

## **JAMES J. BEATTY**

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### **Professional Experience**

- 2004-                    Professor of Physics and Professor of Astronomy  
                                 Chair, Department of Physics (2008-)  
                                 The Ohio State University, Columbus, Ohio
- 1995-2004            Professor (2001-2004), Associate Professor (1995-2001)  
                                 Departments of Physics and of Astronomy and Astrophysics  
                                 The Pennsylvania State University, University Park, Pennsylvania
- 2001-2002            Visiting Scientist, Bartol Research Institute, The University of Delaware
- 1991-1995            Associate Professor (1994-1995), Assistant Professor (1991-1994)  
                                 Department of Physics and McDonnell Center for the Space Sciences  
                                 Washington University, St. Louis, Missouri
- 1986-1992            Assistant Professor of Astronomy and Physics (1989-1991)  
                                 Assistant Research Professor of Physics (1986-1989)  
                                 Boston University, Boston, Massachusetts
- 1982-1986            Research Associate (1986), Research Assistant (1982-1985)  
                                 Laboratory for Astrophysics and Space Research  
                                 Enrico Fermi Institute and Department of Physics  
                                 University of Chicago, Chicago, Illinois
- 1980-1982            Junior Research Technician  
                                 Department of Chemistry  
                                 University of Chicago, Chicago, Illinois

### **Education**

- 1982-1985            Department of Physics (S.M. 1984, Ph.D. 1986)  
                                 University of Chicago, Chicago, Illinois
- 1978-1982            Department of Chemistry (A.B. 1982)  
                                 University of Chicago, Chicago, Illinois  
                                 Special Honors in Chemistry, General Honors in the College.

### **Honors and Awards**

Fellow, John Simon Guggenheim Memorial Foundation. July 1, 2001 to June 30, 2002.  
Penn State Provost's Award for Collaborative Instructional Curricular Innovation, 1997.

## Selected Refereed Publications

Measurements of the Cosmic-Ray Positron Fraction from 1 to 50 GeV. The HEAT Collaboration (S. W. Barwick *et al.*). 1997. *Ap. J. Lett* **482**, L191-L194.

Properties and Performance of the Prototype Instrument for the Pierre Auger Observatory. J. Abraham *et al.* (Auger Collaboration). 2004. *Nucl. Instr. and Meth* **A523**, 50-95.

Constraints on Cosmic Neutrino Fluxes from the ANITA Experiment. ANITA Collaboration. (S. W. Barwick *et al.*). 2006. *Phys Rev. Lett.* **96**, 171101.

Calibration of the surface array of the Pierre Auger Observatory. X. Bertou, P. Allison, C. Bonifazi, P. Bauleo, C.M. Grunfeld, M. Agelitta, F. Arneodo, D. Barnhill, J.J. Beatty, N.G. Busca, A. Creusot, D. Dornic, A. Etchegoyen, A. Filevitch, P.L. Ghia, I. Lhenry-Yvon, M.C. Medina, E. Moreno, D. Nitz, T. Ohnuki, S. Ranchon, H. Salazar, T. Suomijärvi, D. Supanitsky, A. Tripathi, M. Urban and L. Villaseñor. 2006. *Nucl. Instr. and Meth. A* **568**, 839.

Observations of the Askaryan Effect in Ice. The ANITA Collaboration (P.W. Gorham *et al.*) 2007. *Phys Rev. Lett.* **99**, 171101. (hep-ex/0611008)

Correlation of the highest energy cosmic rays with nearby extragalactic objects. The Pierre Auger Collaboration (J. Abraham *et al.*). 2007. *Science* **318**, 938.

Observation of the suppression of the flux of cosmic rays above  $4 \times 10^{19}$  eV. The Pierre Auger Collaboration (Abraham, J. *et al.*). 2008. *Phys. Rev. Lett.* **101**, 061101.

Upper limit on the diffuse flux of ultrahigh energy tau neutrinos from the Pierre Auger Observatory. The Pierre Auger Collaboration (Abraham, J. *et al.*). 2008. *Phys. Rev. Lett.* **100**, 211101.

Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei. The Pierre Auger Collaboration (J. Abraham *et al.*). 2008. *Astroparticle Physics* **29**, 188.

Limit on the diffuse flux of ultrahigh energy tau neutrinos with the surface detector of the Pierre Auger observatory. The Pierre Auger Collaboration (Abraham, J. *et al.*). 2009. *Phys. Rev. D.* **79**, 102001.

New limits on the ultrahigh energy cosmic neutrino flux from the ANITA experiment. The ANITA Collaboration (Gorham, P.W. *et al.*). 2009. *Phys. Rev. Lett.* **103**, 051103.

The Highest-Energy Cosmic Rays. J.J. Beatty and S. Westerhoff. 2009. *Ann. Rev. Nuc. Part. Sci.* **59**, 319-345.

Energy spectra of cosmic ray nuclei at high energies. The Cream Collaboration (Ahn, H.S. *et al.*). 2009. *Ap. J.* **707**, 593-603.