
People and things

875 A. The interaction between protons and pellets was tested for the first time in April. Further tests are under way to optimize the system for WASA experiments, scheduled to start in the autumn of 1998.

Books received

Thermal Field Theory, by Michel Le Bellac, Cambridge University Press, ISBN 0 521 46040 9 (hbk) £45

This treatise in the series of Cambridge Monographs on Mathematical Physics covers thermal effects in relativistic thermal field theory, looking into the implications of quantum chromodynamics for collisions of high energy nuclear beams, and for astrophysics and cosmology.

Doing Physics - How Physicists Take Hold of the World, by Martin H. Krieger, Indiana University Press, ISBN 0 253 33123 4 (hbk) 0 253 20701 0 (pbk)

A useful explanation of the way physicists do physics and try to make sense of the world. With key physics arguments not always as transparent as they could be, such a primer provides a useful bridge.

ICTP medals

The prestigious Dirac Prize of the International Centre for Theoretical Physics (ICTP, Trieste, Italy) is awarded this year to Tullio Regge (Politecnico di Torino) and Martinus Veltman (University of Michigan).

Tullio Regge is honoured "for crucial contributions in theoretical and mathematical physics starting with his seminal investigation of the asymptotic behaviour of potential scattering processes through the analytic continuation of the angular momentum to the complex plane. This technique has found many applications in the study of differential equations while in the physics of the Strong Interactions, the so-called Regge trajectories have helped in the classification of particles and resonances by grouping together entities with different spin. The so-called Regge behaviour was, and still is, an important ingredient in the construction of String theories. In addition, Regge is also known for having introduced the first discretisation of space-time with a simple Einstein dynamics (the so-called Regge Calculus) and for its formulation of supergravity theories in the geometric language of differential forms".

Martinus Veltman is honoured "for his pioneering investigations on the renormalizability of gauge theories and consequently, his analysis of the sensitivity of radiative corrections to both the mass differences in fermion doublets and the Higgs particle mass. These calculations provided the basic prediction in the search for the top quark mass. Towards this goal, Veltman was one of the first to use the computer in Feynman diagram calculations. His software package for manipulations of alge-

braic symbols has been a privileged tool for a full generation of physicists".

Instituted in 1985, the Dirac Medals are awarded annually for contributions to theoretical physics and mathematics, the announcement traditionally being made on P.A.M. Dirac's birthday - 8 August. The Dirac Medals are not awarded to Nobel Prize or Wolf Foundation Prize winners.

Adolf Minten retires

This summer marked the formal retirement from CERN of Adolf Minten. A member of Wolfgang Paul's low energy but highly prolific group at Bonn in the 1950s, he joined CERN in 1962. After a sabbatical at SLAC during the momentous years of electron scattering experiments in 1966-67 he returned to CERN, where he was a pioneer of large electronic detectors, becoming leader, with Georges Charpak, of the Split Field Magnet group at the Intersecting Storage Rings. In 1976 he became the dynamic and popular leader of the newly formed Experimental Physics Facilities (EF) Division, remaining until 1984. After a second stay at SLAC he joined the Aleph collaboration at LEP in 1987.

Ron Newport retires

Recently retired is Ron Newport, Head of the UK Daresbury Laboratory. Graduating from Liverpool in 1955, he began a long career in bubble chamber work at CERN, the UK Rutherford Laboratory and at Berkeley. In the preparations for the experimental programme at CERN's SPS proton synchrotron, he led the design of the rapid cycling bubble chamber at the heart of the big European Hybrid Spectrometer.

invites applications for

**SENIOR RESEARCH POSITION in
Experimental Particle Physics at ATLAS**

The Council's intention in creating these positions is to contribute to the recruitment of researchers and to the renewal of research in Sweden. The programme is aimed primarily at scientists with a doctorate and several years of post-graduate research. The positions are held for three plus three years and are placed at appropriate university departments in Sweden to be chosen in consultation between the candidates, NFR and the universities. The universities decide on tenure. Duties can commence from July 1, 1997. The salary range will correspond to that of an assistant/associate professor (SEK 300 000-360 000 per year, i.e. USD 46 000-55 000 per year). A curriculum vitae including a list of publications, a short research plan plus a description of scientific achievements (max. 5 pages), and a maximum of 10 reprints of scientific papers should be appended. Other documents which the applicant wants to refer to could also be included. Four copies of the application and all appendixes and reprints should be submitted.

