



J. Itten "Revelation", 1967, © VG Bild-Kunst Bonn, 1995

# Quark Matter '96

Heidelberg, Germany

Twelfth International Conference on  
Ultra-Relativistic Nucleus-Nucleus Collisions  
May 20-24, 1996

## Final Announcement

### International Advisory Committee

G. Baym, Urbana  
H. Gutbrod, Nantes  
M. Gyulassy, Columbia  
O. Hansen, Copenhagen  
J. Harris, Berkeley  
K. Kajantie, Helsinki  
L. Kluberg, Palaiseau  
T. Ludlam, Brookhaven  
B. Müller, Duke  
S. Nagamiya, Columbia  
A. Poskanzer, Berkeley  
L. Riccati, Torino  
J. Schukraft, Geneva  
B. Sinha, Calcutta  
K. Yagi, Tsukuba  
G. Zinoviev, Kiev

### Organizing Committee

P. Braun-Munzinger, Darmstadt  
H. Satz, Bielefeld  
H.J. Specht, Darmstadt (Chair)  
J. Stachel, Heidelberg  
R. Stock, Frankfurt  
H. Stöcker, Frankfurt  
W. Weise, München

The Twelfth International Conference on Ultra-Relativistic Nucleus-Nucleus Collisions will be held from May 20-24, 1996 in Heidelberg, Germany. The site will be the Kongreßhaus Stadthalle on the Neckar river in the center of old Heidelberg, and the conferees will be housed in a number of surrounding hotels within walking distance. The conference will be organized jointly by GSI Darmstadt and the University of Heidelberg.

### Scientific Program

The main focus of the conference will be on strongly interacting matter at high energy density. Items to be discussed will include new data from experiments with very heavy ions at Brookhaven and CERN, theoretical developments, related astrophysical aspects and future perspectives. The program as scheduled at present is enclosed with this final announcement. It consists of eight plenary sessions, grouped according to topics. Besides 38 invited talks, 15 contributions have been

Mailing Address: Quark Matter 96, GSI, Planckstrasse 1, D-64291 Darmstadt, Germany  
Phone: +49 6159 71 2648 and 2649, Fax: +49 6159 71 2991, Internet: qm96@GSI.de  
[www-url:http://qm96.gsi.de/welcome](http://qm96.gsi.de/welcome)

selected out of more than 200 submitted by March 20, 1996. Parallel sessions are not foreseen, but there will be an extensive poster display. The official language of the conference will be English.

The session topics have been defined in a way to assess, apart from few general talks, the present insight into nuclear collision results from BEVALAC/SIS to SPS energies. While the opening session on Monday morning is purely theoretical, the concluding session on Friday morning is centered around four review talks by experimentalists, summarizing the status of the field. Explicit talks on RHIC or LHC and the associated detector developments are not foreseen, since the Organizing Committee felt this to be well covered by the preceding conference in Monterey. Those of you who seriously miss this are invited to contact the organizers. If there would be sufficient interest, a special experimentalists session could be arranged on Friday afternoon, i.e. right after the official closing of the meeting.

### Posters

At present, 85 contributions for the poster exhibition have been submitted, including those which were originally sent in for oral presentation. Authors who have not yet indicated their participation in the poster session are asked to do so immediately. A list of all registered posters will be available upon arrival. The board size has now been unified to only one format, 80 cm wide and 100 cm high. The posters will be displayed in rooms used also for the coffee breaks, and will be accessible throughout the conference week. The poster exhibition will be formally opened on Monday evening after the reception, and authors are expected to be present then for discussions with the other conference participants.

### Proceedings

The proceedings of the conference, containing the invited talks and the contributions selected for oral presentation, will be published in *Nuclear Physics A*. All participants will receive a copy of the proceedings; the cost is included in the registration fee. The deadline for receipt of the manuscripts is *August 15, 1996*, and will be handled very rigidly. Instructions for preparing the manuscripts will be sent by Elsevier/North Holland directly to the speakers.

### Registration

At present 550 participants have preregistered according to the procedure proposed in the second conference announcement. Confirmation of registration is done upon arrival by paying the conference registration fee. The normal fee will be DM 400,-; a reduced fee of DM 200,- is available for undergraduate and graduate students. The conference fee includes coffee breaks and lunches from

Monday to Friday, the welcome on Sunday evening, the reception on Monday evening, the concerts on Tuesday evening, the excursion on Wednesday afternoon, the conference dinner on Thursday evening, and the conference proceedings. The registration fee for companions will be DM 100,- including the receptions, the concerts, the excursion and the dinner. The fees are due in cash, traveler checks, Eurochecks or international money orders. Currencies other than DM, personal checks and credit cards cannot be accepted.

Upon payment, you will receive a receipt, a name badge and a conference bag with the dinner ticket and further information not yet included with this final announcement. Please wear your name badge at all times. It will also be used, instead of lunch tickets, as an entrance card to the lunch rooms adjacent to the conference center.

