CURRICULUM VITAE

Angela V. Olinto

The University of Chicago
Department of Astronomy and Astrophysics
Kavli Institute for Cosmological Physics
Enrico Fermi Institute
5640 S. Ellis Ave., Chicago, IL 60637
ph: (773)834-0287, olinto@kicp.uchicago.edu

Education:
1987: Ph.D. Physics, Massachusetts Institute of Technology, Cambridge, MA Thesis title: *Strange Stars*; Advisor: E. Farhi
1981: B.S. Physics, Pontíficia Universidade Católica, Rio de Janeiro, Brazil.

Present Position:
2016–present: **Homer J. Livingston Distinguished Service Professor** in the Department of Astronomy and Astrophysics and the College, The University of Chicago.
2012–present: **Chair of the Department of Astronomy and Astrophysics**, The University of Chicago.
2006–present: Professor, Kavli Institute of Cosmological Physics, and Enrico Fermi Institute, at The University of Chicago

Previous Positions:
2013–2016: Homer J. Livingston Professor in the Department of Astronomy and Astrophysics and the College, The University of Chicago.
2007: Visiting Professor, Chaire d'Excellence Award, Laboratoire d'AstroParticule et Cosmologie (APC), Université de Paris 7-Denis Diderot.
2003–2006: Chair of the Department of Astronomy and Astrophysics, The University of Chicago.
2002–2006: Associate Professor, Department of Astronomy and Astrophysics, Kavli Institute of Cosmological Physics, Enrico Fermi Institute, and the College, at The University of Chicago
1996–2002: Assistant Professor, Department of Astronomy and Astrophysics and Enrico Fermi Institute, The University of Chicago.
1993-1996: Senior Lecturer and Academic Executive Officer, Department of Astronomy and Astrophysics; Senior Research Associate, Enrico Fermi Institute, The University of Chicago.
1990-1992: Senior Research Associate, Department of Astronomy and Astrophysics, The University of Chicago.
1987-1990 Postdoctoral Research Associate, Theoretical Astrophysics Group, Fermi National Accelerator Laboratory.

Research Interests:
Astroparticle Physics and Cosmology.

Professional Leadership, Service, & Honors:

Research Leadership:

2014-present: **PI of EUSO-SPB** (Extreme Universe Space Observatory on a Super Pressure Balloon) NASA balloon mission - planned flight Spring 2017.
2016-present: **PI of POEMMA** (Probe of Extreme Multi-Messenger Astrophysics) NASA probe study proposal - selections to be announced February 2017.
2012-present: **US PI of JEM-EUSO** (Extreme Universe Space Observatory on-board of the Japanese Experiment Module of the International Space Station) mission - an international collaboration involving 16 countries to discover the origin of the highest energy cosmic rays.
2005-2010: Led the science case, site selection, design, and proposal process for the Northern site of the **Pierre Auger Observatory**.
1996-present: Leadership of the science case and analysis for the 3,000 km^2 Pierre Auger Observatory in Malargue, Argentina, built and operated by a 19 country collaboration.
1985-present: contributions to theoretical particle physics and astrophysics. Significant contributions to the study of the structure of neutron stars, inflationary theory, cosmic magnetic fields, the nature of the dark matter, and the origin of the highest energy cosmic particles: cosmic rays, gamma-rays, and neutrinos.

Honors & Awards:

2016: **Homer J. Livingston Distinguished Service Professor** in the Department of Astronomy and Astrophysics and the College, The University of Chicago.
2014-2015 **Faculty Award for Excellence in Graduate Teaching and Mentoring**, The University of Chicago.
2013–2016: **Homer J. Livingston Professor** in the Department of Astronomy and Astrophysics and the College, The University of Chicago.
2013: **Hess Lecturer** of the 33rd International Cosmic Ray Conference.
2012: Elected Fellow of the **American Association for the Advancement of Science.**
2011: Awarded the Llewellyn John and Harriet Manchester **Quantrell Award for Excellence in Undergraduate Teaching**, The University of Chicago, June 11, 2011.
2006: Awarded **Chaire d'Excellence** of the French Agence Nationale de la Recherche.
2005: Speaker Award of the Particles and Nuclei International Conference (PANIC 05).
2004: Convocation Speaker for the **478th Convocation** at the University of Chicago.
2001: Elected **Fellow of the American Physical Society** (APS).
1991: Awarded the Arthur H. Compton Lecturer, Enrico Fermi Institute, The University of Chicago.

University Leadership:

2016-present: Chair of the **Smart Museum** University Advisory Committee.
2016: established the Astronomy and Astrophysics Minor at the University of Chicago. The Astronomy and Astrophysics Major to be implemented in 2017-2018.
2016-present: Member of the University's Arts Steering Committee.
2015-present: Member of the University's Public Art Committee.

2014-present: Member of the University's **Diversity Advisory Council**.
2014-2015: Member of the President's Committee on **Freedom of Expression**.
2014-2015: Member of the Provost Committee on Latin America to plan a strategy for the University's presence in Latin America.
2011-present: Member of the UChicago Paris Faculty Steering Committee
2011-2014: Chair of the Women in the Physical Sciences Committee of the Physical Sciences Division.
2010-2014: Physical Sciences Division representative on the UChicago FACCTS (France and Chicago Collaborating in the Sciences) program
2008-2011: Member of the Provost Women Leadership Council that produced the **Report on the Status of Academic Women at the University of Chicago** (February 2012).
2007-2008: Initiated the Astronomy Core for the University of Chicago, Paris Center.

National Leadership:

2017-present: Member of Academic Program Review of the Boston University Department of Astronomy.
2013-present: Member Dean's Advisory Committee for the Laboratory for Nuclear Science of the Massachusetts Institute of Technology (MIT).
2016: Chair of the Bethe Prize Committee, American Physical Society.
2015-2016: **Chair of the Astronomy & Astrophysics Advisory Committee** a FACA committee overseeing inter-agency collaboration of NASA, NSF, and DOE.
2015-2016: member of the **Midterm Astronomy and Astrophysics Assessment Committee** of the National Research Council.
2015: member of the Bethe Prize Committee, American Physical Society.
2014-2015: Vice-Chair of the Astronomy & Astrophysics Advisory Committee (advises NASA, NSF, and DOE).
2013-2016: Member of the Astronomy & Astrophysics Advisory Committee (advises NASA, NSF, and DOE).
2013: **Chair, Division of Astrophysics, American Physical Society** (Vice-Chair 2011, Chair-Elect 2012, Past-Chair 2014).
2012-2015: Executive Committee Member of NASA Physics of the Cosmos Program Analysis Group (PhysPAG).
2012-2016: Editorial Committee Member for **Annual Reviews of Nuclear and Particle Science**.
2012: NSF PHYS Committee of Visitors, Chair of Particle Astrophysics.
2011-2012: Member of the **Portfolio Review Committee** of the NSF Division of Astronomical Sciences; report on *Advancing Astronomy in the Coming Decade: Opportunities and Challenges*.
2012: Elected Member of the Electorate Nominating Committee of the American Association for the Advancement of Science.
2011-2013: Member of the Kavli Institute for Theoretical Physics (KITP) Advisory Board.
2010: Chair of the Bethe Prize Committee, American Physical Society.
2009-2010: Member of the **Astronomy and Astrophysics Decadal Survey** (Astro 2010), Panel on Particle Astrophysics and Gravitation (PAG), by the National Research

Council of the National Academy of Sciences.
2009-2010: Chair, Nominating Committee, American Physical Society.
2009: Member of Committee of Visitors, National Science Foundation.
2008: Chair-elect, Nominating Committee, American Physical Society.
2007-2010: Elected Member, Executive Committee of the High Energy Astrophysics Division, American Astronomical Society.
2007: Elected Chair of Nominating Committee, American Physical Society.
2006-2009: Member of HEPAP: High Energy Physics Advisory Panel (advises DOE and NSF).
2004-2010: Member of the Universities Space Research Association (USRA) science council.
2003-2007: editorial committee of the Annual Reviews of Nuclear and Particle Science
2003-2006: Member of the AAAC: Astronomy & Astrophysics Advisory Committee (advises NASA, NSF, and DOE).
2003-2004: Chair of the Tinsley Prize Committee, American Astronomical Society.
2002-2007: Trustee of the Aspen Center for Physics.
2002-2003: Member Neutrino Facilities Assessment Committee, National Research Council.
2002-2004: Member of the Maria Goeppert-Mayer Award Committee, APS. 2001 - 2004: Corporate Secretary of the Aspen Center for Physics.
2001-2003: Member of the AAS Tinsley Prize Committee.
1999-2001: Assist. Corporate Secretary of the Aspen Center for Physics.
1998-2000: Scientific Secretary of the Aspen Center for Physics.
1997-2001: Member of NSAC: Nuclear Science Advisory Board (advises DOE and NSF).
1995-2009: Member of the Aspen Center for Physics.
1992-1994: Secretary-Treasurer of the Division of Astrophysics, American Physical Society.
1992-present: Member of the American Astronomical Society.

