

New York State Section of the American Physical Society
87th Topical Symposium

Particle Accelerator Frontiers and New Physics Potential

Berkner Hall
Brookhaven National Laboratory
Upton, New York
October 17 – 18, 2003

Program Details

Friday, October 17, 2003

Berkner Hall Room B

9:00 - 12:00 NYSS-APS Executive Committee Meeting
(Breakfast at 8:45 a.m. Berkner Hall Room B)

Lunch (on your own) at Berkner Hall Dining
Room, open to all

12:20-1:20 **Registration** (Berkner Hall Lobby)

Session Chair: Zohreh Parsa, BNL

1:15 - 1:30 p.m. Welcome NYSS-APS
Welcome to BNL
Introduction

Convener:

1:30 - 2:15 p.m. New Light Sources
Steve Dierker, BNL

2:15 - 3:00 p.m. New Technology for X-Ray Sources
Sol Gruner, Cornell University

3:00 - 3:30 p.m. **Coffee Break**

Convener:

3:30 - 4:15 p.m. Free Electron Lasers
John Galayda, SLAC

4:15 - 5:00 p.m. Relativistic Heavy Ion Collider (RHIC)
Barbara Jacak, SUNY, Stony Brook

5:00 – 5:15 p.m. NYSS-APS Executive Committee Open
Meeting
Open to All

5:15 - 6:30 p.m. **Poster Session**

5:30 - 6:30 p.m. **Reception**

6:30 - 8:00 p.m. **Symposium Dinner**

8:00 - 9:00 p.m. **Public Lecture**
Past, Present and Future of High Energy
Physics & Accelerators
N. P. Samios

Saturday, October 18, 2003

Convener:

8:45 - 9:30 a.m. Underground Nucleon Decay and Neutrino
Observatory
Chang Kee Jung, (UNO) SUNY, Stony Brook

9:30 - 10:15 a.m. Future Neutrino Physics
William J. Marciano, BNL

10:15 - 10:45 **Coffee Break**

Convener:

10:45 - 11:20 a.m. Cosmic Accelerators and High Energy
Cosmic Rays
Alex Kusenko, UCLA

11:20 - 11:55 Large Hadron Collider (LHC)
John Parsons, Columbia University

12:00 - 1:30 p.m. **Lunch**

Convener:

1:30 - 2:05 p.m. Next Linear Collider (NLC)
Albrecht Wagner, DESY

2:05 - 2:40 p.m. Spallation Neutron Source
Norbert Holtkamp, Oak Ridge National Laboratory

2:40 - 3:10 p.m. **Coffee Break**

Convener:

3:10 - 3:45 p.m. High Intensity Muon Physics (MECO/RSVP)
John Sculli, New York University

3:45 – 4:00 p.m. **Closing Summary**

Tours

General Information:

Brookhaven National Laboratory (BNL) will host the 87th Topical Symposium of the New York State Section of the American Physical Society entitled "Particle Accelerator Frontiers and New Physics Potential". Experts in the field will discuss new developments in particle accelerators and their utilization for physics research. All presentations are aimed at the general interest level. In addition to invited talks, a poster session will be held during the meeting. We would like to invite all physics researchers and teachers to participate. Postdoctoral researchers, undergraduate and graduate students are strongly encouraged to attend.

During the symposium, coffee and refreshments will be provided free of charge for all registered participants and speakers. There is a symposium dinner Friday evening, for which tickets may be purchased at the time of registration. Preceding dinner, a reception will be held for all registered participants and speakers, compliments of the host at Brookhaven National Laboratory.

Information for Students:

The APS provides a limited number of grants to encourage student participation at these meetings. Information on how to apply can be found at the APS website: <http://www.aps.org/units/nyss/grants/index.html>. Attendance at this meeting is free if you are a student and you pre-register before the October 7th deadline. Students only pay half price for the Friday symposium dinner. Students are invited to present their work in the poster session. Some of the best presentations will receive awards.

Accommodations:

In an effort to accommodate conference attendees, a limited amount of on-site housing has been reserved. Please note that space is limited and rooms are reserved on a first come/first serve basis.

