

QUARK MATTER 2001
SECOND ANNOUNCEMENT
AUGUST 2000

This is the second announcement for Quark Matter 2001, the 15th International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions. This announcement provides details on the conference organization, conference registration, student program, social and companion programs, and information on contributions to the scientific program.

Up to date information regarding the conference and on-line registration forms can be found on our new and enhanced secure web site at:

<http://www.rhic.bnl.gov/qm2001/>

or through our old site:

<http://www.c-ad.bnl.gov/qm2001/>

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⇒ **Important Dates:**

Registration Opens	September 8, 2000
Abstract Submission Begins	September 8, 2000
Abstract Submission Closes	October 15, 2000
Student Applications Due	October 15, 2000
Early Registration Closes	December 1, 2000
Hotel/Dorm Reservations	December 1, 2000
Conference Dates	January 15-20, 2001

⇒ **General Information:**

The Fifteenth International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions (QM 2001) will be held on Long Island, New York, January 15 – 20, 2001. The main site of the conference will be on the campus of the State University of New York at Stony Brook, New York. It will include an afternoon of parallel sessions and tours of the Relativistic Heavy Ion Collider (RHIC) facility at nearby Brookhaven National Laboratory.

⇒ **Conference Fees:**

The all-inclusive fee for Quark Matter 2001 will be **US \$450**. This fee covers the costs of the scientific program, the conference proceedings, coffee breaks, 6 lunches, the conference banquet, and the special conference excursion to the American Museum of Natural History, and Rose Center for Earth and Space in New York City. All registered participants are invited to attend the welcome reception and a reception at BNL.

For conference participants who register and pay in full **before December 1, 2001**, the fee will be reduced to **\$350**. Those participants who register and pay in person at the conference will pay an additional surcharge of **\$50** (for a total fee of **\$500**) unless an arrangement is made with the conference secretariat before December 1. Please note that participants who register **after January 1, 2001** cannot be guaranteed places at the conference lunches due to restrictions imposed on us by the caterer.

Graduate students in relativistic heavy ion physics can apply **before October 15** for a special conference fee of **\$150**, which must be paid in full before December 1, 2000. **After this date students must pay the standard conference fee of \$450.** This special fee covers all conference functions and entitles the students to attend the series of special events intended to enhance their educational experience.

⇒ **Registration:**

Registration and secure payment by credit card can be accomplished electronically through the Conference web site. Reservations and payments for excursions and tours for accompanying person(s) can also be made through the reservation web site. Please note that payment in full must be received **before December 1, 2000** to receive either the reduced conference registration rate of \$350, or the special student rate of \$150. Please be reminded that participants who register **after January 1, 2001** cannot be guaranteed places at the conference lunches due to restrictions imposed on us by the caterer.

Complementary **parking stickers must be requested in advance** using the conference Travel Registration form on the web. These stickers will permit a free single entrance per day in a garage close to the conference functions.

⇒ **Scientific Program:**

Abstracts for contributed papers must be received by October 15, 2000. Instructions for the electronic submission and preparation of abstracts are posted on the conference web site. **Participants must register and receive a conference ID number before submitting an abstract.** The official language of the conference will be English.

The program will feature seven plenary sessions covering:

First Results from RHIC

Perspectives and reviews of AGS and SPS physics

QGP Signatures: strangeness, direct photons, dileptons, charm production, p_t broadening and hadronic observables

Phase Diagram and bulk properties: extraction of freezeout parameters, collision dynamics, hadron production

QCD, perturbative and lattice

Initial conditions and small-x physics, proton-nucleus collisions, new quarkonium results

Confinement and phase transition signatures

Flow, fluctuations, and baryon number transport

Astrophysics applications

There will also be three parallel sessions with papers on results from RHIC, SPS, and AGS, as well as theory and instrumentation.

⇒ **Preliminary Conference Schedule:**

Sunday	January 14	2 PM	Student Pre-Symposium	Javits
		6 PM	Registration and Reception	Javits
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Monday	January 15	8 AM	Registration	Javits
		9 AM	Opening Session	Staller
		10 AM	Plenary I - Perspectives	Staller
		2 PM	Plenary II	Javits
		8 PM	Public Lecture by Lawrence Krauss	Staller
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Tuesday	January 16	9 AM	Plenary III	Javits
		1 PM	Buses to Brookhaven National Laboratory	
			Parallel Session	BNL
			RHIC Facility Tours	
		6 PM	Reception at BNL	
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Wednesday	January 17	9 AM	Plenary IV	Javits
		2 PM	Parallel Session II	Javits
		8 PM	Banquet	Wyndham Hotel
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Thursday	January 18	9 AM	Plenary V	Javits
		1 PM	Excursion to American Museum of Natural History and Rose Center for Earth & Space	
.....
Friday	January 19	9 AM	Plenary VI	Javits
		2 PM	Parallel Session III	Javits
.....
Saturday	January 20	9 AM	Plenary VII - Summaries	Javits
		2 PM	Conference Adjourns	

Staller = Staller Center for the Arts - Main Stage

Javits = Javits Lecture Center

⇒ **Talks and Proceedings:**

Facilities will be available for the presentation of all plenary talks and many of the parallel talks using direct data projection of computer displays (PC and Mac compatible), as well as the more traditional overhead projectors. Transparencies of the plenary talks will be published electronically on the Conference web site to facilitate ease of access. Detailed instructions to speakers will be posted on the conference web site.