International Leadership:

2014-present: Member of the Scientific Advisory Board of Max-Planck-Institute for Nuclear Physics in Heidelberg (MPIK)
2014-2016: Member of the AstroParticle Physics International Committee (APPIC) of the International Union of Pure and Applied Physics (IUPAP) Working Group 10
2003-present: Editor of the *Journal of Cosmology and Astroparticle Physics*, JCAP.
2011-2013: Member of the Scientific Standing Committee of the Kilometer Cube Neutrino Telescope (KM3NeT), the European Consortium to build a next generation High-Energy Neutrino Telescope.
2004-2011: Member of the Particle and Nuclear Astrophysics and Gravitation International Committee (PANAGIC) of IUPAP.
2001-2004: Member of the IAU Working Group on Astroparticle Physics.
1999-2001: Nominating Committee Member, Forum of International Physics, APS.
1993-1997: Executive Committee Member, Forum of International Physics, APS.
1992-1996: Member of the Committee of International Scientific Affairs, APS.

Invited Speaker at Conferences:

• *O ceu nao e o limite: Astrofisica, interdisciplinaridade e o Brasil*, Brazilian Graduate Student Conference (BRASCON), Los Angeles, CA, 11 march 2017.
• *Evolution and Next Generation of Large Cosmic-Ray Experiments*, invited speaker at the APS meeting, Salt Lake City, 19 April 2016.
• *The Highest Energy Particles in Nature* invited speaker at AAAS 2016 Annual Meeting, symposium on Astroparticle Physics: Unravelling Mysteries of the Universe, Washington, DC, 13 February 2016.
• *The Highest Energy Cosmic Particles*, AMS Days at CERN, Geneva, Switzerland, April 15-17, 2015.
• *News from the Extreme Energy Cliff*, JSI workshop, Annapolis, MD, November 2014.
• *The JEM-EUSO Mission*, invited talk at *COSPAR 2014*, August 2014, Moscow, Russia.
• *Space Observatories for Extreme Cosmic Particles*, invited talk at *COSPAR 2014*, August 2014, Moscow, Russia.
• *JEM-EUSO and the future of UHECRs*, invited talk at the *Astroparticle Physics 2014, a joint TeVPA/IDM meeting*, June 2014, Amsterdam, Netherlands.
• *New Results on the Highest Energy Cosmic Rays*, AAAS Annual Meeting, February 2014, Chicago, IL.
• *What are the Sources of UHECRs?*, invited lecture at the Institute of Physics Topical Research Meeting *The Violent Universe*, 1 November 2013, London, UK.
•*Mistérios Cósmicos: o Universo escuro e as Partículas mais energéticas*, Primeiro Simpósio da Comunidade Cientifica Brasileira na Nova Inglaterra, 5 October 2013, MIT, Cambridge, MA
• *Cosmic Particles*, invited lecture at *International Workshop on Astronomy and Relativistic Astrophysics*, 30 September 2013, CBPF, Rio de Janeiro, Brazil.
• *Where do UHECRs come from?*, invited lecture at *International Workshop on Astronomy and Relativistic Astrophysics*, 30 September 2013, CBPF, Rio de Janeiro, Brazil.
• *Where do UHECRs come from?*, Aspen Center for Physics Workshop, 9 September 2013, Aspen, CO.
• *High Energy neutrinos?*, Aspen Center for Physics Workshop, 12 September 2013, Aspen, CO.
• *Where do UHECRs come from?*, KIPAC@10 Big Questions in Particle Astrophysics and Cosmology, 3 September 2013, SLAC, Stanford, CA.
• *Extreme Energy Particles with JEM-EUSO*, TeV Particle Astrophysics, 27 August 2013, Univ. California Irvine, CA.
• *The Bright Side of the Cosmic Frontier: High Energy Cosmic Particles*, DPF Meeting, 14 August 2013, Univ. California Santa Cruz, CA.
• *High Energy Physics and Astrophysics*, *Snowmass on the Mississipi*, 5 August 2013, Univ. of Minnesota, Minneapolis, MN.
• *High Energy Cosmic Particles*, Snowmass on the Mississipi, 3 August 2013, Univ. of Minnesota, Minneapolis, MN.
• *Cosmic Particles*, SLAC Summer Institute, Stanford, CA.

• Hess Lecture of the 33rd International Cosmic Ray Conference 2013, *Mistérios Cósmicos: o Universo escuro e as Partículas mais energéticas*, 8 July 2013, Rio de Janeiro, Brazil.
• JEM-EUSO Collaboration Meeting invited talk on *Current Status of UHECR Science*, , 17 June 2013, Tenerife, Spain.
• CTA-Link Symposium, invited talk on *Overview of Cosmic Ray Research*, 19-21 November 2012, Buenos Aires, Argentina.
• SpacePart12, 4th International Conference on Particle and Fundamental Physics in Space, invited talk on *Cosmic Rays of Extreme Energies*, 5-7 November 2012, CERN, Geneva, Switzerland.
• Natures Particle Accelerators, Joint Space Science Institute Symposium, invited talk on *Cosmic ray observations challenge particle acceleration mechanisms*, 22-25 October 2012, Annapolis, MD.
• PhysPAG meeting, NASA Physics of the Cosmos, invited talk on *Space Opportunities for Cosmic Ray Science*, August 14-16, 2012, Washington, DC.
• International Summer School of AstroParticle Physics (ISAPP 2012), lectures on *Multi-messenger prospective*, 10-11 July 2012, Paris, France.
• Centenary Symposium on Discovery of Cosmic Rays, CR2012, invited talk on *Acceleration and Propagation of UHECR*, 26-28 June 2012, Denver, CO.
• American Physical Society (APS) April meeting, *The JEM-EUSO Mission* contributed and *Future Directions for Extra-Galactic Cosmic Ray Physics* invited talk, March 31 to April 3, 2012, Atlanta, GA.
• II Astroparticle Physics Workshop, invited talk on *Plausible sources of ultrahigh energy cosmic rays*, 5 March 2012, So Carlos, SP, Brazil.
• International Symposium on Future Directions in UHECR Physics, (UHECR 2012), *Theory and phenomenology: summary and outlook*, invited summary talk, 16 February 2012, CERN, Geneva, Switzerland.
• 490th Heraeus Seminar: Radio Detection in Astroparticle Physics, October 2011, Physikzentrum Bad Honnef, Germany
• Topics in Astroparticle and Underground Physics (TAUP), Munchen, Germany, September 2011, invited talk.
• 32th International Cosmic Rays Conference (ICRC) Beijing, August 2011, highlight invited talk.
• Workshop on Primordial Magnetism, Arizona State University, Tempe, AZ, Mar-Apr 2011 *Extragalactic Magnetic Fields & Ultrahigh Energy Cosmic Rays.*
• Symposium on Experiments on the Cosmic Frontier, March 2011, Fermilab, IL, organized and chaired the panel on *Cosmic Particles.*
• The Ins and Outs of Black Holes, November 2010, Annapolis, Maryland, *Do Black Holes Accelerate Particles to the Highest Energies?*
• Neutrino Oscillations Workshop, NOW 2010, September 2010, Otranto, Italy, *UHECR and Neutrinos.*
• XVI ISHECRI (International Symposium on High Energy Cosmic Ray Interactions), June 28-July 2, 2010, Fermilab, IL, USA, *Theoretical Summary.*

