



## First Bulletin

### International Workshop on Next Generation Nucleon Decay and Neutrino Detector (NNN99)

State University of New York at Stony Brook  
September 23-25, 1999

The State University of New York at Stony Brook will host an International Generation Nucleon Decay and Neutrino Detector (NNN99). The Workshop will be held in the Student Activity Center auditorium on the Stony Brook west campus, Thursday, September 23-25, 1999.

The Workshop is sponsored by the State University of New York (SUNY) at Stony Brook Brookhaven National Laboratory. The content of this bulletin, registration information on the Workshop can be directly accessed via the Workshop website:  
<http://superk.physics.sunysb.edu/NNN99>.

#### 1. Scientific Program

The success of the large nucleon decay/neutrino detectors of the 1980's and the progress in the feasibility of constructing larger detectors and/or detectors with high energy thresholds like Kamiokande, SNO, and the other existing nucleon decay/neutrino detectors. The workshop will explore the physics motivations and technical feasibility of pushing this program into the next millenium. Topics will include:

- Search for nucleon decay
- Measurement of the flux and energy spectrum of neutrinos from the Sun and other sources
- Measurement of the flux and composition of atmospheric neutrinos
- Search for high energy sources of astrophysical neutrinos
- Accelerator based neutrino oscillation experiments
- Feasibility of large underground cavities
- Water versus non-water detector options
- Instrumentation
- Mechanical design

The Workshop will consist of plenary talks and working group sessions. The the theoretical and experimental status of nucleon decays, solar neutrinos, accelerator neutrinos and reactor neutrinos. A full day of working group s discussions of new ideas. There will be four working group sessions:

- Nucleon Decay Group
- Atmospheric and HE Astrophysical Neutrino Group
- Solar and Supernova Neutrino Group
- Accelerator Neutrino Group

For more details, please see the attached preliminary scientific program of

## II. Contributed Papers

Papers relevant to the scientific program may be submitted to the Workshop should be submitted to the following e-mail address in postscript form by A svoboda@phlash.phys.lsu.edu. The submitted papers will be then distributed speakers and/or the working group leaders. The list of submitted papers in short abstract no more than 10 lines, and e-mail and website information (k themselves) will be included in the Proceedings.

## III. Proceedings

Copies of the transparencies from all talks will be accessible via the Work the conclusion of the Workshop. Written proceedings of the Workshop will be

## IV. Registration

To register please complete the enclosed registration form as accurately as processing. The registration fee for the Workshop is \$175 if paid before A afterwards. This includes coffee breaks, a welcome reception, the banquet, c local transportation. (Please note that this does not include the Sunday t Extra tickets for the banquet are available if you wish to bring guests.

Payment of registration fees may be made by cash (at the registration desk) must be a bank draft, certified check, or money order in US dollars. Person a US bank. Make checks or money order payable to SBF 266430. Regretfully, currency will be returned. Please include your check or money order when s form to the address below. Please include the name of the registrant on th

Acknowledgment of registration will be sent upon receipt of the official reg registration will not be effective until receipt of payment (check or money Brook High Energy Physics office.

Please send the registration form to:

Ms. Joan Napolitano, NNN99 Workshop Secretary  
High Energy Physics Group  
Dept. of Physics and Astronomy  
State University of New York at Stony Brook  
Stony Brook, New York 11794-3800  
USA

## V. Financial Support

While all participants are expected to cover their own travel expenses and : funds are available from the workshop sponsors to provide partial support budget. Grants will cover the registration fees. A request for registration: Workshop Secretary at NNN99@superk.physics.sunysb.edu by June 30, 1999.

## VI. Accommodations

There are three hotels available in the vicinity of the university: the Hol Inn, and the Three Village Inn. A limited number of rooms are set aside fo Each participant is responsible for making his/her own reservation and is er reservation as early as possible since we expect large demands for rooms du: Coming weekend which overlaps with the Workshop. Please mention NNN99 Works reserving rooms. There will be a shuttle bus service between the Holiday I in the mornings and evenings during the Workshop.

### Holiday Inn Express - Stony Brook

Price: \$89.00 / night  
Phone: (516)471-8000 or 1-800-HOLIDAY  
Fax: (516)471-8623  
Only serves Continental Breakfast (no other meals)

### Danford's on the Sound - Port Jefferson

Distance from Campus: 8 Miles (12.4 km)  
Price: \$99.00 / night  
Phone: (516)928-5200 or 1-800-332-6367  
Fax:(516)928-3598  
Waterfront (Port Jefferson Harbor), downtown Port Jefferson, many shops an

### Three Village Inn

Price: \$99.00 - Thursday (Single), \$109.00 - Friday (Single)  
Phone: (516)751-0555  
Fax: (516)751-0593  
Waterfront, Historic Landmark, Stony Brook Village Center

## VII. Transportation

There are three major airports from which Stony Brook is easily reached. The Airport in Islip is 25 minutes (16 miles) from the campus and is serviced by airlines and commuter lines. Kennedy and LaGuardia airports are about an hour (30 miles) to the west. Rental car, taxi, shared shuttle bus, and limousine service are available to all airports. If arriving in JFK or LaGuardia, an airport shared shuttle bus will take you to Stony Brook (count on about a two hour ride), or about \$60.00 for a taxi service. If you arrive at Islip MacArthur airport, it will cost only \$15 for a limo or taxi service. However, if you call in advance and arrange a limo you will get much cheaper rates. More detailed information will be provided in the Workshop website.