The proceedings of the conference, containing all talks presented in the plenary and the parallel sessions, will be published in Nuclear Physics A as for the previous Quark Matter Conferences.

⇒ **BNL Day:**

A special afternoon is planned at Brookhaven National Laboratory on Tuesday. The afternoon will provide a unique opportunity to tour the RHIC accelerator facilities and the four RHIC experiments. Experimental poster sessions will be held at the large experimental halls, and theory parallel sessions will run concurrently. The afternoon will conclude with a reception and a ceremonial marking of the beginning of the RHIC era.

⇒ **Student Program:**

Quark Matter 2001 is designed to provide a program to enhance the educational experience for students and young scientists. We also expect to have a limited pool of funds available to support the attendance of students. Students interested in attending the conference should register and apply for the program through the conference web site before October 15. Accepted applicants will be entitled to pay a special reduced fee for the conference, \$150, if it is paid in full before December 1, 2000. Accepted applicants will also be entitled to stay in low cost dormitory housing on the BNL site. Bus transport to and from conference activities will be provided. Low cost meals will be available at BNL and on campus for breakfast and dinner.

We have planned several activities specifically for students. On the Sunday afternoon preceding the conference, there will be a 3-hour mini-symposium covering experimental and theoretical information relevant to the conference. The topics covered will include the importance of heavy-ion physics, the current experimental and theoretical understanding based on what is known from AGS/SPS/RHIC, and the most exciting speculative questions in the field. On Monday evening Prof. Lawrence Krauss has been invited to give lecture, open to the public, on RHIC. That evening we plan to have a dinner for him and the students, where he will discuss the role of science and the public scientist in today's society. On Friday we will sponsor a luncheon for students with more senior scientists. This luncheon will be an excellent time for students to expand their scientific interactions in an informal setting. In addition to these activities, the Tuesday trip to BNL will allow students to tour the four RHIC experiments and discuss experimental and physics issues with RHIC scientists.

Application instructions are given on the student section of our web site.

⇒ **Meals and Social Program:**

During the conference there will be refreshments served at breaks during the morning and afternoon sessions. All participants who have registered before January 1, 2001 will be provided with lunches from Monday through Saturday.

Quark Matter 2001 will provide ample opportunities for extracurricular activities and social interactions. Participants will receive complementary admission to all these functions. These include:

Sunday, January 14 Welcome Reception at the Javits Lecture Center

Monday, January 15 Evening public lecture by Prof. Lawrence Krauss, an internationally known theoretical physicist with wide research interests, including the interface between elementary particle physics and cosmology, where his studies include the early universe, the nature of dark matter, general relativity and neutrino astrophysics. Prof. Krauss is the author of several acclaimed popular books, including, "The Fifth Essence: The Search for Dark Matter in the Universe", "Fear of Physics" and "The Physics of Star Trek", which was a national best seller. In February 2000, in Washington D.C., Prof. Krauss was awarded the American Association for the Advancement of Science's 1999-2000 Award for the Public Understanding of Science and Technology. Previous awardees include Carl Sagan (1995) and E.O. Wilson (1994).

Tuesday, January 16 Reception at BNL hosted by Brookhaven Science Associates and corporate sponsors.

Wednesday, January 17 Conference Banquet at the Wyndham Windwatch Hotel.

Thursday, January 18 The conference excursion will be to New York City to visit the American Museum of Natural History.

In February 2000 the American Museum of Natural History opened a spectacular new destination -- The Rose Center for Earth and Space. Inside the Rose Center rests the new Hayden Planetarium, featuring the most technologically advanced Space Theater in the world; the Cullman Hall of the Universe; and the Gottesman Hall of Planet Earth. The inaugural Space Show, "Passport to the Universe" offers viewers a 3-D tour of the universe, where they will seem to "fly" through a scientifically accurate virtual recreation of our galaxy and beyond. The cutting-edge technology that makes this possible includes a customized one-of-a-kind Zeiss Starr Projector, the most advanced in the world, and a Digital Dome System, which in essence makes the Space Theater the most powerful virtual reality simulator in the world. Participants will be able to view this show, as well as any of the other Museum exhibits. Highlights include the world famous Dinosaur Halls, the Hall of African Mammals, the critically acclaimed Hall of Biodiversity, and the brand new Hall of Planet Earth.