• JEM-EUSO special Symposium, University of Alabama in Huntsville, Al; June 25, 2010, *Challenges at Extreme Energies.*
• CCAPP Anisotropies Workshop, Ohio State University, Columbus, OH, 23 June 2010; *Anisotropies at the Highest Energies.*
• Bartol Workshop on Ultra-high energy cosmic ray interactions and the large scale structure of the Universe, Bartol Institute, MD, 10 December 2009, *Auger North.*
• IAU 2009, August 2009, Rio de Janeiro, Brazil; *The Future of Cosmic Ray Astronomy.*
• DPF09, July 2009, Detroit, USA; *Cosmic Particles at the HE Frontier: Cosmic Rays, Gamma-rays, & Neutrinos.*
• TeV Particle Astrophysics 2009, July 2009, Stanford, USA; *New results from ultra-high energy frontier.*
• ICHEP08, August 2008, Philadelphia, USA; *Results from Pierre Auger Observatory, High-energy Gamma-ray Astronomy and Neutrino Astronomy.*
• Symmetries and Phases in the Universe Symposium, Excellence Cluster Universe, June 2008, Kloster Irsee, Germany; *The origin of the highest energy particles.*
• 211th Meeting of the American Astronomical Society, January 2008, Austin, TX: *Next Generation Observatories for Ultra High Energy Cosmic Rays.*
• TeV Particle Astrophysics 2007, 27-31 August 2007, Venice, Italy: *Latest results from the Auger Observatory.*
• Workshop on Future prospects of Ultra-High Energy Cosmic Rays, 23 May 2007, APC, Paris: *Auger North.*
• Astrophysics Enabled By the Return to the Moon, November 28 - 30, 2006, Space Telescope Science Institute, Baltimore, MD: *High Energy Cosmic Rays.*
• Joint Meeting of Pacific Region Particle Physics Communities, November 2006, Honolulu, Hawaii, plenary talk: *A New Era in Particle Astrophysics.*
• 9th Meeting of the AAS High Energy Astrophysics Division (HEAD), October 2006, San Francisco, California: *A New Era of UHE Cosmic Ray and Neutrino Astrophysics.*
• XXVII Encontro Nacional de Física de Partículas e Campos, September 24-28, 2006, Aguas de Lindoia, SP, Brazil: *Astroparticle Physics.*
• International Workshop on *The UHE Universe: a vision for the next decade,* June 19-21, 2006, Monteporzio Catone, Frascati, Italy: *UHECR research in 2015-2025: Auger North and beyond.*
• 14th International Conference on Supersymmetry and the Unification of Fundamental Interactions, 12-17 June, 2006, Irvine, California: *Probing above the Terascale with UHE Cosmic Rays and Neutrinos.*
• XXII International Conference on Neutrino Physics and Astrophysics, June 13-19, 2006, Santa Fe, New Mexico: *The highest energy cosmic rays.*
• Cosmic Ray International Seminar (CRIS 2006): Ultra-High Energy Cosmic Rays: Status and Perspectives, May 29 - June 2 , 2006, Catania, Italy: *UHE neutrinos and the composition of UHECRs.*
• Scientific Inauguration of APC (Astroparticule et Cosmologie) Laboratory, 5 May 2006, Paris, France: *L'Universite de Chicago et l'astroparticule.*
• 5th International Conference on Information Processing in Sensor Networks (IPSN 2006),

April 19-21, 2006, Nashville, TN, USA - keynote speaker: *Probing The Mystery of the Highest Energy Cosmic Particles With a Large Distributed Observatory.*
• APS April Meeting 2006, April 22-25, 2006, Dallas, Texas: *When Particle Physics Confronts Cosmic Ray Data.*
• The Fourth International School on Field Theory and Gravitation, April 2006, Friburgo, Brazil: *The Mystery of Ultra-High Energy Cosmic Rays.*
• PANIC 05: Particles and Nuclei International Conference, October 24-28, 2005, Santa Fe, NM: *Astrophysics: New Cosmic Rays at the Highest Energies.*
• The Invisible Universe: Einstein's Legacy, Oct. 7, 2005, University of Michigan Astronomy distinguished speaker series, Ann Arbor, MI: *Mysteries of the Extreme Universe.*
• The 59th Yamada conference, Inflating horizon of particle astrophysics and cosmology, June 20 - 24, 2005, The University of Tokyo, Tokyo, Japan: *Deciphering the Extreme Universe with Ultra High Energy Cosmic Rays.*
• Phenomenology 2005 Symposium (PHENO 05), World Year of Phenomenology, University of Wisconsin-Madison, May 2-4, 2005, Madison, WI: *The Highest Energy Cosmic Rays.*
• IoP2005: Physics, a century after Einstein, April 10 - 14, 2005 University of Warwick, UK: *Testing Relativity with the Highest Energy Cosmic Particles.*
• The 3rd CERN - CLAF School of High-Energy Physics, 27 February 12 March 2005, Malarge, Argentina: *Ultra High Energy Cosmic Ray Theory.*
• International workshop on Magnetic Fields in the Universe: from Laboratory and Stars to Primordial Structures, November 28 - December 3, 2004, Angra dos Reis, Brazil: *Magnetic fields and ultra high energy cosmic rays.*
• International Conference on Cosmic Rays and Magnetic Fields in Large Scale Structure (3rd Korean Astrophysics Workshop), 16-20, August, 2004, Pusan National University, Busan, Korea: *Ultra High Energy Cosmic Rays.*
• 5th Rencontres du Vietnam, Particle Physics and Atrophysics, August 5 to August 11, 2004, Hanoi, Vietnam: *The New Physics of the Universe.*
• Gamma04, International Symposium on High Energy Gamma-Ray Astronomy, July 26-30, 2004, Heidelberg, Germany: *Highest energy cosmic ray.*
• 3rd International Workshop on Ultra-High Energy Cosmic Rays, 22 - 23 July 2004, University of Leeds, UK: *What we can learn from GZK Feature.*
• The Heraeus International School on *Physics with Cosmic Accelerators*, July 2004, at Bad Honnef, Germany: lectures on *The Early Universe.*
• 28th Johns Hopkins Workshop on Current Problems in Particle Theory: Hyperspace, Superspace, Theory Space and Outer Space, June 5-8, 2004 at the Johns Hopkins University, Baltimore, Maryland: *Deciphering the Extreme Universe.*
• CRIS 2004 - Cosmic Ray International Seminar - GZK and Surroundings, Catania, Italy, May 31 - June 4 2004, *UHE Cosmic Rays and Neutrinos.*
• Invited talk at Les Rencontres de Physique de la Vallee D'Aoste: Results and Perspectives in Particle Physics, February 29-March 6 , 2004, La Thuile, Aosta Valley, Italy: *The Status of Ultra-High Energy Cosmic Ray Studies.*
• Invited talk at SpacePart 03, December 2003, Washington, DC: *Review of EHECRs*

