

# Luis C. Reyes

Kavli Institute for Cosmological Physics (KICP)  
LASR Building Room 225  
University of Chicago  
Chicago, IL 60605

Birthdate: October 19th, 1979  
Citizenship: Colombia  
Phone: (773)834-9958  
lreyes@kicp.uchicago.edu

## Curriculum Vitae

### Education

<b>Ph.D. Physics</b>	May 2007
University of Maryland, College Park	
<b>BS. Physics</b>	2001
Universidad de los Andes, Colombia	

### Research Experience

#### Postdoctoral Scholar

Faculty Contact: Simon Swordy Jul 2007 - Present  
Kavli Institute for Cosmological Physics (KICP) at the University of Chicago  
*Study of Extragalactic Gamma-ray Sources with Fermi LAT and VERITAS*

#### Research Assistant

Advisor: Steve Ritz Jan 2003– Jun 2007  
NASA - Goddard Space Flight Center  
*The Gamma-ray Large Area Space Telescope (GLAST) and attenuation of gamma-ray blazars by Extragalactic Background Light (EBL)*

#### Undergrad Thesis

Advisor: Juan C. Sanabria 2001  
Universidad de los Andes, Bogota - Colombia  
*Extensions to the Standard Model with massive neutrinos and the Solar Neutrino Problem*

#### Summer Internship

Advisors: Liu Lin and Ruy H. Farias 2001  
Laboratório Nacional de Luz Síncrotron (LNLS), Campinas - Brazil  
*Multi-turn injection in the Synchrotron Booster at LNLS*

### Awards and Honors

#### KICP Fellowship

Kavli Institute for Cosmological Physics 2007  
(KICP) - University of Chicago

**Excellence Award for Teaching Assistants**

Physics Dept - University of Maryland

2002

**Graduation with Honors**

Universidad de los Andes, Colombia

2001

**Teaching Experience**

Teaching Assistant

2001-2002

Physics Department - University of Maryland, College Park

Teaching Assistant

2000-2001

Physics Department - Universidad de los Andes, Colombia

**Presentations***Early Observations of Gamma-ray Blazars with Fermi LAT.*

Workshop on Particle Astrophysics, Astronomy and Cosmology, Snowbird, UT, Feb 2009

*Studies of the Extragalactic Background Light (EBL) with the Fermi Gamma-ray Telescope.*

The Impact of High-Energy-Astrophysics Experiments on Cosmological Physics, Chicago, IL, Oct 2008

*Recent Results on Gamma-ray Blazars from VERITAS*

Mini-symposium in Honor of Kip Thorne and Mark Davis, Chicago, IL Jun 2008

*AGN Science with GLAST*

International Astroparticle Physics Symposium, Golden, Co, May 2008

*VERITAS Observations Of Tev Blazar Mrk 421 With Simultaneous Coverage in the X-ray Band*

HEAD Meeting, Los Angeles, CA, May 2008

*EBL attenuation of Data Challenge II (DC2) sources.*

GLAST DC2 Closeout Meeting, NASA-GSFC, Greenbelt, MD, Jun 2006

*AGN Science with GLAST.*

APS April Meeting, Dallas, TX, April 2006.

*EBL studies as an example of spectral analysis with likelihood.*

GLAST DC2 Kickoff Meeting, SLAC, March 2006

*GLAST Anti-coincidence Detector (ACD) studies with surface muons.*

GLAST Integration &amp; Test Workshop VI, SLAC, February 2006

*Study of high rate runs during LAT integration.*  
GLAST Integration & Test Workshop IV, SLAC, July 2005

*Study of the Tracker Trigger.*  
GLAST Integration & Test Workshop III, SLAC, March 2005

*The Solar Neutrino Problem.*  
High Energy Physics Seminar, Universidad de los Andes, Colombia, October 2000

## Conference Posters

*Early Observations of Gamma-ray Blazars with Fermi LAT.*  
AAS Meeting, Long Beach, CA, Jan 2009

*VERITAS Observations of Mrk 421 during 2008 with Simultaneous X-ray Coverage.*  
4th International Meeting on High Energy Gamma-Ray Astronomy, Heidelberg, Germany, Jul 2008

*VERITAS Observations of Mrk 421 in early 2008 with Simultaneous X-ray Coverage.*  
Workshop on Blazar Variability across the Electromagnetic Spectrum, Paris, France, Apr 2008

*Detecting the EBL attenuation of blazars with GLAST.*  
First GLAST Symposium, Palo Alto, CA, February 2007

*Detecting the EBL attenuation of blazars with GLAST.*  
HEAD Meeting, San Francisco, CA, October 2006

## Refereed Publications

### Collaboration Publications (Contributed Primary or Secondary Analysis)

Acciari, V. A. et al. for the VERITAS Collaboration, *VERITAS Observations of a Very High Energy Gamma-ray Flare from the Blazar 3C 66A*, ApJL, 693, 104, (2009)

Donnarumma, I. et al. for the AGILE, MAGIC, and VERITAS Collaborations, *The June 2008 Flare of Markarian 421 from Optical to TeV Energies*, ApJL, 691, 13, (2009)

Acciari, V. A. et al. for the VERITAS Collaboration, *VERITAS Discovery of  $>200$  GeV Gamma-Ray Emission from the Intermediate-Frequency-Peaked BL Lacertae Object W Comae*, ApJL, 684, 73, (2008)

