



Rutherford
Laboratory

R(12), NDT(60,3), ISW(3500), ANGLE(60), YINT(60), DUMMY(R4),
(6,3), IACF(12), CF(12), CHA(2), AR
MMON/CFID/MFX(20,3), MFY(20,3), NFDX(10,3), NFX(3), NFD(3), I
B(2,20,3), NX(100,4), NY(100,4), XN(2), YN(8), IB(100,3), IX(1
DY(100,2), JDX(4), JDY(4), IHS(4), IOV(2), IUN(2), ID(2), DE
CF(16), IFS, NFS, FX, FY, JK, PIC, KPIC, NCOUNT, NBIN, MA(1), UN
AXN, CTA, CTB, MX, MY, JA, JB, JC, JD, JE, JF, XF(20,3), YF
MMON/CJACK/NSY(20,30), NMS(20), NDR(20), NST(20), AA(6), YA
(20), BX(20), NST1(20), NST2(20), INER(20), AG(20,30), AN(60)

27 November - 4 December 1972

bulletin

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NUCLEAR PHYSICS BOARD VISIT ON MONDAY 20 NOVEMBER

Mr I A Learmouth, Head of Nuclear Physics Division,
London Office, on right and Mr J H Major, Dept of
Trade & Industry, centre, in the central computer room



Professor A B Clegg, Dept of Physics, Lancaster
University, on left, views part of the AC4 magnet

Professor L L Green, Dept of Physics, Liverpool
University, on right, inspecting the nuclear physics
apparatus display in R12



INTERNAL EVENTS

NIMROD LECTURE SERIES

Monday 27 November
11.30
Lecture Theatre

Small Angle Elastic Scattering of High Energy Particles from Nuclei

Professor J Kirz/Stony Brook

HEP DISCUSSION GROUP

Wednesday 29 November
11.00
Conference Room, Building R1

Amplitude Analysis of p Production

Dr Penny G Estabrooks/CERN

FILM SHOW

Wednesday 29 November
13.15
Thursday 30 November
12.40
Lecture Theatre

The Friendship File - a 20 minute colour film

This film illustrates the work of the Civil Service Benevolent Fund (CSBF) and is being shown in conjunction with the special 'Raise a Roof' appeal which is being held at the Laboratory on the same two days, 29 and 30 November. Miss Prosser, the local CSBF representative will be in the Lecture Theatre to answer any questions after the second showing of the film on Thursday 30 November.

METRICATION TRAINING

Wednesday 29 November
15.30
Lecture Theatre

The fourth showing of the introductory session on metrication

Full details were given in Bulletin No 37

SPECIAL LECTURE

Thursday 30 November
14.30
Lecture Theatre

The Potential of Negative π -Meson Beams for Radiotherapy:

The Physical Aspects - *by Professor Roy Ellis/The General Infirmary, Leeds*
The Medical Aspects - *by Dr Roger Berry/Churchill Hospital, Oxford*

In view of the programme of biological experiments carried out on the π -II beam, and plans for future development, this should be of particular interest.

SEMINAR IN COMPUTING

Friday 1 December
11.00
Conference Room, Building R1

The Work of the HEP Data Handling Group

R Rosner, D Maden, J Hutton

NIMROD LECTURE SERIES

Monday 4 December
11.30
Lecture Theatre

Correlations in Inclusive Reactions

Dr M Jacob/CERN

NIMROD SCHEDULE

CYCLE 15 21 11 72 - 12 12 72

MACHINE PHYSICS

HIGH ENERGY PHYSICS

<u>Team</u>	<u>Beam</u>	<u>Experiment</u>	<u>State</u>
RHEL/UCL/Berkeley/ Torino	K9	4 GeV/c π^+p interactions using the track sensitive target	Data
Cambridge University/ RHEL	K13C	Associated Production Cross Sections	Data
Imperial College/ Southampton Univ	π^+7	Studies of η ω and A2	Data

Social News continued

XMAS DANCE - RUSH COMMON HOUSE

There will be a Christmas Dance at Rush Common House, Abingdon on 8 December, 8 pm - 1 am. Three groups, Capability Brown, Skint and Poot will provide the entertainment, there will also be a bar, open until 12.30 and food. Tickets at 60p from A Shave, R1, Ext 6642/6362 or I Bowden, R12, Ext 466.

EXTERNAL EVENTS

NUCLEAR STRUCTURE SEMINAR
Monday 27 November
14.30
Nuclear Physics Lab, Oxford

Heavy Ion Transfer Reactions - Some Theoretical Considerations
Dr D M Brink/Oxford

PHYSICS & GEOPHYSICS COLLOQUIUM
Monday 27 November
17.00
University of Bristol

Earth Strain Measurements and Global Tectonics
Dr R G Bilham/Dept of Geology and Geophysics, University of Cambridge

PHYSICS COLLOQUIUM
Monday 27 November
17.00
University of Reading

Forbidden Transitions in the Spectrum of the Solar Corona
Dr Carole Jordan/Astrophysics Research Unit, Culham

THEORETICAL PHYSICS SEMINAR
Wednesday 29 November
14.30
University of Manchester

Dispersion Relations in Atomic Scattering
Professor M R C McDowell/Royal Holloway College

ELEMENTARY PARTICLE PHYSICS SEMINAR
Thursday 30 November
14.15
Nuclear Physics Lab, Oxford