Messengers of the Extreme Universe.
• Invited talk at Cosmic Magnetic Fields, workshop of the Center for Magnetic Self-Organization in Astrophysical and Laboratory Plasmas: *Cosmological Magnetic Fields.*
• Kavli-CERCA Conference on the Future of Cosmology, Oct 10, 2003 Case Western Reserve University, Cleveland OH: *Ultra High Energy Cosmic Rays.*
• ICRC2003, The 28th International Cosmic Ray Conference, July 31- Aug 7, 2003, Tsukuba, Japan: *Rapporteur of Ultra High Energy Cosmic Rays.*
• Heinz R. Pagels Memorial Lectures, July 9, 2003, Aspen, CO: *Messengers of the Extreme Universe.*
• 2nd VERITAS Symposium on TeV Astrophysics, Adler Planetarium, April 24-26, 2003, Chicago, IL: *Lighting up the Dark Matter.*
• Annual Meeting of the American Association for the Advancement of Science, February 13-18, 2003, Denver, CO: *The Highest Energy Cosmic Rays.*
• 201st Meeting of the American Astronomical Society, January 5-9, 2003, Seattle, WA: *Puzzling Cosmic Rays at the Highest Energies.*
• XXI Texas Symposium on Relativistic Astrophysics, December 9-13, 2002, Florence, Italy: *Messengers of the Extreme Universe.*
• International Workshop on Extremely High Energy Cosmic Rays, November 5-6, 2002, Riken, Japan: *GZK measurement or Super-GZK discovery?*
• Pierre Auger Event Reconstruction Workshop, Center for Cosmological Physics, October 2-5, 2002, Chicago, IL: *Ultra High Energy Cosmic Rays: Theoretical Perspective(s).*
• Frontier Objects in Astrophysics and Particle Physics, May 20-25, 2002, Vulcano, Italy: *Theories of Ultra High Energy Cosmic Rays.*
• Topics in Astroparticle and Underground Physics, TAUP 2001, September 8-12, 2001, Gran Sasso, Italy: *The Future of Ultra High Energy Cosmic Rays.*
• The XIIImes Rencontres de Blois, Frontiers of the Universe, June 17-23, 2001, Blois, France: *Cosmic Scale Magnetic Fields.*
• International Meeting on Extremely High Energy Cosmic, ICRR / University of Tokyo, March 2001, Tokyo, Japan: *Origin of Super GZK particles.*
• XXIst Rencontres de Moriond on Very High Energy Phenomena in the Universe, January 20-17, 2001, Les Arcs, France: *UHECR from the galaxy to the beginning of the universe.*
• Particle Physics at the Millennium, 2001 Aspen Winter Conference on Particle Physics, January 7-13, 2001, Aspen, CO: *The Pierre Auger Project.*
• 7th Taipei Astrophysics Workshop on Cosmic Rays in the Universe, National Central University, October 18-20, 2000, Chung-Li, Taiwan: *The GZK feature in our neighborhood and plausible sources for UHECRs.*
• 6th International Workshop on Relativistic Aspecs of Nuclear Physics (RANP2000), Tabatinga, October 16-21, 2000, SP, Brazil: *The Origin of the Highest Energy Cosmic Rays.*
• International Workshop on Observing Ultra High Energy Cosmic Rays From Space and Earth, Metepec, August, 9-12, 2000 Puebla, Mexico: *From the Galaxy to the Edge of the Universe: Plausible Sources of UHECRs.*
• XI International Symposium on Very High Energy Cosmic Ray Interactions, *The Gleb*

Wataghin Centennial, July 17-20, 2000, Campinas, Brazil, *Theoretical Challenges in Ultra-High Energy Cosmic Ray Physics*

• The American Physical Society Meeting, April 29, 2000, Long Beach, CA: *Cosmological Magnetic Fields.*

• International Summer School on Gravitational Waves, September 1999, Urbino, Italy: *The Mystery of Ultra-High Energy Cosmic Rays.*

• German-American Young Scholars' Institute on Astroparticle Physics, September 1999, MPI Garching & Schloss Ringberg, Germany, lectures on: *Ultra High Energy Cosmic Rays.*

• 195th IAU Symposium on Highly Energetic Physical Processes, July 1999, Bozeman, MO: *Ultra High Energy Cosmic Ray Accelerators.*

• 194th Meeting of the American Astronomical Society - The Centennial Meeting, June 1999, Chicago, IL: *The Highest Energy Cosmic Rays.*

• Inner Space/Outer Space II - The David N. Schramm Memorial Symposium, May 1999, Chicago, IL: *Ultra High Energy Cosmic Rays: Theory.*

• The 3rd RESCEU (Research Center for the Early Universe) International Symposium, University of Tokyo, November 1997, Tokyo, Japan: *Cosmological Magnetic Fields.*

• 18th Texas Symposium on High Energy Astrophysics, December 1996, Chicago, IL: *Cosmological Magnetic Fields.*

• Illinois Humanistic Society Meeting on Birth and Death, December 1996, Chicago, IL: *The Birth of the Universe.*

• Baffin Island Conference on Cosmology, August 1996, Iqaluit, Canada: *Cosmological Magnetic Fields.*

• 1995 Gordon Conference on Nuclear Physics, July 1995, Tilton, NH: *Phase Transitions in the Early Universe.*

• LISHEP95, LAFEX International School on High Energy Physics, Rio de Janeiro, Brazil: *Cosmology and Particle Physics.*

• LISHEP95, Rio de Janeiro, Brazil; public lecture on: *Cosmology at the Turn of the Millennium.*

• CAM 94, September 1994, Cancun, Mexico, : *Galaxy Formation and Magnetic Fields.*

• DPF94 - Meeting of the APS Division of Particles and Fields; August 1994, Albuquerque, NM: *Cosmology at the Millennium.*

• International Symposium on Unified Symmetry in the Small and in the Large, January, 1994, Coral Gables, Fl.

• Annual meeting of the Sociedade de Astronomia Brasileira (Brazilian Astronomical Society), August 1992, Caxambu, Brazil.

• International Workshop on Relativistic Aspects of Nuclear Physics, August 1991, Rio de Janeiro, Brazil.

• International Workshop on Strange Quark Matter in Physics and Astrophysics, May 1991, Aarhus, Denmark.

• XXX Cracow School of Theoretical Physics, June 1990, Zakopane, Poland.

• International Conference on Physics and Astrophysics of Quark-Gluon Plasma, Tata Institute, February 1988, Bombay, India.

• Quark Matter '87, August 1987, Schloss Nordkirchen, West Germany.

• Ettore Majorana International School of Particle Astrophysics, May 1986, Erice, Italy.

Conference and Workshop Organizer:

• *Next-Generation Techniques for Ultra-High Energy (UHE) Astroparticle Physics*, KICP workshop, February 29 - March 2, 2016, Chicago, IL
• UHECR-14, October 12-15, 2014, Springdale, Utah.
• COSMO-14, August 25-29, 2014, Chicago, IL.
• KICP Workshop on *High-Energy Messengers: Connecting the Non-thermal Extragalactic Backgrounds* June 9-11, 2014, Chicago, IL.
• 33th International Cosmic Ray Conference, July 2-9, 2013, Rio de Janeiro, Brazil.
• KICP Workshop: Imaging the Extreme Universe, May 9-10, 2013, Chicago.
• APS April meeting 2013, DAP sessions, April 13-16, Denver, CO.
• 26th Texas Symposium on Relativistic Astrophysics, December 15-20, 2012, São Paulo, Brazil.
• KICP Workshop on *The 4th Neutrino*,May 18-19, 2012, Chicago, IL.
• 9th International Conference *Identification of Dark Matter*, July 23-27, 2012, Chicago, IL
• APS April meeting 2012, March 31 to April 3 2012; Atlanta, Georgia
• US JEM-EUSO Working Group Meeting, February 22 - 24, 2012, KICP, Chicago, IL
• 12th International Conference on Topics in Astroparticle and Underground Physics (TAUP 2011), September 5-9, 2011, Munich, Germany.
• SUSY 2011, KICP day, August 30, 2011, Chicago, IL, USA.
• PANIC 2011, July 24-29, 2011, MIT, Cambridge, MA, USA.
• Experiments on the Cosmic Frontier: Astrophysical Studies of Matter, Energy, Space and Time, March 23-26, 2011, Fermilab, Batavia, IL, USA.
• TeV Particle Astrophysics 2009, July 2009, Stanford, USA.
• International Astroparticle Physics Symposyum, May 2008, Golden, CO.
• TeV Particle Astrophysics 2007, August 27-31, Venice, Italy.
• Workshop on Future prospects of Ultra-High Energy Cosmic Rays, May 22-23, 2007, APC, Paris.
• The Hunt for Dark Matter, A Symposium on Collider, Direct, and Indirect Searches, May 10-12, 2007, Fermilab, IL.
• The Pierre Auger Observatory - Analysis Meeting, September 11 - 14, 2006, The University of Chicago, Chicago, IL.
• The Cronin Fest, on the occasion of James W. Cronin's 75th Birthday, September 8 -9, 2006, The University of Chicago, Chicago, IL.
• Auger North Design Workshop, August 14 - September 7, 2006, KICP, The University of Chicago, Chicago, IL.
• New Views of the Universe, Inaugural Symposium of the KICP in honor of David Schramm, December 8 - 13, 2005.
• Ninth International Conference on Topics in Astroparticle and Underground Physics, TAUP 2005, Zaragoza, September 10-14, 2005

