



Rutherford
Laboratory

R(12), NDT(60,3), ISW(3500), ANGLE(60), YINT(60), DUMMY(84),
(6,3), NACHT(48), XCEN(12), YCFN(12), ARS(12), CH(12), AR
MMON/CFID/MFX(20,3), MEY(20,3), INDX(20,3), NEX(3), NID(3), I
B(2,20,3), NX(100,4), NY(100,4), XN(2), YN(8), IR(100,2), IDX
DY(100,2), JDX(4), JDY(4), IHS(4), IOV(2), IUN(2), IDE
CF(16), IFS, NFS, FX, FY, JK, PIC, KPIC, NCOUNT, NBIN, MA
AXN, CTA, CTB, MX, MY, JA, JB, JC, JD, JE, JF, XF(20,3), YF
MMON/CJACK/NSY(20,30), NMS(20), NDR(20), NSR(20), X(16), Y(16)
(20), BX(20), NST1(20), NST2(20), INER(20), ... 60

17-31 JULY 1972

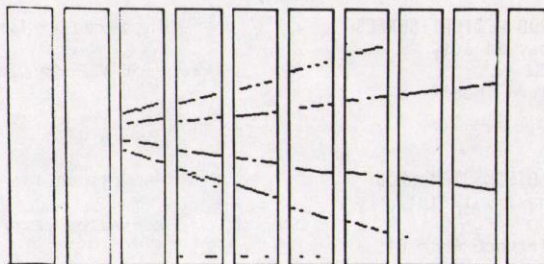
25

bulletin

OMEGA MAGNET-CERN

The photograph shows particle tracks through a bank of spark chambers mounted in the OMEGA magnet at CERN. The trajectories were displayed by computer from information collected by six television cameras mounted on top of the magnet assembly. The cameras, which use lead oxide surfaced camera tubes, were designed and built in the Rutherford Lab together with all the electronic drive and control equipment.

OMEGA ON-LINE DISPLAY



FAST LAMBDA EXPERIMENT

SECOND RUN - NO FIELD

TRAINING CONCESSIONS 1972 - 73

Employees of the Rutherford and Atlas Laboratories may now apply for training concessions for courses at local Technical Colleges and application forms for this purpose are available from Local Admin Officers and from the Training Section, Building R20. College prospectuses will be distributed to Local Admin Offices as soon as they are available and they can also be seen in the Library and the Training Section.

It would be appreciated if all completed and countersigned applications could be in the hands of the Training Officer not later than Wednesday 16 August. If exam results are still outstanding by this date, a conditional concession will be given. Employees seeking advice on training matters should make an appointment on Ext 555 to see the Training Officer, Mr T F Gubbins.

Enrolment details will be given in a later issue.

FILM BADGE NOTICE

It is period 8. Colour strip GREEN for $\beta\gamma$ films and fast neutron packs. Please check that you are wearing the correct dosimeters and that all old ones are returned. If for any reason people no longer wish to receive dosimeters please inform Mrs J Coates, R20, Ext 430.

MISSING EQUIPMENT

Atlas Chipping Hammer Serial No 876260 missing from Building R56 Store. Anyone knowing the whereabouts of this item please inform Mr E J D Newbold R20 Ext 570.

6 point Potentiometric Recorder - Kelvin Hughes Model HPR/A6 Serial No PI083, Loan Pool No 1287. Anyone with information on the present whereabouts of this instrument is asked to contact Mr V A Thorp Ext 382.

Box containing nickel leaks missing from Building R7 Store. Anyone knowing the whereabouts of this item please contact Mr R G Fowler, Building R25 Ext 388.

FOUND

Loose change has been found in the Restaurant/Coffee Lounge area Building R22. Enquiries should be made to Mr D Williams, Personnel Section, Building R20, Ext 495.

Car key in the R38 area. Enquiries should be made to Mr D Williams.

CERN SAFETY CODE

A copy of the CERN safety code is now available in the Library R20. The CERN Head of General Safety, A H Petersen, asks that visiting team leaders consult the safety code and his section to ensure that the equipment conforms to safety requirements.

INTERNAL EVENTS

NIMROD LECTURE SERIES

Monday 17 July
11.30
Lecture Theatre

Correlations in Inclusive Reactions

Dr K Zalewski/Cracow

300 GeV SEMINAR

Monday 17 July
2.30
Conference Room RI

A Spectrometer for the Study of Inelastic Processes

Dr C J S Damerell/RHEL

NIMROD LECTURE SERIES

Monday 24 July
11.30
Lecture Theatre

In Stradivarius's Footsteps

Prof W F Fry/University of Wisconsin

HEP DISCUSSION GROUP

Wednesday 19 July
11.00
Conference Room RI

Reports on the Zakopane Multiparticle Conference

Ken Paler (Exp), Hannu Meittinen and/or Dick Roberts (Theory)

