

SEMINARS SEMINAIRES

TUESDAY 19 SEPTEMBER

CERN PARTICLE PHYSICS SEMINAR

at 16.00 hrs - Auditorium *

"Production of massive muon pairs by pions and protons at Fermilab"

by K. McDonald/Princeton University

Abstract : The reaction $\pi^- p \rightarrow \mu\mu X$ proceeds at a rate 300 times that of $pp \rightarrow \mu\mu X$ at $M_{\mu\mu} = 10 \text{ GeV}/c^2$, at Fermilab energies.

We present evidence for the electromagnetic origin of continuum muon pairs with mass above the J/ψ , and extract quark structure functions of the pion and nucleon via the Drell-Yan formalism.

(*) Note : Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) to meet the speaker and for informal discussions at 15.30 hrs. Tea and coffee will be provided.

WEDNESDAY 20 SEPTEMBER

DD SEMINAR

at 16.00 hrs - DD Conference Room
bldg 31, 3rd floor

"The MODCOMP-IBM-CERNET Connection"

by J.A. Richter/CERN

Abstract : The fast MODCOMP-IBM link incorporated in CERNET has been implemented using a micro-programmed MODCOMP-IBM channel interface. The synchronization between the involved processors is interrupt-based on the MODCOMP side (Data Interrupt, Service Interrupt) and by separate presentation of channel-end and device-end in response to the EXCP calls on the IBM 370/168 side. The MODCOMP-IBM communication protocol presents no restrictions to the Network as a whole. Its implementation involved hardware design changes as well as major software modifications in the MODCOMP-delivered products. The major principles in the design and operation of the connection will be given.

THURSDAY 21 SEPTEMBER

CERN COMPUTER SEMINAR

at 14.00 hrs - Council Chamber

"Some new results in pattern recognition"

by Dr. M. Nadler/Consulting Engineer,
La Celle Saint-Cloud

Abstract : A number of structures for multivariate, multiclass hierarchical pattern recognition systems are examined. A strategy is presented for obtaining sub-optimal results in large-scale problems. Relationships to other techniques such as factor analysis are discussed.

ESO ASTROPHYSICS SEMINAR

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

"The velocity dispersion in extra galactic HII regions"

by John E. Dyson/Max-Planck-Institut für
Physik u. Astrophysik, München

Abstract : The gas velocities in giant extra galactic HII regions are significantly supersonic. It is suggested that they are caused by stellar winds from stars in these regions interacting with interstellar gas. Simple models suggest that the stars with winds must be clumped spatially and further that extensive star formation occurred throughout a given region in a time scale $\sim 10^5 - 10^6 \text{ yr}$.

THEORETICAL SEMINAR

at 14.00 hrs - TH Conference Room

"Exact results for the scattering of three charged particles"

by W. Thirring/Vienna University

Abstract : Bounds for the scattering length of the $p\bar{u}e^-$ and pe^-e^- system are discussed. Using the recent results on the number of bound states of these systems one can deduce inequalities for the scattering amplitude.

**** Please note the change of day ****

MONDAY 25 SEPTEMBER

CERN NUCLEAR PHYSICS SEMINAR

at 11.00 hrs - TH Conference Room

"New results in hypernuclear spectroscopy"

by T.J. Ketel/Heidelberg

*** Please note that this seminar, originally announced for 18 September, has now been postponed for a week.***

TUESDAY 26 SEPTEMBER

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"Neutral currents : five years after"

by L.M. Sehgal/III. Physik. Institut A,
Aachen

THURSDAY 28 SEPTEMBER

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"Measurement of $\pi^- p$ elastic scattering in the Coulomb interference region at high energies"

by A.A. Vorobiev/Leningrad Nuclear Physics
Institute, Gatchina

LEP SUMMER STUDY

The LEP Summer Study, organized under the joint sponsorship of ECFA and CERN, will take place from 10 to 20 September at the Les Houches Summer School of Theoretical Physics and at CERN on 21 and 22 September. It will assemble 80 participants. The series of Summary talks presented below form the programme of the two-day open session at CERN:

	Morning 9.00 - 12.30	Afternoon 14.00 - 17.30
<u>Thursday</u> 21 September Auditorium	Chairman: <u>M. Vivargent</u> e^+e^- Physics beyond PETRA energies <u>Ch. Llewellyn-Smith</u> Experimentation at LEP: Weak-electromagnetic interference and 2γ processes <u>M. Davier</u>	Chairman: <u>M. Vivargent</u> Machine parameters and characteristic features <u>J. Le Duff</u> Design of interaction regions <u>P. Strolin</u>
<u>Friday</u> 22 September Auditorium	Chairman: <u>A. Salam</u> Experimentation at LEP: Jets and search for new particles <u>K. Winter</u> Polarization at LEP energies <u>P. Darriulat</u>	Chairman: <u>A. Salam</u> Steering the LEP project <u>J.B. Adams</u> Two scenarios for physics at LEP <u>S.L. Glashow</u>

Each talk will be followed by a 30-minute discussion.

"LA GRANDE-BRETAGNE AU CERN"

Du 9 au 13 octobre 1978
Hall du Bâtiment de
l'Administration - 1er étage

Vingt-trois firmes britanniques présenteront le dernier cri de leur technologie à l'exposition "La Grande-Bretagne au CERN". Cette exposition est organisée par la BEAMA (The British Electrical and Allied Manufacturers' Association) au nom du Groupe des associations de fabricants britanniques d'instruments, d'appareils de commande et régulation et d'automation (Group of Associations of Manufacturers of British Instrumentation, Control and Automation (GAMBICA) en association avec le Conseil britannique du commerce extérieur (British Overseas Trade Board - BOTB).

Exposants : voir liste ci-dessous.

Programme détaillé dans le Bulletin CERN No 40 et 41

'BRITAIN AT CERN'

9th - 13th October 1978
Administration Building
Entrance - 1st floor

Twenty three British firms will be presenting their latest technology at the 'Britain at CERN' exhibition. The exhibition is being organized by the British Electrical and Allied Manufacturers' Association (BEAMA) on behalf of the Group of Associations of Manufacturers of British Instrumentation, Control and Automation (GAMBICA) under joint venture arrangements with the British Overseas Trade Board (BOTB).

Exhibitors :

AEI SEMICONDUCTORS LIMITED	IMHOF BEDCO STANDARD PRODUCTS LTD
BECKMAN INSTRUMENTS LIMITED	MICRO MEASUREMENTS
BELIX COMPANY LIMITED	MUIRHEAD-VACTRIC COMPONENTS
BENNEY ELECTRONICS LIMITED	NUCLEAR ENTERPRISES LIMITED
BRENTFORD ELECTRIC LIMITED	OXFORD INSTRUMENTS
COUNTANT ELECTRONICS LIMITED	PLESSEY CONTROLS
DATA LABORATORIES LIMITED	RACAL DANA GROUP SERVICES LIMITED
EDWARDS HIGH VACUUM	SE LABS (EMI) LIMITED
EMI ELECTRON TUBES	SOLARTRON ELECTRONIC GROUP LIMITED
EXACTA CIRCUITS LIMITED	UNION CARBIDE (UK) LIMITED
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Detailed programme in CERN Weekly No 40 and 41

Renseignements :
M. Diraison/FI/4585