• Ultrahigh Energy Cosmic Rays, Aspen center for Physics, August 22 - September 11, 2005
• TeV Particle Astrophysics, Fermilab, Batavia, IL, July 13-15, 2005.
• Tenth Marcel Grossmann Meeting on General Relativity Rio de Janeiro, July 20-26, 2003 - paralel session on Matter, Dark Matter, and CP violation
• IAU session on Unconventional Observing Windows for Astrophysics, XXV General Assembly, Sidney, Australia, July, 2003.
• 21th Texas Symposium on High Energy Astrophysics, Florence, Italy, December 2002.
• Pierre Auger Event Reconstruction Workshop, Center for Cosmological Physics, Chicago, IL, October 2-5, 2002.
• Aspen Winter Conference on *Ultra High Energy Particles from Space,* January 27 - February 2, 2002.
• International Workshop on Observing Ultra High Energy Cosmic Rays From Space and Earth, Metepec, Puebla, Mexico, August 2000.
• Centennial Meeting of the AAS, Chicago, 1999.
• Inner Space/Outer Space II, D.N. Schramm Symposium Fermilab, 1999.
• Pritzker Symposium & Workshop on the Status of Inflationary Cosmology, Chicago, Jan. 1999.
• 18th Texas Symposium on High Energy Astrophysics - Chicago, Dec. 1996.
• Galactic and Cosmological Magnetic Fields, Aspen Workshop, Aug. 1996.
• Nuclei in the Cosmos - Notre Dame, June 1996.
• CAM 94 - International Physics Meeting, Cancun, Mexico 1994.
• Snowmass 1994 - *Particle and Nuclear Astrophysics and Cosmology in the Next Millennium,* at Snowmass, Colorado, June 29 - July 14, 1994.
• QCD in Astrophysics - Fermilab, April 1988.

Teaching

2016 Spring: Astro 31100 - High Energy Astrophysics
2016 Spring (Paris Campus): PhysSci/Astro 12620 - The Big Bang
2015 Spring (Paris Campus): PhysSci/Astro 128 - European Astronomy and Astrophysics
2014 Spring (Paris Campus): PhysSci/Astro 128 - European Astronomy and Astrophysics
2013 Spring (Paris Campus): PhysSci/Astro 119 - Stellar Astronomy and Astrophysics
2012 Spring: Astro182 - the Origin and Evolution of the Universe
2011 Fall: Astro 432 - High Energy Cosmic Particles (new graduate course)
2011 Spring (Paris Campus): PhysSci/Astro 120 - The Origin of the Universe and How We Know
2010 Fall: Astro182 - the Origin and Evolution of the Universe
2010 Spring (Paris Campus): PhysSci/Astro 120 - The Origin of the Universe and How We Know
2009 Fall: Astro 128 - European Astronomy and Astrophysics
2009 Spring (Paris Campus): PhysSci/Astro 128 - European Astronomy and Astrophysics
2008 Fall: Astro182 - the Origin and Evolution of the Universe

2008 Spring (Paris Campus): PhysSci/Astro 128 - European Astronomy and Astrophysics (new course)
2008 Winter: Astro 182 - the Origin and Evolution of the Universe
2006 Fall: Astro 429 - Particle Astrophysics
2005 Fall: Astro 309 - Research Project Seminar
2005 Spring: Astro 307 - Project Preparation Seminar
2003 Fall: Astro 309 - Research Project Seminar
2003 Winter: Astro182 - the Origin and Evolution of the Universe
2002 Fall: Astro 309 - Research Project Seminar
2002 Spring: Astro 307 - Project Preparation Seminar
2001 Winter: Astro 242 - The Physics of Galaxies & the Universe
2001 Fall: Astro 429 - Particle Astrophysics (new course)
2000 Spring: Astro 182 - Origin and Evolution of the Universe
2000 Spring: Astro 280 - The Physics of the Early Universe (new course)
2000 Winter: Astro 242 -The Physics of Galaxies & the Universe (new course)
1999 Spring: Astro 305 - Radiative Processes in Astrophysics
1999 Winter: Astro 182 - the Origin and Evolution of the Universe
1998 Spring: Astro 305 - Radiative Processes in Astrophysics
1998 Winter: Astro 182 - the Origin and Evolution of the Universe (new course)
1997 Spring: Astro 305 - Radiative Processes in Astrophysics (new course)

Post-Doctoral Supervision:

Dr. Tim Linden - faculty mentor to Einstein Fellow at the Kavli Institute for Cosmological Physics at the University of Chicago, 2013-present
Dr. Kumiko Kotera - postdoc at the University of Chicago from 2009 - 2011; present: faculty at the Institut d'Astrophysique, Paris, France.
Dr. Benjamin Rouillé d'Orfeuil - 2007- 2009, postdoc at APC Lab (Astroparticule et Cosmologie), L'Universite de Paris 7, Paris, France; postdoc at Universite d'Orsay, France.
Dr. Nicolas Busca - 2007-2009 postdoc at APC Lab (Astroparticule et Cosmologie), L'Universite de Paris 7, Paris, France; CNRS researcher at the Laboratoire d'Astroparticule et Cosmologie, Paris 7, France.
Dr. Vasiliki Pavlidou - KICP fellow 2005 - 2008; present: faculty at University of Crete.
Dr. Denis Allard - postdoc 2004 - 2006; present: CNRS researcher at the APC Lab, CR2, L'Universite de Paris 7, Paris, France.
Dr. Lorenzo Cazon Boado - postdoc 2005 - 2009; present: researcher at the Laboratorio de Instrumentação e Física Experimental de Partículas (LIP), Lisboa, Portugal.
Dr. Maximo Ave - Enrico Fermi Fellow and postdoc 2002 - 2009; researcher at Universidad de Santiago de Compostela, Spain.
Dr. Tokonatsu Yamamoto - KICP fellow and postdoc 2002 - 2007; present: faculty at Konan University, Konan, Japan.
Dr. Marco Cavaglia - postdoc visitor 2002; present: faculty at University of Mississippi.
Dr. Pasquale Blasi - postdoc from 1997 to 1999; present: faculty at Arcetri Osservatorio, Firenze, Italy.

Dr. Ivone Albuquerque - postdoc from 1997 to 1999; present: faculty at Universidade de São Paulo, Brazil.
Dr. Guenter Sigl - postdoc from 1997 to 1999; present: faculty at Universitat Hamburg at DESY, Germany.
Dr. Karsten Jedamzik - postdoc visitor 1996; present: faculty at Universite de Montpelier, France.
Dr. Martin Lemoine - postdoc 1996 to 1997; present: faculty at Institut d'Astrophysique, Paris, France.

Graduate Student Supervision:

Thesis Advisor to:

Dr. Ke Fang - graduated August 2015; present: JSI fellow, University of Maryland and Goddard Space Flight Center.
Dr. Tonia Venters - graduated Summer 2009; present: civil servant at Goddard Space Flight Center.
Dr. Fabian Schmidt - graduated Summer 2009; present: scientific staff member at Max-Planck-Institut fur Astrophysik, Garching, Germany.
Dr. Jennifer Siegal-Gaskins - graduated Summer 2008; Einstein Fellow at Caltech; Marie Curie fellow at University of Amsterdam, Netherlands.
Dr. Nicolas Busca - graduated Fall 2006; present: CNRS researcher, Laboratoire de Astroparticule et Cosmologie, Paris 7, France.
Dr. Eun-Joo Ahn - graduated Summer 2006; present: postdoctoral fellow at Fermi National Accelerator Laboratory.
Dr. Argyro Tasitsiomi - graduated Fall 2005 - Spitzer Fellow at Princeton University 2005-2008, since 2010 Vice President at Goldman Sachs, NY.
Dr. Craig Tyler - graduated Spring 2002; present: Los Alamos National Laboratory, Los Alamos, NM, USA.
Dr. Lucia Munoz-Franco - graduated Fall 2000 - at McKinzie & Co in 2001; present: editor at Elsevier, Netherlands.
Dr. Aparna Venkatesan - graduated Winter 2000; present: faculty at the University of San Francisco.
Dr. Visnja Katalinic - graduated Summer 1999 - McKinzie & Co in 2000; Sanofi Aventis in 2008.