HEP DISCUSSION GROUP

Wednesday 26 July
11.00
Conference Room RI

Models Saturating the Froissart Bound

A Schwimmer/Weizmann Inst of Science, Israel

NIMROD SCHEDULE

CYCLE 9 18 7 72 - 8 8 72

MACHINE PHYSICS

HIGH ENERGY PHYSICS

<u>Team</u>	<u>Beam</u>	<u>Experiment</u>	<u>State</u>
Birmingham University RHEL	K12A	K^+n Elastic Scattering and $K^+\eta$ Charge Exchange from 0.45-0.95 GeV/c	Data
Cambridge University RHEL	K13C	Associated Production Cross Sections	Data
Imperial College Southampton University	π^7	Studies of η ω and A_2	Data
Surrey University Birmingham University RHEL	π^{10}	Total Cross-Sections for Pions on Light Nuclei	Data
RHEL/UCL/Berkeley/ Torino	K9	4 GeV/c π^+p interactions in track sensitive target	Data
Glasgow University RHEL	π^9, N_4	Polarisation Measurements in π^-p Charge Exchange	Parasitic
Bristol University Southampton University RHEL	K15	K^+p and π^+p Differential Cross-Sections	Parasitic

OVERSEAS VISITS

Dr N D West, Messrs A R Mortimer and C W Planner to USA 15 - 22 July.
 Dr M H Vaughan to Universität-Frier-Kaiserslautern, 16 - 29 July to attend 1972 Summer Institute on Theoretical Physics. Mr G Stapleton to CERN, 19 - 21 July, for discussion with members of magnet design group. Mr J Burren to CERN, 20 July - 10 August, for discussions with members of DD Division about computing and bubble chamber data analysis. Messrs N M King and M H R Donald to CERN, 23 - 25 July to attend meeting of 300 GeV Theoretical Study Group. Mr P M Girard 'International School of Theory and Applications of Computers'. Mr P J Hemmings to Erice, 28 July - 14 August to attend 'International School of Theory and Applications of Computers'.

EXTERNAL EVENTS

DEPARTMENT OF ASTROPHYSICS* SEMINAR

Thursday 27 July
 11.30
 South Parks Road Oxford

On Spherically Symmetrical Accretion Flows

Prof N L Balazs/Stony Brook

EUROPEAN PHYSICAL SOCIETY 2ND GENERAL CONFERENCE 1972

This event will take place in Wiesbaden, Federal Republic of Germany, from 3 to 6 October 1972. The theme is "Trends in Physics". The programme includes the following plenary lectures

Polarized Neutrons and Nuclei: Nuclear Pseudomagnetism	<i>A Abragam (Paris)</i>
Fusion	<i>L A Artsimovich (Moscow)</i>
Atoms Dressed by Photons	<i>C Cohen-Tanoudji (Paris)</i>
Lasers and the Atmospheric Sciences	<i>G Fiocco (Frascati-Rome)</i>
Origin of Biological Information	<i>M Eigen (Göttingen)</i>
Non-linear Optics and Short Light Pulses	<i>W Kaiser (Munich)</i>
Origin of the Universe	<i>W Kundt (Hamburg)</i>
Chemical Lasers and Chemical Reaction Induced by Lasers	<i>A Oraevski (Moscow)</i>
Physics and Economy	<i>J Tinbergen (The Hague)</i>
Physical Aspects of Displays	<i>S van Houten (Eindhoven)</i>
Recent Developments in High Energy Physics and others	<i>L van Hove (Geneva)</i>

There will also be sessions organised by the specialised Divisions of the EPS, and an associated exhibition by manufacturers of scientific equipment. Further details are given in Europhysics News (January/February 1972, pp 1 - 2; March 1972 pp 4 - 5; May 1972 p11). Registration forms may be obtained from the Institute of Physics, 47 Belgrave Square, London SW1 (01-235-6111). Registration deadline is 31 August.

RUTHERFORD LABORATORY BULLETIN

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Deadline
for
Insertions

GENERAL & SOCIAL NEWS
Tuesday 1600

INTERNAL & EXTERNAL EVENTS
Wednesday 1200

Room 40 Building R20
Rutherford Laboratory
Chilton Didcot Berks
Abingdon 1900 Ext 6114

SOCIAL NEWS

FAREWELL TO COLLEAGUES

Bill Rouse receiving a retirement present from Mr G H Venn, Deputy Division Head of Nimrod.

Bill retired on 30 June after 5 years service at the Laboratory with the SME Group of Nimrod (R2 Mech Workshops). His many friends contributed to a 'Teasmade' present. Bill, a keen angler, will be putting the present into constant use in his 'dawn' endeavours to land a "Big One". We wish Bill a long and happy retirement.



Bill Parmenter the Senior Clerk of Works in the Building Section, will be retiring on 16 July. There will be a presentation and farewell taking place at 1030 am on Friday 14 July in the Central Conference Room Building R1. All those who remember him from the 14 years at the Rutherford Laboratory and the previous 12 years at AERE will be welcome to see him off.

CHRISTIAN FELLOWSHIP

- Friday 21 July. The Minister of All Saints Methodist Church, Abingdon, the Rev R Berry will be visiting the Fellowship at 1230 pm in the R12 Conference Room. All are invited to come and hear him speak on the subject entitled "Amazing Grace".
- Friday 28 July. Meryck Wyard will be leading a Bible Study on Chapter 10 of the 2nd Book of Corinthians. The meeting will commence at 1230 pm in R12 Conference Room and all are invited to come along.

FOLK CLUB

The FOLK CLUB, in association with the Rutherford and Atlas Recreational Society, is held every Friday in R22 Coffee Lounge at 8pm. Licenced Bar. Details can be obtained from Stephanie Hannan, Ext 6229 and Ann Bishop Ext 6622.

- Friday 14 July - The Fantastic Rosemary Hardman - admission 25p
Friday 21 July - Rod Garfield and Tony Brummel-Smith - admission 20p
Friday 28 July - Mike Absolom