

SEMINARS

SEMINAIRES

MONDAY 13 NOVEMBER

WORKSHOP ON THE SC INTERMEDIATE ENERGY HEAVY-ION PHYSICS

ISR Auditorium - Bldg 30 - 7th floor

Programme :

09.00 - 09.15

Introductory remarks (R. Klapisch)

09.15 - 10.00

The projected 86 MeV/amu ^{12}C beam at the CERN SC (B. Allardyce)

10.00 - 10.30

Possible uses of the Omicron spectrometer with the 86 MeV/amu ^{12}C beam (T. Bressani)

Break

11.00 - 11.30

Predictions for the collective production of pions in heavy ion reactions (E. Aslanides)

Lunch

14.00 - 14.30

Theoretical concepts for relativistic heavy ion induced reactions (J. Gosset)

14.30 - 15.00

Light particle emission in 100 MeV/amu heavy ion reactions (J. Bondorf)

Break

15.30 - 16.00

Proposal for the study of light particle emission with the 86 MeV/amu ^{12}C beam (B. Jacobsson)

16.00 - 16.30

Proposal for the study of isotopic and kinetic energy distribution of projectile like fragments with the 86 MeV/amu ^{12}C beam (M. Buenerd)

16.30 - 17.30

Proposal for a study of ^{12}C -induced reactions at energies up to 86 MeV/amu (O.B. Nielsen)

Concluding remarks (P.G. Hansen)

TUESDAY 14 NOVEMBER

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium *

"Antiproton annihilation"

by H. Muirhead/Dept. of Physics, Liverpool University

Abstract : The status of the subject will be reviewed. The rôle of strange particles in attempts to understand the annihilation mechanism at the quark level will be stressed. Some comments on the relation of annihilation to baryonium will also be made.

(*) Note : Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 16.00 hrs to meet the speaker and for informal discussions. Tea and coffee will be provided.

WEDNESDAY 15 NOVEMBER

PROTON SYNCHROTRON AND SYNCHRO-CYCLOTRON COMMITTEE - Second meeting

at 09.00 hrs - Council Room

OPEN SESSION

1. Introductory remarks by L. Van Hove

2. Status reports on the following experiments :

SC 68: muonic chemistry in condensed matter (Parma University) PSCC/78-21/M10, presented by C. Bucci.

SC 70: studies of fission of heavy nuclei induced by muons (CERN-Oslo) presented by B. Jonson

PS 158: $\bar{p}$ X-ray studies on isotopically pure targets (Basel-Karlsruhe-Stockholm) presented by L. Tauscher.

PS 161: search for strongly bound states of the pp , pd and $\bar{p}(NN\dots)$ states (Basel-Karlsruhe-Stockholm-Strasbourg-Thessaloniki) presented by L. Tauscher.

PS 159: strange dibaryon systems (Rome-Saclay-Vanderbilt) presented by J.P. Brion.

3. Report on low energy $\bar{p}p$ by E. Lohrmann.

4. Summary of conclusions of heavy-ion workshop by H. Nifenecker.

5. Proposal: to study the particle production in 86 MeV/N ^{12}C induced heavy-ion reactions (CERN-Copenhagen-Grenoble-Lund) PSCC/78-8/P1, presented by H. Nifenecker.

6. Proposal: formation and interaction of muonium in insulators and semiconductors (Parma University) PSCC/78-22/P4; 78-23/S4, presented by C. Bucci.

at 14.30 hrs - 6th floor Conference Room
Administration building
CLOSED SESSION

TECHNICAL PRESENTATION

from 09.30 to 16.30 hrs - Room 2-027
Bldg 73, H/G-1 CERN map

S.R.A. is a Swedish communications company offering Tele-Display Systems with or without Monitors. SRA SEMIGRAF 240 Colour Display System has been in use for the past two years in Research Institutes, Industry, Universities, etc. which include the Mimic Diagram and Graphical capability in addition to Alphanumerics. A Senior Technical member of the S.R.A. staff will be in attendance to discuss potential requirements.

FUNGUS is the hardware outlet of SYSTIME (UK). They manufacture a wide range of computer systems for data-processing and they are all based on the DEC range of PDP 11 central processors, but the memories, interfaces and most of the peripherals are made by them in the UK. Their main interest is to offer add-on memories, interfaces etc. which are 100% compatible with PDP-11's.