Co-supervised research of Graduate Students:

Dr. Florin Ionita - graduated 2011 - postdoc in the Netherlands.
Dr. Mark Abney - graduated 1996 - faculty at the University of Chicago.
Dr. Eunjin Kim - graduated 1996 - Senior Lecturer at the University of Sheffield, England.
Dr. Baolian Cheng - graduated 1994 - staff at LANL
Dr. Lloyd Knox - graduated 1994 - faculty at University of California, Davis.

Undergraduate Supervision:

Mr. Mikhail Rezazadeh - to graduate 2017

Mr. Leo Allen - to graduate 2017
Ms. Amanda Pagul - graduated 2015, researcher at University of California, Riverside
Ms. Jessica Avva - graduated 2015, graduate school at University of California, Berkeley
Mr. Joshua Banks - graduated 2008, graduate school at Vanderbilt University
Ms. Carolyn Brown - graduated 2007, graduate school at University of California, Berkeley
Ms. Tien-Tien Yu - graduated 2007 - graduate school at University of Wisconsin-Madison Department of Physics
Ms. Ami Choi - graduated Summer 2003 - graduate school at University of California, Davis.
Mr. Sean O'Neil - graduated Summer 2000 - graduate school at University of Minnesota, Minneapolis.

Recent Research Grants:

NASA (NNX13AH54G) *U.S. Participation in JEM-EUSO*, $ 4,393,078; from 2/25/13 to 2/24/18, **P.I**.

NSF (PHY-1068696) *The Highest Energy Astroparticle Physics*, $ 1,020,000, 08/15/11-07/31/14; **P.I**.

NSF *Physics Frontier Center at the Kavli Institute for Cosmological Physics: Pushing Cosmology to the Edge*, $16,900,000 09/01/11- 08/31/16, Michael Turner, PI, **Co-I**.

NSF (PHY- 0758017) *The Highest Energy Cosmic Rays*, $990,000, 05/01/08- 04/30/11; **P.I**.

NSF (DRL-0803150) *Aiming High: Probing the Mystery of Ultra-High Energy Cosmic Rays* $74,947, 08/15/08 - 07/31/09 **P.I**.

ANR: Chaires d'Excellence Award, Agence Nationale de la Recherche, France. *AstroParticules a Ultra-Haute Energie*, 400,000 euros, 12/01/06- 11/30/09; **P.I**.

NSF (PHY-0457069) *The Highest Energy Cosmic Rays*, $875,000, 05/01/05- 04/30/08; **P.I**.

DOE (DE-FG02-91ER40606) *Nuclear Physics and Astrophysics*, $1,229,000. - 03/15/91-10/14/06; **P.I**.

NSF (AST-0071235) *The Origin of the Highest Energy Particles*, $304,899, 07/15/00-06/30/05; **P.I**.

Scientific Publications:

1. *Strange Stars,* C. Alcock, E. Farhi, & A. V. Olinto, Astrophysical Journal 310, 261 (1986)

2. *Model for the 5 March 1979 Gamma–Ray Transient,* C. Alcock, E. Farhi, & A. V. Olinto, Phys. Rev. Letters 57, 2088 (1986)

3. *Strange Matter in the Universe*, A. V. Olinto, in Gauge Theory and the Early Universe, edited by P. Galeotti and D. Schramm, NATO Advance Study Institute, Erice, Sicily, (1986)

4. *On the Conversion of Neutron Stars to Strange Stars,* A. V. Olinto, Phys. Letters B 192, 71 (1987)

5. *Observation of Exotic Phases of QCD*, A. V. Olinto, in the Proceedings of the International Conference on the Physics and Astrophysics of Quark-Gluon Plasma, Bombay, India (1988)

6. *Composite Leptoquarks in Hadronic Colliders,* O. Eboli & A. V. Olinto, Phys Rev D 38, 3461 (1988)

7. *Quark Matter in Astrophysics and Cosmology,* A. V. Olinto, Z Physik C 38, 303 (1988)

8. *Exotic Phases of Hadronic Matter and Their Application,* C. Alcock & A. V. Olinto, Ann. Rev. Nuc. Part. Phys. 38, 161 (1988)

9. *Evaporation of Strange Matter (and Similar Condensed Phases) at High Temperature*, C. Alcock & A. V. Olinto, Phys. Rev. D 39, 1233 (1989)

10. *Is the Sub-millisecond Pulsar Strange?*, J. Frieman & A. V. Olinto, Nature 341, 633 (1989)

11. *Cosmic Evolution of Non-topological Solitons*, J. Frieman, A. V. Olinto, M. Gleiser, & C. Alcock, Phys. Rev. D 40, 3241 (1989)

12. *Neutron Stars, Strange Stars, and SN1987A*, A. V. Olinto, in the Proceedings of the XXX Cracow School of Theoretical Physics, Zakopane, Poland, (1990)

13. *Natural Inflation with Pseudo-Nambu-Goldstone Bosons*, K. Freese, J. Frieman, & A. V. Olinto, Phys. Rev. Letters 65, 3233 (1990)

14. *Converting Neutron Stars to Strange Stars*, A. V. Olinto, Nuclear Phys. B (Proc. Supp.) 24B, 103 (1991)

15. *The Physics of Strange Matter*, A. V. Olinto, in the Proceedings of the International Workshop on Relativistic Aspects of Nuclear Physics, Rio de Janeiro, Brazil (1991)

16. *Natural Inflation: Models, Constraints, and Large Scale Structure*, F. Adams, J. R. Bond, K. Freese, J. Frieman, & A. V. Olinto, Phys. Rev. D 47, 426 (1993)

17. *Initial Conditions for Natural Inflation*, L. Knox & A. V. Olinto, Phys. Rev. D 48, 946 (1993)

18. *Dibaryons in Neutron Stars*, P. Haensel, J. Frieman, & A. V. Olinto, Fermilab preprint Pub-91/176-A (1991)

19. *On Constraining Electroweak-Baryogenesis with Primordial Nucleosynthesis*, G. Fuller, K. Jedamzik, G. Mathews, & A. V. Olinto, Phys. Lett. B 333, 135 (1994)

20. *Primordial Magnetic Fields Generated at the Quark-Hadron Phase Transition*, B. Cheng & A. V. Olinto, Phys. Rev. D 50, 2421 (1994)

21. *Cosmology at the Millennium*, A. V. Olinto, in the Proceedings of the 1994 APS Division of Particles & Fields Meeting, Ed. S. Seidel, World Scientific (1995)

22. *Extragalactic Magnetic Field and the Highest Energy Cosmic Rays*, S. Lee, A. V. Olinto, & G. Sigl, Ap. J. Lett. 455, L1 (1995)

23. *Generation of Density Perturbations by Primordial Magnetic Fields*, E. Kim, A. V. Olinto, R. Rosner, Ap. J. 468, 28 (1996)

24. *Observational Constraints on the Internal Structure and Dynamics of the Vela Pulsar*, M. Abney, R. Epstein, & A. V. Olinto, Ap. J. Lett., 466, L91 (1996)

25. *Constraints on Primordial Magnetic Fields from Big Bang Nucleosynthesis*, B. Cheng, A. V. Olinto, J. Truran, & D. Schramm, Phys. Rev. D, 54 (1996)

26. *Cosmological Magnetic Fields*, A. V. Olinto, in the Proceedings of the XVIII Texas Symposium on Relativistic Astrophysics, Chicago, 1996; Ed. A. V. Olinto, J. Frieman, and D. N. Schramm, World Scientific (1998)

27. *Constraints on the Production of Ultra-High-Energy Cosmic Rays by Neutron Stars*, A. Venkatesan, M. C. Miller, & A. V. Olinto, Ap.J. 484, 323 (1997)