The registration desk at the conference site will be open on Sunday from 3 p.m. until 9 p.m., and from Monday to Friday from 8 a.m. to 6 p.m., except for Wednesday and Friday (closing 2 p.m.).

#### Student support

A limited number of students can receive financial support beyond the reduction of the conference registration fee. A number of applications have been received by now, and those who have not yet applied should do so immediately via electronic mail and not wait until the beginning of the conference. The support of students in Germany is organized by R. Stock in Frankfurt, and the respective university groups have just been contacted directly by him. Applications should be channelled by the local group leaders; deadline is May 15, 1996.

#### Lodging

Hotel reservations must be made directly via the Congress Service Heidelberg. The corresponding form has been sent out together with the second conference announcement. If you have not received it, please let us know by electronic mail (indicating a fax number). If you have not made your booking yet, please do it immediately since the hotel situation in Heidelberg is notoriously difficult.

#### Travel

Heidelberg is a one-hour drive south of Frankfurt airport. Participants arriving by plane can continue to Heidelberg by train, by rented car or by special transportation as indicated on the hotel reservation form. If you wish to use the train (total costs about DM 23,-), you first have to go to Frankfurt Hauptbahnhof via the special airport connection (train about every 20 min) and continue from there to Heidelberg Hauptbahnhof (about every hour). The most convenient, but

also more expensive way (DM 45,- one way) is to use the TLS Minibus. Here, a reservation including flight information is mandatory (Tel. +49-6221-77 00 77). You will meet the driver, carrying a „TLS-Heidelberg“ badge, at the „Meeting Point“ on the arrival level of terminal 1, section B at Frankfurt airport, and he will transport you directly to your hotel in Heidelberg. Another, somewhat cheaper way (DM 36,-) is to use the official Lufthansa bus. Reservation is recommended (Tel. +49-69-255 4361). You will enter the bus right in front of the „Meeting Point“ outside the building, and it will drop you off at the Renaissance Hotel in Heidelberg.

Participants traveling to Heidelberg by train from Frankfurt or from elsewhere can benefit from special rates offered in connection with the hotel reservation; the corresponding price list is attached to the hotel reservation form. Participants traveling by car can find an underground parking garage right below the conference center, but at a price (e.g DM 12.50 for 10 hours, DM 28.50 for 24 hours). Downtown Heidelberg is restricted to pedestrians.

Your hotel in Heidelberg can (hopefully) be located on the Heidelberg map enclosed with this final announcement. The conference center Kongreßhaus Stadthalle is also indicated there; a special map for its location is again included with this announcement. Finally, some direction signs „Quark Matter 96“ will be positioned at the Heidelberg exit of the Autobahn and at strategic points within the city.

### Social program

There will be an informal welcome on Sunday evening from 6 p.m. to 8 p.m. with drinks and snacks, and a reception on Monday evening from 6.15 p.m. onwards again with drinks and snacks, leading over to the opening of the poster exhibition. Both events are within the conference center, on Sunday evening probably centered on the ground (first) floor, on Monday evening on the second floor.

On Tuesday evening, two musical events are foreseen, taking place in parallel. One is a concert with classical music in the *Alte Aula* of Heidelberg University, offering chamber music by Mahler, Messmer (a young Heidelberg composer) and Brahms. The other is a Jazz evening in a special hall of a traditional Heidelberg student pub. The detailed program of both events will be contained in your conference bag and will help you to make your choice. Since the number of seats is limited to about 2/3 (classic) and 1/3 (Jazz) of the total number of participants, tickets will be available, free of charge, on a first-come-first-served basis. Please pick them up by Monday night.

The conference excursion on Wednesday afternoon will be a 4-5 hour boat trip up the Neckar river. The starting time will be around 2 p.m., and the two boats needed to carry all conference attendants and their companions will start, only a few steps away, right in front of the conference center. Depending on weather conditions, the trip may contain a break somewhere upstream with a walk through Neckarsteinach and up to one of the many medieval castles. The boats will return to Heidelberg by about 7 p.m., and for the evening you will be left on your own to enjoy the attractions of the city.

The conference dinner on Thursday evening will be in the *Königssaal* and the *Faßkeller* of the Heidelberg castle. The courtyard of the castle will be closed for the general public and reserved to the conference participants and their companions already 1-1½ hours before the dinner. Exact times will be announced at the beginning of the conference.

#### Companions program

Heidelberg with its old castle has been praised over centuries for numerous reasons - maybe after your stay here you will have discovered your own reason for praising it.

#### *Monday morning*

There is probably no better way to get a first impression of a town than by a guided tour. So there will be one. It will follow the narrow paths through the Old Town of Heidelberg and will give information about various historical sites - the University Library with a fine collection of medieval books and songs, the Gothic Church of the Holy Ghost, the Student Prison, the Old Castle just to name a few. But there will also be seen some surprising little details like picturesque restored inner courtyards, here and there a house-madonna and some hidden town palaces. All this in mind, together with an impressive view onto the Old Bridge over the Neckar and the famous Way of Philosophers on the other side of the river, you might probably get enough inspiration to go on your own tour on one of the following days.