Inelastic Muon Scattering off Protons
Professor J Ballam/Imperial College, on sabbatical leave from SLAC

THEORETICAL ASTROPHYSICS SEMINAR
Thursday 30 November
14.30
Dept of Astrophysics, Oxford

A Survey of Numerical Computations in Hydrodynamics
Dr K Roberts/Culham

ELEMENTARY PARTICLE THEORY SEMINAR
Friday 1 December
14.15
Nuclear Physics Lab, Oxford

Deep Inelastic Scattering
Dr P V Landshoff/Cambridge

COLLOQUIUM
Friday 1 December
16.15
Clarendon Lab, Oxford

The Doomsday Syndrome
Mr J R Maddox/Macmillans, London

EVENTS AT AERE

THEORETICAL PHYSICS SEMINAR
Tuesday 28 November
14.00
Conference Room, Building 8.9

Compressibilities of Simple Metals
Professor H Young/University of East Anglia

NUCLEAR PHYSICS COLLOQUIUM
Thursday 30 November
15.30
Conference Room, Hangar 8

Some Applications of the Aldermaston Pulsed Reactor VIPER
Mr M H McTaggart/AWRE, Aldermaston
(This lecture was changed last week too late for publication)

RUTHERFORD LABORATORY BULLETIN

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Editor: H F NORRIS

Deadline
for
Insertions

GENERAL & SOCIAL NEWS
Tuesday 1600

INTERNAL & EXTERNAL EVENTS
Wednesday 1200

Room 42 Building R20
Rutherford Laboratory
Chilton Didcot Berks
Abingdon 1900 Ext 484

SRC BURSARIES FOR FULL-TIME STUDY AND SANDWICH COURSES

Attention is drawn to SRC Training Notice 8/72 which invites applications from staff of the Council for Awards to enable them to undertake full-time study or sandwich courses at a University, Polytechnic, etc, commencing in 1973. The nominal closing date for applications is 12 February 1973 but it should be noted that there is a provision for late applications in exceptional cases. Possible late applicants should inform the Training Officer as soon as possible, even if they may eventually withdraw. Further information and application forms from T F Gubbins, Building R20, Ext 266.

FOUND

An engagement ring has been found, enquiries to Mrs C Smith, Building R1, Ext 6603.

NATIONAL SAVING CERTIFICATES - SALARIES CYCLE ENDING 30 11 72

Certificates can be collected from the Cash Office, R20 from 1 December onwards. New members wishing to join the Scheme can obtain enrolment forms from the Cash Office. Forms must be returned not later than 5 December 1972.

FILM BADGE NOTICE

Period 13 commences on Monday 27 November. Colour Strip - YELLOW for 8y films and fast neutron packs. Please note that these dosimeters are to be worn until 1 January 1973. (5 week period). Six monthly TLD change for people with surnames beginning with W X Y Z.

MISSING EQUIPMENT

The following items of equipment have been reported missing:-

Plug-in unit 3A1, Ser No 4149 for Tektronic 560 Series Oscilloscope (Storage Scope)

Information on present whereabouts of this item to F R Jacob, Building R1, Ext 6255.

Avometer Model 8, Ser No 92627-269

Information on present whereabouts of this item to H Norton, Building R2, Ext 6601.

OVERSEAS VISITS

Dr J J Thresher, to CERN, 26 - 29 November, to attend ECFA Executive Committee Meeting. Dr D B Thomas & Dr R W Newport, to Karlsruhe, 27 - 28 November, to attend GESSS Working Party.

The Director, to CERN, 29 November - 1 December, to attend ECFA Meetings.

Dr G Manning, to CERN, 29 - 30 November, to attend ECFA Meeting.

SOCIAL NEWS

SEVEN-A-SIDE SOCCER CHALLENGE TROPHY

GROUP 'A'

TEAMS	P	W	L	D	F	A	Pts
AERE 351	5	4	0	1	13	4	9
R18	6	3	1	2	17	8	8
C A Div	6	3	2	1	8	5	7
AERE GO	6	2	2	2	15	14	6
Atlas	6	2	4	0	6	14	4
R9	4	1	3	0	6	9	2
Hall 3	5	0	3	2	5	15	2

GROUP 'B'

TEAMS	P	W	L	D	F	A	Pts
Trans	6	4	1	1	28	5	9
R25	6	4	1	1	17	6	9
AERE Admin	6	2	1	3	17	6	7
AERE 220	6	3	2	1	14	10	7
DO	6	3	2	1	16	14	7
Casuals	6	1	4	1	9	31	3
Stores	6	0	6	0	2	29	0

Group B have now completed their fixtures and the top four teams as shown go through to the quarter finals. The final positions in Group A will be decided during the current week and the successful top four teams will be given next week. The draw for the quarter finals will be made on Friday next at 13.00 in the Horse & Jockey - all are welcome.

CHRISTIAN FELLOWSHIP

All welcome to our monthly prayer meeting on 1 December, to be led by Ernie Newbold.

FOLK CLUB

Friday 24 November at 8 pm - Vin Garbett, plays guitar, whistle and mandolin.

RECORD SOCIETY

Tuesday 28 November, 12.40 pm, Lecture Theatre. Selections from 'The Mikado', by Gilbert and Sullivan. The great Martyn Green is in the cast.