28. *Primordial Magnetic Fields from Cosmological First Order Phase Transitions*, G. Sigl, A. V. Olinto, & K. Jedamzik, Physical Review D 55, 4582 (1997)

29. *Ultra-High Energy Cosmic Ray Sources and Large Scale Magnetic Fields*, M. Lemoine, G. Sigl, A. V. Olinto, & D. Schramm, Ap J Lett 486, L115 (1997)

30. *Maximum Likelihood Analysis of Clusters of Ultra-High Energy Cosmic Rays*, G. Sigl, M. Lemoine, & A. V. Olinto, Phys. Rev. 56, 4470 (1997)

31. *Cosmological Magnetic Fields*, A. V. Olinto, in the Proceedings of the 2nd RESCEU Symposium, University of Tokyo, 1997, Ed. M. Minowa, Universal Academic Press (1998)

32. *Damping of Cosmic Magnetic Fields*, K. Jedamzik, V. Katalinic, & A. V. Olinto, Phys. Rev. D 57, 3264 (1998)

33. *Neutron Stars and Black Holes as MACHOs*, A. Venkatesan, A. V. Olinto, & J. Truran, Ap. J. 516, vol. 2 (1999)

34. *A Magnetized Local Supercluster and the Origin of the Highest Energy Cosmic Rays*, P. Blasi & A. V. Olinto, Phys. Rev. D, 59 023001 (1999)

35. *New Limits on Cosmological Magnetic Fields*, P. Blasi, S. Burles, & A. V. Olinto, in the Proceedings of the XIX Texas Symposium on Relativistic Astrophysics, Paris, 1998;

Ed. J. Paul, T. Montmerle, and E. Aubourg, Nuclear Physics B (Proc. Supp.), Elsevier Science (1999)

36. *Cosmological Magnetic Field Limits in an Inhomogeneous Universe*, P. Blasi, S. Burles, & A. V. Olinto, Ap. J. Letters, 514, L79 (1999)

37. *Rapid dissipation of magnetic fields due to Hall current*, S.I. Vainshtein, S. M. Chitre, & A. V. Olinto, Phys. Rev. E, 61, 4422 (2000)

38. *Galactic Ultra-High-Energy Cosmic Rays*, A. V. Olinto, R.I. Epstein, and P. Blasi, in the proceedings of the 26th International Cosmic Rays Conference, Salt Lake City (1999)

39. *Ultra-High Energy Cosmic Ray Accelerators*, A. V. Olinto, in the Proceedings of the IAU Symposium on *Highly Energetic Physical Processes and Mechanisms for Emissions from Astrophysical Plasmas,* Ed. P.C.H. Martens & S. Tsuruta, ASP (1999)

40. *Stochastic Acceleration and Non-Thermal Emission in Clusters of Galaxies*, P. Blasi & A. V. Olinto, in the Proceedings of the IAU Symposium on *Highly Energetic Physical Processes and Mechanisms for Emissions from Astrophysical Plasmas,* Ed. P.C.H. Martens & S. Tsuruta, ASP (1999)

41. *Ultra-High Energy Cosmic Rays: the theoretical challenge*, A.V. Olinto, Phys. Rept. 333-334 (2000) 329-348

42. *The Mystery of the Ultra-High Energy Cosmic Rays*, A. V. Olinto, in the proceedings of International Summer School on *Experimental Physics of Gravitational Waves*, Ed. F. Vetrano, Urbino (1999)

43. *Ultra-High Energy Cosmic Rays from Young Neutron Star Winds*, P. Blasi, R.I. Epstein, and A. V. Olinto, Ap. J. Letters, 533, L123 (2000)

44. *A Limit on Primordial Small-Scale Magnetic Fields from CMB Distortions*, K. Jedamzik, V. Katalinic, and A. V. Olinto, Phys. Rev. Lett. 85, 700 (2000)

45. *The Effect of a Non-Thermal Tail on the Sunyaev-Zeldovich Effect in Clusters of Galaxies*, P. Blasi, A. V. Olinto, and A. Stebbins, ApJ. Letters, 535, L71 (2000)

46. *Cosmic Neutrinos and New Physics beyond the Electroweak Scale*, C. Tyler, A. V. Olinto, and G. Sigl, Phys. Rev. D 63, 55001 (2001)

47. *The Greisen Zatzepin Kuzmin Feature in our Neighborhood of the Universe*, M. Blanton, P. Blasi, A. V. Olinto, Astroparticle Phys. 15, 275-286 (2001)

48. *From the Galaxy to the Edge of the Universe: Plausible Sources of UHECRs*, A. V. Olinto, proceedings of the International Workshop on Observing Ultra High Energy Cosmic Rays From Space and Earth, Metepec, Puebla, Mexico (2000). AIP Conference Proceedings, Vol. 566. Edited by Humberto Salazar, Luis Villaseor and Arnulfo Zepeda. American Institute of Physics, 2001, p.99-112

49. *Theoretical Challenges in Ultra-High Energy Cosmic Ray Physics*, A. V. Olinto, in the proceedings of the XI International Symposium on Very High Energy Cosmic Ray Interactions, Campinas, Brazil (2000).

50. *The Origin of the Highest Energy Cosmic Rays*, A. V. Olinto, in the Proceedings of the 6th International Workshop on Relativistic Aspecs of Nuclear Physics (RANP2000), Tabatinga, SP, Brazil, (2001).

51. *The Greisen Zatzepin Kuzmin feature in our neighborhood and plausible sources for UHECRs*, A. V. Olinto, in the Proceedings of the 7th Taipei Astrophysics Workshop on Cosmic Rays in the Universe, National Central University, Chung-Li, Taiwan, (2001).

52. *WIMPS Are Stronger When They Stick Together*, Angela V. Olinto, Pasquale Blasi, Craig Tyler, in the Proc. of the 27th International Cosmic Ray Conference, Hamburg, Germany, August 2001, astro-ph/0108060

53. *Galactic Magnetic Field Structure and Ultra High Energy Cosmic Ray Propagation*, Sean O'Neill, Angela V. Olinto, Pasquale Blasi, in the Proceedings of the 27th International Cosmic Ray Conference, Hamburg, Germany, August 2001 (astro-ph/0108401).

54. *The Origin of the Super-GZK Particles*, A. V. Olinto, in the Proceedings of the International Workshop on Extremely High Energy Cosmic Rays, Institute for Cosmic Ray Research and University of Tokyo, March 22-23, 2001, Kashiwa, Japan.

55. *The Future of Ultra High Energy Cosmic Rays*, A. V. Olinto, in the Proceedings of the TAUP 2001, Gran Sasso, Italy, September 2001, Nucl. Phys. Proc. Suppl. 110 (2002) 434-442

56. *Detecting WIMPs in the Microwave Sky*, P. Blasi, A. V. Olinto, and C. Tyler, Astroparticle Physics 18, (2003) 649-662, astro-ph/0202049

57. *Brane factories*, E.-J. Ahn, M. Cavaglia, A. V. Olinto, Phys. Lett. B 551, 1 (2003)

58. *The Detectability of Neutralino Clumps via Atmospheric Cherenkov Telescopes*, A. Tasitsiomi, and A. V. Olinto, Physical Review D 66, 083006 (2002), astro-ph/0206040

59. *Gamma-Ray Constraints on Neutralino Dark Matter Clumps in the Galactic Halo*, R. Aloisio, P. Blasi, A. V. Olinto, Astrophys.J. 601 (2004) 47-53, astro-ph/0206036

60. *On the statistical significance of the GZK feature in the spectrum of ultra high energy cosmic rays*, D. De Marco, P. Blasi, A. V. Olinto, Astropart.Phys. 20 (2003) 53-65, astro-ph/0301497

61. *Low Statistics of EHECRs*, A. V. Olinto, D. De Marco, P. Blasi, in the Proceedings of the International Workshop on Extremely High Energy Cosmic Rays, RIKEN, Japan astro-ph/0303177

62. *Messengers of the Extreme Universe*, A. V. Olinto in the Proceedings of the XXI Texas Symposium on Relativistic Astrophysics, Texas in Tuscany. Florence, Italy, Eds.: R. Bandiera, R. Maiolino, F. Mannucci. Singapore: World Scientific Publishing, ISBN 981-238-580-0, 2003, p. 353 - 362, astro-ph/0305177