### Collaboration Papers in Preparation (Contributed Primary or Secondary Analysis)

Abdo, A. A. et al. for the the Fermi-LAT and VERITAS Collaborations, *Multiwavelength*

*Observations of gamma-ray blazar 3C66A with Fermi and VERITAS*

Abdo, A. A. et al. for the the Fermi-LAT Collaboration, *Multiwavelength Observations of gamma-ray Blazar AO 0235+164*

Acciari, et al. for the VERITAS Collaboration: *VERITAS Observations of Mrk 421 from 2006 to 2008*

## Other Collaboration Papers

Acciari, V. A. et al. for the VERITAS Collaboration, *VERITAS observations of the BL Lac object 1ES 1218+304*, ApJ, in press

Acciari, V. A. et al. for the VERITAS Collaboration, *Discovery of Very High Energy Gamma-ray Radiation from the BL Lac 1ES 0806+524*, ApJL, 690, 126, (2009)

Abdo, A. A. et al. for the VERITAS Collaboration, *Fermi observations of high-energy gamma-ray emission from GRB 080916C*, Science, 10.1126/science.1169101, (2009)

Abdo, A. A. et al. for the Fermi-LAT Collaboration, *Bright AGN Source List from the First Three Months of the Fermi Large Area Telescope All-Sky Survey*, preprint (astro-ph 0902.1559)

Abdo, A. A. et al. for the Fermi-LAT Collaboraiton, *Fermi LAT Observations of the Vela Pulsar*, ApJ, in press

Atwood, W. B. et al. for the Fermi-LAT Collaboration, *The Large Area Telescope on the Fermi Gamma-ray Space Telescope Mission*, submitted to ApJ

Abdo, A. A. et al. for the Fermi-LAT Collaboration, *Early Fermi Gamma-ray Space Telescope Observations of the Quasar 3C 454.3*, submitted to ApJL

## Other Refereed Publications

Chen, A., Reyes, L.C., Ritz, S., *Detecting the Attenuation of Blazar Gamma-Ray Emission by Extragalactic Background Light with the Gamma-Ray Large Area Space Telescope*, ApJ, 608, 686, (2004)

Benitez, J. A., Reyes, L.C., *Simetrías*, Revista Colombiana de Física, 33, 56, (2001)

## Non-Refereed Publications

Cheung, C.C., Donato, D. & Reyes, L.C. for the Fermi LAT Collaboration, *Swift XRT/UVOT follow-up of blazar PKS 1118-056 after a gamma-ray flare*, The Astronomer's Telegram, ATEL #1943, 25 Feb 2009

Corbel, S. & Reyes, L. C. for the Fermi LAT Collaboration, *Fermi LAT detection of Increased Flux from new gamma-ray blazar PKS 0250-225*, The Astronomer's Telegram, ATEL

#1933, 19 Feb 2009

Reyes, L. C. & Corbel, S. for the Fermi LAT Collaboration, *Fermi LAT detection of a GeV flare from new gamma-ray blazar PKS 1118-056*, The Astronomer's Telegram, ATEL #1932, 18 Feb 2009

Cheung, C.C., et al. for the Fermi LAT Collaboration, *Fermi LAT Detection of a New Gamma-ray Transient in the Galactic Plane: J0910-5041*, The Astronomer's Telegram, ATEL #1788, 17 Oct 2008

Hays, E., Cheung, C. C. & Reyes, L. C. for the Fermi LAT Collaboration, *Fermi LAT Detection of Brightening of the Galactic Plane Source 3EG J0903-3531*, The Astronomer's Telegram, ATEL #1771, 8 Oct 2008

Corbel, S. & Reyes, L.C. for the Fermi LAT Collaboration, *Fermi LAT strong detection of blazar AO 0235+164 during outburst at Optical-to-Radio Wavelengths*, The Astronomer's Telegram, ATEL #1744, 26 Sep 2008

Reyes, L. C. for the VERITAS Collaboration, *VERITAS Observations of Mrk 421 during 2008 with Simultaneous X-ray Coverage*, High-Energy Gamma-ray Astronomy, AIP Conf. Proceedings, Vol. 1085, 581 (2008)

Reyes, L. C. for the VERITAS Collaboration, *VERITAS Observations of Mrk 421 in early 2008 with Simultaneous Coverage in the X ray Band*, Proceedings of the Workshop on Blazar Variability across the Electromagnetic Spectrum. April 22-25, 2008 Palaiseau, France. Published online at <http://pos.sissa.it>, p.57

Reyes, L.C. *Detecting the EBL Attenuation of Blazars with GLAST*, The First GLAST Symposium, AIP Conf. Proceedings, Vol. 921, 359 (2007)

Baldini, L. et al., *Preliminary Results of the LAT Calibration Unit beam tests*, The First GLAST Symposium, AIP Conf. Proceedings, Vol. 921, 190 (2007)

Funk, S. et al. *GLAST and Ground-based  $\gamma$ -ray Astronomy*, The First GLAST Symposium, AIP Conf. Proceedings, Vol. 921, 379 (2007)

Reyes, L. C., *LAT Integration: Comparison of High Rate and Baseline runs during the 2-tower integration tests*, LAT-DOC AM-07186, (2005)