

## **JAMES J. NAPOLITANO**

Professor of Physics  
January 19, 2005

### **EDUCATION**

1982 - Ph.D. in Physics, Stanford University  
1977 - M.S. in Physics, Rensselaer Polytechnic Institute  
1977 - B.S. in Physics, Rensselaer Polytechnic Institute

### **PROFESSIONAL CAREER**

1999 - Professor, Rensselaer Polytechnic Institute  
1999 - 2001 Interim Vice Provost for Information Technology, Rensselaer  
1996 - 1999 Associate Professor, Rensselaer Polytechnic Institute  
1992 - 1996 Assistant Professor, Rensselaer Polytechnic Institute  
1988 - 1992 Staff Scientist, CEBAF and CEBAF Assistant Professor, William & Mary  
1988 - 1988 Scientist, Argonne National Laboratory  
1983 - 1988 Assistant Scientist, Argonne National Laboratory  
1982 - 1983 Postdoctoral Research Associate, Argonne National Laboratory  
1979 - 1982 Research Assistant, Stanford University

### **RESEARCH INTERESTS**

Experimental Nuclear and Particle Physics  
- Exotic hadrons  
- Electroweak interactions and fundamental symmetries  
- Nucleon structure and excitations  
Distributed Computing  
Advanced Undergraduate Instructional Laboratory

### **RECENT COURSES TAUGHT**

Astronomy and Astrophysics (Spring 2005)  
Quantum Field Theory (Fall 2004)  
Quantum Mechanics (Fall/Spring 2002/2003 and 2001/2002)

### **RECENT PRESENTATIONS**

Hadronic Physics from CLEO, *Confinement 04*, Sardinia (2004)  
Charm at CLEO and CLEO-c, *Rencontres de Moriond*, La Thuile, Italy (2004)  
Exotic Hadrons, *Kent State University Physics Colloquium* (2004)  
Glueballs, *CLEO-c/BESIII Workshop*, Beijing (2004)  
CLEO-c  $J/\psi$  Physics: Goals and Reach, *CLEO-c Symposium*, Cornell (2003)  
Physics on the Grid, *Computer Science Seminar*, Rensselaer@Hartford (2002)

### **OTHER RECENT PROFESSIONAL ACTIVITIES**

Co-organizer, *GlueX/CLEO-c Workshop on Gluonic Excitations* (2005)  
Co-organizer, *Hadron Spectroscopy* at the 8th Int'l Intersections Conference (2003)  
Sabbatical leave, Cornell University and Laboratory for Elementary Particle Physics (2003-04)  
Published, *Experiments in Modern Physics*, with A. Melissinos (2003)

## PUBLICATIONS

Published 93 articles in Physical Review, Physical Review Letters, Nuclear Physics, Physics Letters, and Nuclear Instruments and Methods. (Total 2419 citations of these.)

Published one article in Reviews of Modern Physics (1999), with 76 citations.

Published about 60 articles in conference proceedings.

## SELECTED PUBLICATIONS: Current Research

- 1) "Search for  $\theta(1540)^+$  in the reaction  $K^+p \rightarrow K^+n\pi^+$  at 11-GeV/c", J. Napolitano, J. Cummings, and M. Witkowski, arXiv:hep-ex/0412031
- 2) "New measurements of Y(1S) decays to charmonium final states", R.A. Briere, et al., [CLEO Collaboration], Phys. Rev. D 70 (2004) 072001
- 3) "A study of the  $\eta\pi^0$  spectrum and search for a  $J^{PC}=1^+$  exotic meson", A.R. Dzierba, et al., Phys. Rev. D 67 (2003)094015
- 4) "A study of the reaction  $\pi^-p \rightarrow \omega\pi^-p$  at 18 GeV/c: The  $D$  and  $S$  decay amplitudes for  $b_1(1235) \rightarrow \omega\pi^-$ ", M. Nozar, et al., [E852 Collaboration], Phys. Lett. B 541 (2002) 35
- 5) "Photoproduction of the  $\rho^0$  meson on the proton at large momentum transfer", M. Battaglieri, et al., [CLAS Collaboration], Phys. Rev. Lett. 87 (2001) 172002

## SELECTED PUBLICATIONS: Prior research

- 1) "Standard Neutrino Spectrum from  $^8\text{B}$  Decay", John N. Bahcall, et al., Phys. Rev. C 54 (1996) 411
- 2) "Measuring the Strangeness Radius of the Proton", J. Napolitano, Phys. Rev. C 43 (1991) 1473
- 3) "Measurement of the Differential Cross Section for the Reaction  $^2\text{H}(\gamma,p)n$  at High Photon Energies and  $\theta_{\text{cm}} = 90^\circ$ ", J. Napolitano, et al., Phys. Rev. Lett. 61 (1988) 2530
- 4) "Calculations of Higher Multipole Components in a Large Superconducting Quadrupole Magnet", J. Napolitano and T. Hunter, Nucl. Inst. Meth. A301 (1991) 465
- 5) "Limits on Neutrino Oscillations from  $\nu_e$  Appearance", S.J. Freedman, et al., Phys. Rev. D 47 (1993) 811

## POSTDOCTORAL ASSOCIATES, PAST 5 YEARS, AND CURRENT AFFILIATIONS:

Michael Witkowski	Goddard Space Flight Center
Joachim Kuhn	Carnegie Mellon University
John Cummings	Rensselaer
Istvan Danko	Rensselaer

## GRADUATE MS and PhD STUDENTS, AND CURRENT AFFILIATIONS:

Ann M. Wright, PhD	University of Arkansas
Eric Candell, MS	<i>Deceased</i>
Mina Nozar, PhD	TRIUMF
Rebecca DiBari, MS	Goddard Space Flight Center
Jason Smith, MS	Brookhaven National Laboratory
Matthew Bellis, PhD	Carnegie Mellon University

**THESIS ADVISOR OF J. NAPOLITANO:** A.M. Litke, Stanford University