Applications should reach the Swedish Natural Science Research Council, Box 7142, S-103 87 Stockholm, Sweden, by December 1, 1996.

Further information can be obtained from Ms Natalie Lunin at the Secretariat of NFR, phone no +46 8 454 42 32, fax no +46 8 454 42 50.

**EXPERIMENTAL
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The Physics Department at the University of Utah is seeking highly qualified candidates for an assistant or associate professor tenure track position in experimental ultra high energy cosmic ray physics. We seek candidates with strong commitments to both teaching and research. Successful candidates will be expected to participate in the work of the High Resolution Fly's Eye Ultra High Energy Cosmic Ray observatory and allied efforts and to teach undergraduate and graduate courses in Physics.

Candidates should submit their curriculum vitae, list of publications and three letters of recommendation by March 15, 1997 to:

COSMIC RAY FACULTY RESEARCH COMMITTEE
Department of Physics
201 James Fletcher Bldg.
University of Utah
Salt Lake City, UT 84112

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UNIVERSITY OF
OXFORD

Department of Physics

Research Officer in Experimental Particle Physics

Applications are invited for the above post from experimental particle physicists, preferably with some years of postdoctoral experience in research. The Research Officer position is a fixed-term academic appointment with the same salary and conditions as a University Lecturer, but with a limited teaching load. Oxford has the largest particle physics group in the UK, with a wide-ranging and very active research programme. This includes the DELPHI experiment at LEP (CERN), the ZEUS experiment at HERA (DESY), the SOUDAN 2 and MINOS experiments (USA), the Sudbury Neutrino Observatory (SNO) project (Canada), the development of cryogenic detectors and the CRESST experiment (Gran Sasso), plus the development of the ATLAS and LHC-B experiments in high-energy physics.

The successful applicant would be expected to participate in the above programme and contribute to the teaching activities of the Department. Preference may be given to candidates wishing to participate in one of the new projects (MINOS, CRESST, ATLAS or LHC-B). An appointment will be made as soon as possible and would be for three years in the first instance, with the possibility of extension for a further two, on the University Lecturer scale (£15,154 - £28,215 p.a.). Further particulars, including details of duties and range of emoluments, may be obtained from the Deputy Administrator, Nuclear & Astrophysics Laboratory, Keble Road, Oxford OX1 3RH (E-mail: P.Dobbs1@physics.oxford.ac.uk).

Letters of application, supported by a full curriculum vitae, list of publications, a statement of research interests and teaching experience plus the names of three referees, should be sent to the Deputy Administrator, Mr P.F. Dobbs, at the above address to arrive no later than 15 November 1996. The referees should be asked to send references directly to Dr G. Myatt, acting Head of Particle & Nuclear Physics, at the same address to arrive by the closing date.

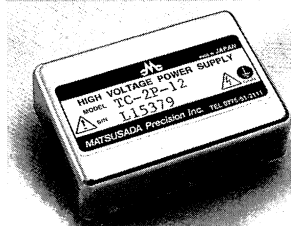
It is expected that the short-listed candidates will be interviewed in Oxford in December 1996. Applicants are asked to indicate an E-mail address, and a fax or telephone number where they can be contacted.

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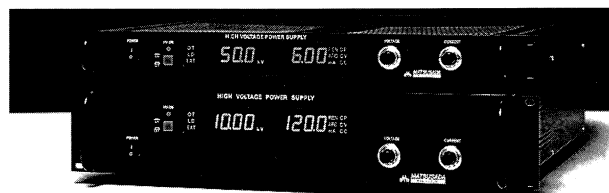