Stony Brook can also be reached by train from Manhattan Penn Station via the Long Island Rail Road (LIRR) and by ferry across Long Island Sound from Bridgeport, Connecticut to Orient Point, Long Island and from New London, Connecticut to Orient Point, Long Island. The Stony Brook station is on campus.

There will be shuttle bus service between the Holiday Inn Express and the Workshop evenings during the Workshop. Transportation to and from the Workshop banquet will be provided.

A limited number of parking permits will be available for participants. They will be distributed to registered participants on a first-come-first-served basis. With a parking permit, you can park in all parking lots on campus. Parking is relatively easy before 10 AM and after 4 PM.

## VIII. Social Events

The following events are planned for Workshop participants and their companions.

Welcoming Reception, Thursday, Sep. 23, 6:30 - 9:00 PM, University Club:  
All participants and their companions are welcome at free of charge.

Workshop Banquet, Friday, Sep. 24, 7:00 - 11:00 PM, Old Field Country Club:  
A buffet style banquet will be held at the Old Field Country Club at the Westport location. Live band music will be provided. Companions are welcome to join the banquet with a companion ticket. Companion tickets need to be purchased in advance.

Sunday Theater, "Ragtime", Sunday, Sep. 26, 3:00 PM show, Ford Center for the Performing Arts:

A limited number of tickets are group-purchased for the convenience of the Workshop participants who wish to see the hit Broadway musical "Ragtime" (winner of 4 Tony Awards) at the Ford Center for the Performing Arts in Manhattan. The show time is 3:00 PM on Sunday, Sep. 26, available to the Workshop participants on a first-come-first-served basis. Tickets are \$33 for the 1st balcony (dress circle) or the orchestra seats and \$33 for the 2nd balcony. No transportation will be arranged by the Workshop for this trip. Participants are responsible for their own transportation.

their own travel arrangements. The theater can be reached conveniently by transportation from Stony Brook. One could also use local limousine service.

#### IX. Companion Programs

Companions are welcome to join all Workshop social events: Workshop reception, theater trip. There will be a fee for the banquet (\$50/person) and the Survey should be purchased in advance.

Based on a survey, additional social activities for companions will be arranged and posted in Bulletin #2.

#### X. Local Information

The Stony Brook campus is located in the middle of Long Island about 60 miles from the north shore beaches (5 minutes by car) and the south shore reached in 30 minutes. At the east end of Long Island, one can find the famous wine country with many local wineries. The weather in September is expected to be variable but pleasant.

#### XI. Workshop Correspondence

Submit all correspondence to the Workshop secretary:

Ms. Joan Napolitano, NNN99 Workshop Secretary  
High Energy Physics Group  
Dept. of Physics and Astronomy  
State University of New York at Stony Brook  
Stony Brook, New York 11794-3800  
USA

NNN99@superk.physics.sunysb.edu  
Phone 516-632-8095  
Fax: 516-632-8101

#### XII. Deadlines to Remember

- Request for financial support (registration fee waiver): June 30, 1999
- Early registration with \$175 fee: August 31, 1999 (\$200 after this date)
- Reservations for Hotels for the blocked rooms: Aug. 22, 1999
- Contributed papers: Aug. 22, 1999

### XIII. NNN99 Workshop Committees

#### International Advisory Committee

J. Bahcall	IAS/Princeton
R. Cowsik	IIAP
L. DiLella	CERN
G. Feldman	Harvard
T. Gaisser	Bartol
M. Goldhaber	BNL
F. Halzen	Wisconsin
W. Haxton	Washington
P. Langacker	UPenn
W. Marciano	BNL
L. Moscoso	CEA/Saclay
K. Nakamura	KEK
J. Peoples	Fermilab
F. Sciulli	Columbia
H. Sobel	UCI
C. Spiering	DESY/Zeuthen
P. Strolin	Napoli
Y. Totsuka	ICRR/Tokyo
F. Wilczek	IAS/Princeton
S. Wojcicki	Stanford
C.N. Yang	ITP/StonyBrook

#### Organizing Committee

D. Casper	UCI	
M. Diwan	BNL	(Co-chair)
R.L. Hahn	BNL	
C.K. Jung	Stony Brook	(Co-chair)
T. Kajita	ICRR/Tokyo	
R. McCarthy	Stony Brook	
C. McGrew	Stony Brook	
J. Napolitano	Stony Brook	(Secretary)
K.K. Ng	Stony Brook	(computing support)
A. Rubbia	ETH/Zurich	
D. Schamberger	Stony Brook	(Technical/computing support)
R. Shrock	Stony Brook	
B. Svoboda	LSU	(Chair, Program Committee)
C. Yanagisawa	Stony Brook	