentina. Poster presentation: “Event Reconstruction using the Surface Detectors At UHECR Pierre Auger Observatory”
- 2004 2. Sixth J. J. Giambiagi Winter School on Particle Physics, Facultad de Ciencias Exactas y Naturales, University of Buenos Aires. July 2004.
- 2005–2012 1. Sixteen technical and physics talks given at the Pierre Auger Collaboration meetings, Malargüe, Argentina.

Internal notes of the Pierre Auger Observatory (GAP Notes)

See www.auger.org/admin/GAP_Notes.

- 2011 13. R. Ravignani, H. Asorey, D. Melo, G. De La Vega, A. Etchegoyen, A. Ferrero, R. F. Gamarra, B. García, M. Josebachuili, F. Sánchez, I. Sidelnik, A. Tapia, B. Wundheiler, *Observation of the spectrum with the AMIGA infill*, Note 2011-010.
- 2009 12. H. Asorey, I. Allekotte, X. Bertou, M. Gómez Berisso, *Acceptance of generalised Surface Detector Arrays from real data*, Note 2009-155.
- 2009 11. H. Asorey, X. Bertou, D. Thomas, M. Mostafá, *The OMG Hybrid Event*, Note 2011-154.
- 2009 10. H. Asorey, I. Allekotte, X. Bertou, M. Gómez Berisso, *Determining the acceptance of the Pierre Auger Surface Detector with the Infill Array*, Note 2009-112.
- 2009 9. I. Allekotte, H. Asorey, M. Gómez Berisso, *Improving the determination of the Auger Surface Detector Single Station Trigger Probability from real data*, Note 2009-019.
- 2008 8. H. Asorey, X. Bertou, *Determining the Dynamic Range needed for new Surface Detectors.*, Note 2008-117.
- 2008 7. I. Allekotte, H. Asorey, X. Bertou, M. Gómez Berisso, *You thought you understood hexagons?*, Note 2008-114
- 2008 6. S. Grebe, I. Allekotte, H. Asorey, X. Bertou, P. Buchholz, *Robustness of the CDAS reconstruction algorithm.*, Note 2008-112.
- 2008 5. H. Asorey, X. Bertou, *First large timescale analysis of Auger SD scaler data: Towards cosmic ray Solar modulation studies.*, Note 2008-072.
- 2007 4. H. Asorey, I. Allekotte, *Towards a complete set of weather data.*, Note 2007-088.
- 2006 3. H. Asorey, X. Bertou, E. Roulet, *How to improve the SD arrival direction reconstruction by correcting the start-time of individual detectors.*, Note 2006-052.
- 2005 2. H. Asorey, I. Allekotte, M. Gómez Berisso, X. Bertou, *Robustness of the angular reconstruction with the Surface Array of the Auger Observatory.*, Note 2005-107.
- 2005 1. H. Asorey, I. Allekotte, M. Gómez Berisso, X. Bertou, *Robustness of the energy reconstruction with the Surface Array of the Auger Observatory.*, Note 2005-084.

Organising & other Academic Activities

- 2011 Member of the local organising committee of the “First International Workshop for the Design of the ANDES Underground Laboratory”, Constituyentes Atomic Centre, Buenos Aires, Argentina, 11-14 April 2011
- 2010 Member of the local organising committee of the “XI ICFA School on Instrumentation in Elementary Particle Physics”, San Carlos de Bariloche, Argentina, Jan 2010.
- 2010 Member of the local organising committee of the “95th National Reunion of the Argentinian Physics Association”, Malargüe, Argentina, Sept-Oct 2010.

- 2009 Member of the local organising committee of the “VII Latinoamerican Symposium of High Energy Physics (SILAFAE)”, San Carlos de Bariloche, Argentina, January 2009.
- 2005 Member of the Instituto Balseiro Academic Council, elected by the Physics students.

Outreach & Complementary Activities

- 2011 H. Asorey, A. Clúa, A. López Dávalos [One hundred millions of tons in only one day](#), Clarín (national circulation newspaper), 2011. Reproduced in hundreds of Argentinian and international newspapers and media.
- 2011 H. Asorey, *Living with a star*, Solar physics and space weather phenomena talk, oriented to general public and high-school students of the Rio Negro Province. Begin: March-2011
- 2010 *Work of Bariloche Atomic Centre Scientists distinguished* (H. Asorey, X. Bertou, M. Gómez Berisso), El Cordillerano, Bariloche 2000 y ANBariloche, 2010.
- 2010 Laura García, *Latinoamerican network of detectors to study gamma radiation* (H. Asorey, X. Bertou, M. Gómez Berisso), El Cordillerano, Bariloche 2000 and ANBariloche, 2010.
- 2009 H. Asorey, *Astrophysics for everyone*, bimonthly column in the “Nature and technology” local magazine.
- 2008 H. Asorey, *The Pierre Auger Observatory: a look to the Universe to the highest energies*, invited talk oriented for general public, National University of Quilmes, Argentina, April 2008.

Additional Information

Languages: Spanish (mother tongue); English (speaks, read, write); French (read), Italian (read and speaks)

Computing skills: Linux and Windows operative system. Preferred editor: Vim.

Programming skills: C/C++, Perl, Python, HTML, PHP, SQL, and Bash.

Technical computing and data analysis software skills: root, gnuplot, spyder, Mathematica, AutoCAD design software.

References

For references of my work, please contact the following persons:

Dr. Alberto Etchegoyen (alberto.etchegoyen@iteda.cnea.gov.ar)

Dr. Ingomar Allekotte (ingo@cab.cnea.gov.ar)

Dr. Esteban Roulet (roulet@cab.cnea.gov.ar)

Dr. Xavier Bertou (bertou@cab.cnea.gov.ar)

Dr. Piera Luisa Ghia (piera.ghia@lpnhe.in2p3.fr)

Hernán Asorey
May 2012.