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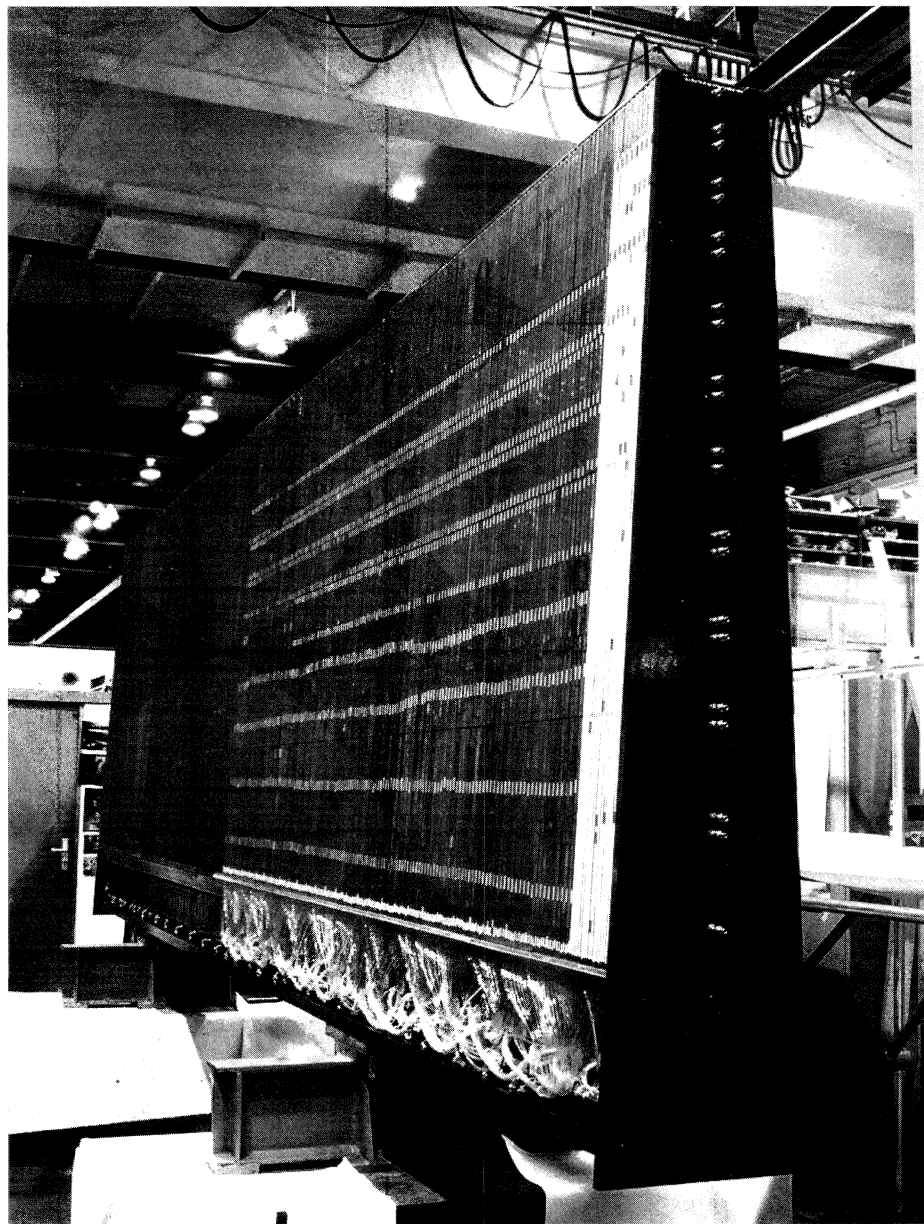
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First components are coming together for the huge 7,000-tonne ATLAS detector at CERN's future LHC proton-proton collider. Seen here is the first full-size prototype module of the 64 21-tonne azimuthal wedges for the central barrel of the ATLAS scintillating tile hadronic calorimeter. For these modules, components produced in several centres are assembled at the Joint Institute for Nuclear Research (JINR), Dubna, near Moscow. The 64 large modules will be complemented by 128 modules one-half the size for the outer barrels of the calorimeter, which will be assembled at IFAE Barcelona and at Argonne in the US. (Photo CERN 4.7.96/7)



In 1981 he turned to the design of a major new UK astronomy telescope, going on to senior positions in the UK Science and Engineering Research Council, and being appointed as Chairman of the European Synchrotron Radiation Facility Council in 1993. In 1994, he took over from Alan Leadbetter as Daresbury Laboratory Head.

