

**James J. Napolitano**  
Professor of Physics  
Rensselaer Polytechnic Institute

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### Education

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

### Professional Career

1999–date	Professor	Rensselaer Polytechnic Institute
1999–2001	Interim Vice Provost (Information Technology)	Rensselaer Polytechnic Institute
1996–1999	Associate Professor	Rensselaer Polytechnic Institute
1992–1996	Assistant Professor	Rensselaer Polytechnic Institute
1988–1992	Staff Scientist	Jefferson Laboratory
1988–1992	Assistant CEBAF Professor of Physics	College of William & Mary
1982–1988	Postdoc and Scientific Staff	Argonne National Laboratory

### Society and Professional Activities

Member, American Physical Society, since 1982  
NSF PHY Committee of Visitors, 2006  
NSF Physics at the Information Frontier Special Emphasis panel, 2006  
NSF Nuclear Physics Special Emphasis panel, 1999 & 2000  
- Chair in 2000  
Member, Project Kaleidoscope, Faculty for 21st Century, since 1996  
Member, Executive Committee, NY State Section of the APS, 1999-2002  
Member, EPSCoR Kentucky Site Visiting Committee, 1998 & 1999  
Co-organizer, Hadron Spectroscopy at the 6th Int'l Intersections Conference, 1997  
CEBAF User's Group Board of Directors, 1991 - 1992

### Graduate Advisors and Advisees

Ph.D. advisor: Alan M. Litke

Ph.D. advisees:

Ann. M. Wright (now at Hendrix College)  
M. Klusman (Numerica, Inc.)  
Mina Nozar (TRIUMF)  
Jason Smith (Brookhaven National Laboratory)  
Mathew Bellis (Carnegie Mellon University)  
Melissa Cravey Anderson (Siena College)

### Major co-authors (last 48 months, other than advisees)

G.S. Adams, J.P. Cummings, P.Stoler  
CLAS Collaboration: <https://clasweb.jlab.org/membership/memberlist.php>  
CLEO Collaboration: <http://www.lns.cornell.edu/public/CLEO/directory.pdf>  
BNL E852: <http://www.slac.stanford.edu/spires/find/experiments/www2?expt=BNL-E-0852>

## Research Interests

Experimental Particle and Nuclear Physics  
Distributed Computing  
Instructional Laboratory Technology

## Five Publications Related to the Proposal

1. “A precision measurement of the neutrino mixing angle  $\theta_{13}$  using reactor antineutrinos at Daya Bay,” arXiv:hep-ex/0701029 (2007), (with X. Guo *et al.* [Daya Bay Collaboration])
2. “The physics of charm: Recent experimental results,” arXiv:hep-ex/0610010 (2006), Presented at 26th International Symposium on Physics in Collision (PIC 2006), Buzios, Brazil, 6-9 Jul 2006.
3. “Dalitz plot analysis of the  $D^+ \rightarrow \pi^- \pi^+ \pi^+$  decay,” Phys. Rev. D **76**, 012001 (2007) (with G. Bonvicini *et al.* [CLEO Collaboration])
4. “Measurement of interfering  $K^{*+}K^-$  and  $K^{*-}K^+$  amplitudes in the decay  $D^0 \rightarrow K^+K^-\pi^0$ ,” Phys. Rev. D **74**, 031108(R) (2006) (with C. Cawfield, *et al.* [CLEO Collaboration])
5. “A study of the reaction  $\pi^- p \rightarrow \omega \pi^- p$  at 18-GeV/ $c$ : The  $D$  and  $S$  decay amplitudes for  $b_1(1235) \rightarrow \omega \pi$ ,” Phys. Lett. B **541**, 35 (2002) (with M. Nozar *et al.* [E852 Collaboration]).

## Five Other Significant Publications out of 118

1. “Light meson spectroscopy,” Rev. Mod. Phys. **71**, 1411 (1999) (with S. Godfrey).
2. “Standard Neutrino Spectrum from  $^8\text{B}$  Decay,” Phys. Rev. C **54**, 411 (1996) (with J. N. Bahcall, E. Lisi, D. E. Alburger, L. De Braekeleer, and S. J. Freedman).
3. “Measurement of the proton’s neutral weak magnetic form factor,” Phys. Rev. Lett. **78**, 3824 (1997) (with B. Mueller *et al.* [SAMPLE Collaboration]).
4. “Measurement Of The Differential Cross-Section For The Reaction  $^2\text{H}(\gamma, p)n$  At High Photon Energies And  $\theta_{CM} = 90^\circ$ ,” Phys. Rev. Lett. **61** (1988) 2530 (with R.J. Holt, *et al.*).
5. “Experiments in Modern Physics, Second Edition”, with Adrian Melissinos, Academic Press (2003) ISBN 0-12-489851-3