

Minutes of the QCD Meeting held on 28 May 1991

Note: See copies of transparencies shown for details.

0. Please note the enclosed announcement of the Wuhan Symposium on Multiparticle Dynamics. ALEPH participants are welcome.
1. R. Settles reviewed the status of QCD analyses. Drafts for papers exist for studies of Bose-Einstein condensation, intermittency in one dimension and multiplicity. Drafts are in preparation on triple gluon coupling and QCD coherence. See transparencies for status of other studies.
2. John Thompson gave the status of the $q\bar{q}\gamma$ analysis, which is a sensitive test of QCD Monte Carlo generators. The data disagrees with both JETSET 7.3 and DYMU3, but favour the former. ARIADNE is an interesting alternative and is still to be studied (it must be first tuned to the data of the QCD group). Using energy flow to isolate $q\bar{q}\gamma$ events gives data points that disagree with JETSET 7.3 at small y_{cut} values. More work on jet-finding, π^0/γ separation and understanding backgrounds is in progress.
3. Frank Steeg presented an update on the triple gluon coupling studies. After a careful study of systematic effects, the 4-jet rate as selected from the full data sample gives a clear agreement with QCD and disagreement with an Abelian theory.
4. Volker Raab showed the status of multi-dimensional intermittency studies. The variables used are rapidity, ϕ , and $\ln(p_T)$. He showed the effects of flattening the distributions in one and two dimension. The physics seems to be contained in the y, ϕ plane. Model studies show that the hard gluon plays an important role.
5. Yigang Xie showed the rapidity dependence of hadronic distributions. These results are described in detail in two ALEPH notes. KNO scaling is broadened when $|y| < 0.5 - 2.0$ is used. Cluster models tested at PETRA seem also to hold at LepI. The multiplicity distribution is slightly narrower than poisson-like. The forward-backward multiplicity correlation varies strongly with the size of the rapidity interval chosen, and is twice as large for unlike-sign particles as for like-sign.

XXI INTERNATIONAL SYMPOSIUM
ON MULTIPARTICLE DYNAMICS

W u h a n , C h i n a

S e p t e m b e r 2 3 - 2 7 , 1 9 9 1

REGISTRATION FORM

Mr, Ms First Name

Birth date Birth place

Nationality Passport number

Profession Occupation

Field of interest:.....

Are you involved in some collaboration: Yes ; Which one: No

Institution:.....

Phone:..... Telex:..... TeleFax:.....

Home address:.....

Phone:

Tentative date and place of arrival in China

Tentative date and place of departure from China

Date and duration of previous stay in China

If you wish to present a contribution, Please give a title here:

.....

**If You Are Interested in Attending the Symposium,
Please Send Back the Completed Form Before 15th of March, 1991.**

XXI INTERNATIONAL SYMPOSIUM

ON MULTIPARTICLE DYNAMICS

Wuhan, China

September 23-27, 1991

BULLETIN No. 1

I. PLACE AND DATE

The XXIth International Symposium on Multiparticle Dynamics will take place at Wuhan from Monday September 23 to Friday September 27, 1991. There will be in total 9 sessions. In the afternoon of Wednesday September 25 there will be an excursion to some scenic spots in Wuhan.

September 22, 1991 is the 15th day of the 8th month of the Chinese lunar calendar, which is a traditional festival in China — the *Moon Festival*. Participants of the symposium are invited in that evening to join in the celebration party in the Yellow-Crane Tower, which is one of the three most famous pavilions in China. The participants are encouraged to arrive at Wuhan before the evening of September 22, in order not to lose this nice opportunity. The registration desk is open in the afternoon of that day.

II. SCIENTIFIC PROGRAM

The scientific program will include presentations on :

- New Results From e^+e^- Collision Near the Z^0 Mass
- Hard Processes from Hadronic Colliders
- QCD in Multiparticle Processes
- Soft Processes — Multiplicity Distributions and Correlations
- Intermittency and Fractal (Experiments and theories)
- Polarization Phenomena in High Energy Collisions
- Proton-Nucleus, Nucleus-Nucleus Collisions and Quark Matter Physics
- Cosmic Ray and Neutrino Physics

III. CONTRIBUTIONS

The abstracts of contributed papers must be sent to L. S. Liu in Wuhan before 15th of July 1991. As the time for formal presentations is limited, the Organization Committee is responsible to making some choice. However, there will be plenty of time for both organized and private discussions. All the participants are expected to play an active role during the entire symposium.

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Note: In sending TeleFax, please type our address in front of the text.

IV. ACCOMODATIONS

The full cost — for meals, lodgings, registration fee and a copy of proceedings will amount to US\$450 (double occupancy). Some single rooms will be available at an additional cost of US\$120.

The costs for accompanying members are:

US\$350 for an adult;

US\$200 for a child.

Payment of the conference fees will be payable in cash upon registration on Sunday September 22. Travelling checks are also acceptable.

V. TRANSPORTATION

Wuhan is located at the center of China and is convenient in communication. There are both trains and airlights from Beijing and Guangzhou to Wuhan everyday. There are also direct flight from HongKong to Wuhan on Monday, Tuesday, Thursday and Saturday.

VI. SOCIAL PROGRAM (preliminary)

As mentioned in Point I all the participants and their accompanying persons are invited to join in the celebration party of the Moon Festival, which will take place in the Yellow-Crane Tower in the evening of September 22, 1991.

The excursion in September 25 afternoon will include the following scenic spots:

The Budest temple — Guiyuan Temple;

The Taoism temple — Changchun Guan;

The Great Bridge on the Yangtze River;

The Hubei Museum — Ancient musical instruments exhibition.

All the expenses of the above program are included in the conference fees.

More informations will be given in Bulletin N° 2.