Springtime in Heidelberg with flowery slopes everywhere seems to be ideal for excursions into the neighbouring towns - Speyer, Schwetzingen, Weinheim.

#### *Tuesday whole day*

There will be a bus tour to the Cathedral of Speyer which can be regarded as the most important medieval architectural monument in Germany. In its crypta there are buried 8 German emperors and kings. On the way back you will be rewarded by a light lunch in Schwetzingen - remember the asparagus season. From here

you just follow the enticing fragrance of lilacs which will lead you right into the impressive park of the Schwetzingen Castle. The whole concept of the late Baroque park, considered to be Germany's most beautiful one, goes back to the initiative of the count elector Karl Theodor (1743-1799) who combined French, English and Oriental elements to a harmonious unity.

#### *Thursday morning*

Weinheim - a medieval town north of Heidelberg - is crowned by the ruins of an old castle. But don't worry, you don't have to climb up. There will rather be a pleasant walk through a magnificent park with exotic trees (sequoia, cedar of Lebanon, old gingho ....), beautifully embedded in the landscape around a castle dating from the days of the count elector. After a short coffee break you will visit a beautiful little botanical garden, rather unknown, yet unique in its composition of colours, as if invisibly led by the hand of a painter. The garden belongs to the Carl Freudenberg Stiftung. At the end of the tour, lunch could be arranged in Weinheim if you wish so.

If you are interested to join one or several of these tours, use the enclosed form to sign-up and hand it in at registration.

#### Excursion to GSI/Darmstadt

Given sufficient interest, an excursion to GSI Darmstadt could be arranged on Friday afternoon, i.e. after the official closing of the conference. The visit would include a survey talk on GSI, and a guided tour to the accelerators and to the major experimental facilities. Besides nuclear collisions up to 2 GeV/u, the research program at GSI includes the synthesis of the heaviest elements, nuclear structure far-off stability, atomic physics, plasma physics, biophysics (including cancer therapy) and material sciences. Conference participants interested in such an excursion should express this by electronic mail before the beginning of the conference.

#### Post-Conference-Tour

Given sufficient interest, a post-conference bus tour to the Pfalz could be arranged for conferees and their companions on Saturday, May 25, 1996. Apart from beautiful scenery, the tour would offer visits of some romantic towns and castles along the famous Weinstraße, wine- and champagne-tasting in a typical local winery, and food in a „Straußenwirtschaft“. It would start in Heidelberg at 10 a.m. and finish there around 11 p.m. The all-inclusive price would be DM 60,-. If you are interested, please cross the corresponding entry on the enclosed form; final arrangements would be done early during the conference week.

### Communications

There will be about 10 X-terminals within a special room of the conference center, allowing conference participants to remotely check their e-mail. Further computer luxury like working on data or transparencies, postscript printing etc. is not foreseen.

The Quark Matter 96 telephone numbers in Heidelberg during the conference will be identical to the ones printed on the conference announcements (+49-6159-71-2648 phone; -2991 fax). The hotel telephone numbers should be included in your hotel confirmation forms. Public phones are available within the conference center including variants for coins, German telephone cards and credit cards.

### WWW

All conference announcements, the scientific program and all reply forms are available on the World Wide Web under [www-url:http://qm96.gsi.de/welcome](http://qm96.gsi.de/welcome). Updates and informations later than this final announcement will also be posted on the web.

### Foreign currency exchange

There are numerous banks within walking distance from the conference center to exchange currencies, cash traveler cheques etc. Bank hours are from 8.30 a.m. to 4.00 p.m. except for Thursdays (6.00 p.m.). All banks but the one at the Heidelberg Hauptbahnhof are closed on Saturdays and Sundays. Automats to cash Eurocards or credit cards exist everywhere, many of them accessible around the clock.

### Acknowledgements

The Organizing Committee appreciates support for this conference from the European Community, the Deutsche Forschungsgemeinschaft, the State of Baden-Württemberg, the Heraeus-Stiftung, and the industrial companies Merck/Darmstadt, BASF/Ludwigshafen, Oxford Instruments/Wiesbaden.

The Organizing Committee has received support by the Conference Secretary H. Weitzel, as well as the Local Organizing Committee (S. Bass, G. Eisold, U. Faschingbauer, P. Glässel, K. Groß, K. Hildenbrand, G. Kaiser, T. Katzenmaier, J. Konopka, C. Krämer, J. Lantzsch, I. Lorenz, S. Lüttges, P. Malzacher, D. Nitsch, A. Pfeiffer, W. von Rueden, H. Sann, K. Schiebel, B. Schuster, H.G. Siebig, G. Siegert, A. Specht, B. Städtler, H. Weitzel, H. Wessels, H.C. Wurm, A. Zschau).