Building Name	Accommodations	Reserved	Rate
Guest House	Hotel style, A/C, Ethernet connection, telephone, private bath, 2 twin beds	13	\$77/night single \$81/night double
Curie House	(Women Only) Dorm style, A/C, Ethernet connection, telephone, shared bath, 1 bed	10	\$26/night
Compton House	(Men Only) Dorm style, A/C, Ethernet connection, telephone, shared bath, 1 bed	90	\$26/night

Important: If you and/or your guests plan to stay at one of the guest houses or dormitories at BNL, and are not a US citizen, please complete and submit the BNL Guest Registration Form (found at: <https://fsd84.bis.bnl.gov/guest/guestRegist.asp>) at least 30 days in advance of the conference date (9/17/03) so that we can arrange for your entrance permit to the conference site/Laboratory.

For further information regarding BNL on-site housing, as well as hotels, please visit the symposium website at www.nysaps2003.bnl.gov/housing.shtml.

Local Organizing Committee:

Dr. Zohreh Parsa (chair), Dr. Peter Paul, Dr. William Kilgore

If you have questions, send e-mail to: nysaps2003@bnl.gov
For online registration and other information, visit the symposium website:
<http://www.nysaps2003.bnl.gov>

New York State Section of the American Physical Society
87th Topical Symposium

**Particle Accelerator Frontiers and New Physics Potential
Registration Form**

To avoid late registration fee, return this form, together with your check for appropriate amount made payable to "Frontiers" by October 7, 2003 to:

NYS APS - 2003
C/O Dr. Zohreh Parsa
Physics Department, Bldg. 510A
Brookhaven National Laboratory
Upton, New York 11973-5000 USA

Preferred Title (Check One)	Prof.	Dr.	Mr.	Mrs.	Ms.
First Name				Last Name	
How would you like your nametag to read?					
Affiliation					
Mailing Address				Email	
City/Town		State		Zip Code	
Phone				FAX No.	
	Check One		The subject is:		
I plan to contribute a poster	Yes	No			

Registration Fee (Please check one)

Standard	\$25	
Student	No Charge	
Speaker	No Charge	

Banquet Fee (Please enter number attending)

Standard	\$35 per person	
Student	\$15 per person	
Guests	\$35 per person *	
Speaker	No Charge	

* Please provide the name(s) of your guest(s) in the boxes below. If you and/or your guests are not U.S. citizens, please complete and submit the BNL Guest Registration Form found at: <https://fsd84.bis.bnl.gov/guest/guestRegist.asp>. This must be completed at least **30 days in advance** of the conference date (9/17/03), in order to process permits for entrance to the Laboratory and the conference site.

Name of Guests (If any)	* Is guest a U.S. citizen?		Will guest be using on-site housing??	
	Yes	No	Yes	No

Registration fee: \$ _____ + Banquet Fee \$ _____ = Total Remittance: \$ _____

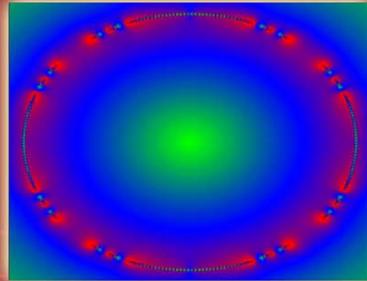
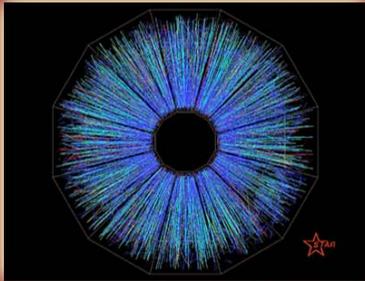
NYSAPS2003
c/o Dr. Zohreh Parsa
Physics Department, Bldg. 510A
Brookhaven National Laboratory
Upton, New York 11973-5000 USA



Particle Accelerator Frontiers and New Physics Potential Workshop

New York State Section of the American Physical Society
87th Semi Annual Symposium

October 17-18, 2003
Brookhaven National Laboratory
Upton, New York 11973-5000



For pre-registration, accomodation, and additional information see
www.NYSAPS2003.bnl.gov. Contact the Local Organizing Committee
Chair, Dr. Zohreh Parsa, at Physics Department, Building 510A
Brookhaven National Laboratory, Upton, NY 11973-5000; send e-mail to
nysaps2003@bnl.gov

<http://www.NYSAPS2003.bnl.gov>