Spare parts, replacement boards and service for the products of both these firms will be available from the representative, HIGH ENERGY & NUCLEAR EQUIPMENT S.A., Grand-Saconnex.

Language : English

Enquiries : M. Diraison/FI/4585

THEORETICAL SEMINAR

at 14.00 hrs - TH Conference Room

"Can we predict the longitudinal and transverse structure of quark and gluon jets?"

by G. Veneziano/CERN

Abstract : Improved QCD perturbation theory leads to a simple and intuitive method for resolving the longitudinal and transverse structure of jets. Quark and gluon jets are contrasted. A new kind of scaling, found for quantities measured with calorimeter detectors, provides a new method for determining anomalous dimensions.

CERN COLLOQUIUM

at 16.30 hrs - Auditorium *

"Some recent progress in non-equilibrium statistical mechanics"

by I. Prigogine/Brussels
(1977 Nobel prize for chemistry)

Abstract : It will be shown that the requirement of the second law of thermodynamics (the existence of an attractor which varies monotonously in time) leads to the definition of a microscopic entropy operator. This leads to the generalization of the concept of observable in classical and quantum mechanics, to new uncertainty relations and to new representations of the equations of motion. Specific examples such as the 'baker transformation' will be discussed.

Professor Prigogine will give another lecture on the same day at 20.30 hrs on 'Les deux cultures aujourd'hui' - Auditoire A, Section de Physique, Université de Genève, 24 quai Ernest Ansermet, Genève.

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THURSDAY 16 NOVEMBER

ESO ASTROPHYSICS SEMINAR

at 14.00 hrs - DD Conference Room
Bldg 31 - 3rd floor

"Dynamics of early type galaxies"

by F. Bertola/Padova

FRIDAY 17 NOVEMBER

PRESENTATION TECHNIQUE

de 09h00 à 16h30 - Salle n° 1-007
Bât 17, F-6 plan CERN

REPROX Machines de Bureau SA (CH) propose la démonstration de matériel de photocopie :
OMEGA 2000 et 3000 (D) échelle 1/1 ou 1/2 -
SCM 105 (USA) - MC 20 (J).

Langue : français

Renseignements : M. Diraison/FI/4585

VENDREDI 17 NOVEMBRE

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POUR INFORMATION

/ FOR INFORMATION

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SEMINAIRE DU LAPP

à 10h30 - Amphithéâtre du LAPP

Laboratoire d'Annecy-le-Vieux de Physique des Particules - chemin Bellevue, Annecy-le-Vieux, (Haute-Savoie, France)

"La physique $p\bar{p}$ à énergies basses et intermédiaires et les grands espoirs permis par le cooling"

par G. Bassompierre et M. Schneegans/LAPP

Résumé : Quelques résultats de l'expérience S135 ($p\bar{p}$ au repos) seront décrits et illustreront la situation actuelle de la physique $p\bar{p}$ à basse énergie. Les coolings stochastiques et par électrons et les grandes espérances qu'ils suscitent dans le domaine de la physique $p\bar{p}$ à énergies basses et intermédiaires seront discutés ainsi que la situation actuelle du projet LEAR.

Renseignements complémentaires auprès de H. Pessard/
CERN-EP, Tél. 6526 ou Laboratoire d'Annecy-le-Vieux,
Tél. (023) 23.32.45, int. 327.

MONDAY 20 NOVEMBER

ISR SEMINAR

at 14.30 hrs - ISR Auditorium -
top floor of building 30

"Reports on the ICFA Meeting, the polarization symposium and progress at Cornell"

by E. Keil and B.W. Montague/ISR

TUESDAY 21 NOVEMBER

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"Measurement of muon pairs at the ISR"

by S. Ting/MIT and CERN

THURSDAY 23 NOVEMBER

CERN COMPUTER SEMINAR

at 14.00 hrs - Council Chamber

"On the numerical computation of stiff differential equations"

by G. Wanner/Faculty of Science, University of Geneva

CERN ENERGY SEMINAR - General Level

at 16.30 hrs - Auditorium

"Breeding alternatives or how to replace fast reactors with particle accelerators"

by J.D. Davies/CERN