63. *The GZK Feature in the Spectrum of UHECRs: What is it Telling Us?*, D. De Marco, P. Blasi, A. V. Olinto, in the Proceedings of the 28th International Cosmic Ray Conference, Tsukuba, Japan. Eds: Kajita, Asaoka, Kawachi, Matsubara and Sasaki, p.655, astro-ph/0305336

64. *TeV black hole fragmentation and detectability in extensive air-showers*, E.-J. Ahn, M. Ave, M. Cavaglia, A. V. Olinto, Phys. Rev. D68 (2003) 043004, hep-ph/0306008

65. *Probing TeV gravity with extensive air-showers*, M. Ave, E.-J. Ahn, M. Cavaglia, A. V. Olinto, in the Proceedings of the 28th International Cosmic Ray Conference, Tsukuba, Japan, (2003), astro-ph/0306344

66. *Neutralino annihilation gamma-rays from clumps and the LMC*, A. Tasitsiomi, J. Gaskins, A. V. Olinto, Proceedings of 2nd VERITAS symposium, New Astron.Rev. 48 (2004) 473-475, astro-ph/030656

67. *Gamma-ray and synchrotron emission from neutralino annihilation in the Large Magellanic Cloud*, A. Tasitsiomi, J. Gaskins, A. V. Olinto, Astropart. Phys. 21 (2004) 637-650, astro-ph/0307375

68. *Uncertainties in limits on TeV-gravity from neutrino-induced air showers*, E.-J. Ahn, M. Cavaglia, A. V. Olinto, Astropart. Phys. 22, issue 5-6, page 377-385 (2005), hep-ph/0312249

69. *Neutralino Annihilation at the Galactic Center Revisited*, R. Aloisio, P. Blasi, A. V. Olinto, JCAP 0405 (2004) 007, astro-ph/0402588

70. *Rapporteur talk for Ultra High Energy Cosmic Rays (HE 1.3, 1.4, 1.5): Messengers of the Extreme Universe*, A. V. Olinto, in Frontiers of Cosmic Ray Science, Vol. 8, p. 299, of the Proceedings of the 28th International Cosmic Ray Conference, Tsukuba, Japan, Eds: T. Kajita, Y. Asaoka, A. Kawachi, Y. Matsubara, and M. Sasaki, Universal Academy Press (2004), astro-ph/0404114

71. *Cosmogenic Neutrinos from Ultra-High Energy Nuclei*, M. Ave, N. Busca, A. V. Olinto, A. A. Watson, T. Yamamoto, Astropart. Phys. 23 (2005) 19-29, astro-ph/0409316

72. *The Status of Ultra-High Energy Cosmic Ray Studies* A. V. Olinto, in the Proceedings of Les Rencontres de Physique de la Vallee D'Aoste: Results and Perspectives in Particle Physics (2004).

73. *Ultra-High Energy Cosmic Rays and Cosmogenic Neutrinos*, M. Ave, N. Busca, A. V. Olinto, A. A. Watson, T. Yamamoto, in the Proceedings of CRIS 04, Cosmic Ray International Seminar - GZK and Surroundings.

74. *The Highest Energy Cosmic Rays*, A. V. Olinto, High Energy Gamma-Ray Astronomy: 2nd International Symposium, Proceedings of the conference held 26-30 July 2004 in Heidelberg (Germany). Edited by Felix A. Aharonian, Heinz J. Vlk, and Dieter Horns. AIP Conference Proceedings, Volume 745. New York: American Institute of Physics, 2005., p.48-59

75. *New Views of the Universe*, A. V. Olinto, in the Proceedings of 5th Rencontres du Vietnam (2005).

76. *Ultra High Energy Cosmic Rays and the Magnetized Universe*, A. V. Olinto, in the Journal of the Korean Astronomical Society, vol. 37, no. 5, pp. 413-420 (2005)

77. *Magnetic Fields and Ultra High Energy Cosmic Rays*, A. V. Olinto, in the Proceedings of the International workshop on Magnetic Fields in the Universe: from Laboratory and Stars to Primordial Structures, AIP Conference Proceedings, Volume 784, pp. 396-406 (2004).

78. *Deciphering the Extreme Universe*, A. V. Olinto, in the proceedings of the 28th Johns Hopkins Workshop on Current Problems in Particle Theory: Hyperspace, Superspace, Theory Space and Outer Space, (2005)

79. *UHE nuclei propagation and the interpretation of the ankle in the cosmic-ray spectrum*, D. Allard, E. Parizot, E. Khan, S. Goriely, A. V. Olinto, Astronomy and Astrophysics, Vol. 443-3 (2005) L29-L32, astro-ph/0505566

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81. *First Estimate of the Primary Cosmic Ray Energy Spectrum above 3 EeV from the Pierre Auger Observatory*, the Pierre Auger Collaboration, ICRC-05-124, the 29th ICRC Proceedings (2005), astro-ph/0507150

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83. *Upper limit on the primary photon fraction from the Pierre Auger Observatory*, the Pierre Auger Collaboration, the 29th ICRC Proceedings (2005), astro-ph/0507402

84. *Coverage and large scale anisotropies estimation methods for the Pierre Auger Observatory*, the Pierre Auger Collaboration, ICRC-05-111, the 29th ICRC Proceedings (2005), astro-ph/0507517

85. *Search for localized excess fluxes in Auger sky maps and prescription results*, the Pierre Auger Collaboration, ICRC-05-120, the 29th ICRC Proceedings (2005), astro-ph/0507600

86. *A description of some ultra high energy cosmic rays observed with the Pierre Auger Observatory*, the Pierre Auger Collaboration, ICRC-05-104, the 29th ICRC Proceedings (2005).

87. *Detection of very inclined showers with the Auger Observatory*, the Pierre Auger Collaboration, ICRC-05-115, the 29th ICRC Proceedings (2005).

88. *Extragalactic cosmic-ray source composition and the interpretation of the ankle*, D. Allard, E. Parizot, A. V. Olinto, E. Khan, S. Goriely, the 29th ICRC Proceedings, 2005, astro-ph/0508465

89. *Deciphering the Extreme Universe with UHE Cosmic Ray*, A. V. Olinto, Inflating Horizon of Particle Astrophysics and Cosmology, Universal Academy Press, Inc. and Yamada Science Foundation (2005).

90. *A closer look at the spectrum and small scale anisotropies of UHECRs*, D. De Marco, P. Blasi, A. V. Olinto, Journal of Cosmology and Astroparticle Physics, JCAP 0601 (2006) pp. 002, astro-ph/0507324

91. *On the transition from Galactic to extragalactic cosmic-rays: spectral and composition features from two opposite scenarios* D. Allard, E. Parizot, and A.V. Olinto, Astropart. Phys., Volume 27, Issue 1, 61-75, astro-ph/0512345

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93. *Small Scale Anisotropy Predictions for the Auger Observatory*, D. De Marco, P. Blasi, A. V. Olinto, Journal of Cosmology and Astroparticle Physics, JCAP 0607 (2006) 015, astro-ph/0603615

94. *Population Studies of the Unidentified EGRET Sources*, J. Siegal-Gaskins, V. Pavlidou, A. V. Olinto, C. Brown, B. D. Fields, proceedings of *The Multi-Messenger Approach to High Energy Gamma-Ray Sources*, Barcelona; Ap&SS 309 (2007) 43, astro-ph/0611273

95. *Unidentified EGRET Sources and the Extragalactic Gamma-Ray Background*, V. Pavlidou, J. Siegal-Gaskins, B. D. Fields, A. V. Olinto, proceedings of *The Multi-Messenger Approach to High Energy Gamma-Ray Sources*, Barcelona; Ap&SS 309 (2007) 81, astro-ph/0611271

96. *The Mystery of Ultra-High Energy Cosmic Rays*, A. V. Olinto, AIP Conf.Proc.842:937-944, 2006. Also in *Santa Fe 2005, Particles and nuclei* 937-944 (2006).

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