Additional tickets for companions for all events can be purchased through the registration process.

⇒ **Hotel Accommodations:**

Quark Matter 2001 has secured 300 rooms in several hotels at special conference rates. Registrants must secure rooms directly from the hotels and identify themselves as “Quark Matter” participants. These rooms must be **reserved and confirmed before December 1** to receive these reduced rates. It is assumed that those people directly involved in the RHIC data run will use the housing facilities that they normally use for BNL visits. All housing will be available on a first-come, first-served basis. Shuttle bus service will be provided to and from select hotels and dormitories, and for the main off-campus conference functions (i.e. BNL day, excursions and banquet). The accommodation choices are as follows:

1. **The Wyndham Windwatch Hotel** – this is the main conference hotel, and is a full service hotel providing the best Long Island has to offer. The conference rate for single or double occupancy is \$140 per night. The hotel is located approximately 25 minutes by car from Stony Brook, 20 minutes from BNL, and 10 minutes from express trains (LIRR) connecting to New York City. The conference will provide shuttle bus service to and from this hotel. The hotel provides complementary shuttle service to the LIRR station. All of the organized companions’ tours will depart from this hotel.
2. **The Best Western Motel** – located conveniently on the Long Island Expressway less than 20 minutes from campus. Room rates are \$95/night single or double. The conference will provide shuttle bus service to and from this motel.
3. **The Holiday Inn Express** –offers a warm welcome, clean, comfortable rooms and a complimentary fresh breakfast bar every morning. It is located just 10 minutes from campus and is a recommended location for participants with cars. Room rates are \$115 single or double.
4. **Dormitories** at Brookhaven National Laboratory. We have reserved rooms specifically for students attending the conference. The conference organizers will make reservations for these rooms after acceptance into the student program. Room rates are \$18/night. The conference will provide shuttle bus service to and from BNL to all conference functions. Low cost breakfasts are available in the BNL cafeteria and Stony Brook Student Activity Center.

⇒ **Local Transport:**

The shuttle bus schedule from hotels and dormitories will be announced later.

Ample parking will be available on campus and in a garage close to the conference functions. Complementary **parking stickers must be requested in advance** using the conference Travel Registration form on the web. These stickers will permit a free single entrance per day in a garage close to the conference functions.

⇒ **Travel:**

Stony Brook is located on the North Shore of Long Island approximately 100km from New York City and is served by 3 major airports (JFK and LaGuardia are recommended). A local smaller airport (Long Island, MacArthur) is only 10km from the Wyndham Hotel and 15km from campus. Limousine service is available from all airports.

The campus has direct service from the Long Island Rail Road, and is also easily reachable by car. Travel information is available on the web site, as is information on discounts for domestic travel using SouthWest Airlines into Islip.

Please provide us with your travel plans for arrival and departure as soon as it is available by completing the travel form on the web. We plan to provide a limited number of conference buses from JFK and LaGuardia airports on Sunday, January 14 and back on Saturday, January 20. The schedule will be announced once the demand and travel schedules of participants are known.

⇒ **Quark Matter 2001 Companions Program:**

Our companion program offers a chance to see the unique heritage of Long Island and witness the excitement of New York City. Long Island is appropriately shaped like a fish with much of its history surrounding the fishing industry. With beautiful beaches and fine shopping and dining, and the world class cultural offering in nearby Manhattan, Long Island is truly a wonderful place to live, work, and visit no matter what time of year.

Each day our tours will depart from the Wyndham Hotel, where the Companion Program will maintain a desk for tour reservation and area information. Monday's tour will meet at 9:30am in the Lobby. Future times will be posted at the desk and at the Conference Office in Stony Brook. The weather can be cold, between 20-32 degrees Fahrenheit so bring warm clothing, hats and gloves so you can fully enjoy what our beautiful Long Island has to offer.

Many of the tours will require a minimum number of participants. We will also arrange special excursions to some of the wonderful shopping malls on Long Island for smaller groups and those not wishing to participate in full day activities. These excursions can be arranged at the desk during the conference.

Reservations and payments for excursions and tours for accompanying person(s) can be made at a later date through the web site, which will provide more details on the tours.

⇒ **Further Information and Correspondence:**

Collaborations that would like to hold meetings before or after the conference should contact the organizers as soon as possible.

A Town Meeting, part of the information-gathering process for the next Nuclear Physics long-range plan, is scheduled to be held at BNL directly after the conclusion of Quark Matter 2001 (January 21 through 23). For more information please contact Tom Ludlam (ludlam@bnl.gov)

Questions, correspondence and requests for additional information should be sent by email to the conference secretariat (Doris Rueger) at:

qm2001@bnl.gov