Alexander Hocker 1912-1996

One of the main architects of the reconstruction of post-war German scientific research, Alexander Hocker, died on 7 August. As Deputy Director of the Deutsche Forschungsgemeinschaft in the early 1950s, he, with Werner Heisenberg, represented Germany in the early meetings which

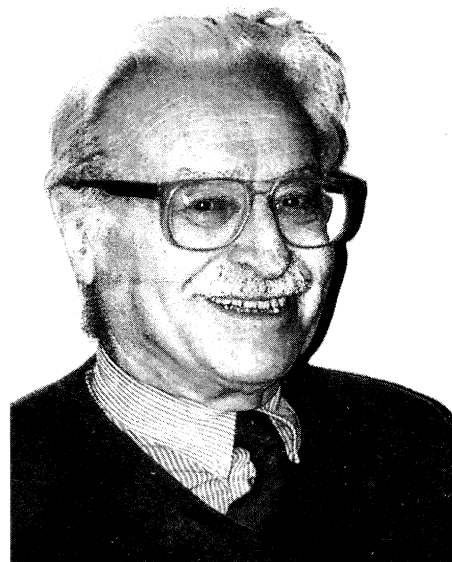
led to the establishment of CERN. As a staunch advocate of European collaboration, he played a vital role in ensuring Germany's participation in CERN. A long-time member of CERN Council, he also served as Chairman of CERN's Finance Committee in 1961. As well as his work for CERN, he was also influential in the establishment of major German research centres, including DESY and Garching. From 1961 he was Administrative Director of the Jülich laboratory, while from 1965-67 he was also President of the European Space Research Organization (ESRO).

Siegfried A. Wouthuysen 1916-1996

Distinguished Dutch theorist Siegfried A. Wouthuysen died on 9 July.

Born in Amsterdam, he moved with his family to Antwerp in Belgium and studied chemical engineering at Ghent. Returning to the Netherlands,

Siegfried A. Wouthuysen 1916-1996



FACULTY POSITION IN THEORETICAL INTERMEDIATE-ENERGY PHYSICS

Indiana University

The Department of Physics of Indiana University is searching for a new faculty member in theoretical physics, with interests in the area of intersection between nuclear and particle physics. The appointment is at the tenure-track, assistant professor level, although exceptional candidates seeking tenured positions will be considered. The expected starting date is the fall of 1997, pending funding. We seek candidates with a strong commitment to teaching and research. The new faculty member will be part of the Indiana University Nuclear Theory Center and will be expected to interact strongly with the department's experimental groups in nuclear and particle physics. Indiana University is a major research institution; the Department of Physics has strong programs in theoretical and experimental nuclear, particle and condensed-matter physics, in high-energy astrophysics, and in accelerator physics. Indiana University is an Affirmative Action/Equal Opportunity Employer. Send applications by December 13, 1996 to Prof. M. H. Macfarlane, Search Committee, Department of Physics, Indiana University, Bloomington, Indiana, 47405

FACULTY POSITIONS IN PHYSICS

University of California, Berkeley

The Physics Department of the University of California, Berkeley intends to make at least two faculty appointments effective July 1, 1997. Candidates from all fields of physics are encouraged to apply. Appointments at both tenure-track assistant professor and tenured levels will be considered.

Please send a curriculum vitae, bibliography, statement of research interests, and a list of references to **Professor Roger W. Falcone, Chairman, Department of Physics, 366 LeConte Hall #7300, University of California, Berkeley, CA 94720-7300**, by Monday, November 25, 1996. E-mail applications will not be accepted. Applications submitted after the deadline will not be considered. The University of California is an Equal Opportunity, Affirmative Action Employer.

MIT

FACULTY POSITION

The Physics Department of the Massachusetts Institute of Technology invites applications for a tenure track position at the Assistant Professor level in the area of experimental high energy physics.

Physicists at MIT currently pursue e+e- physics at CERN (L3 detector) and SLAC (SLD detector), and p+p- physics at Fermilab (CDF detector). They are also preparing for LHC (CMS and Atlas detectors), PEP II (BABAR detector), and a search for antimatter in space (AMS).

These programs would welcome new members, but candidates with other research interests will also be considered. We are seeking, in particular, candidates whose long-term interests include involvement in the high energy frontier at LHC.

*Applicants should submit a curriculum vitae and publication list, and arrange for three letters of recommendation to be sent to: **Professor Wit Busza, Chairman, Search Committee, 24-510, Massachusetts Institute of Technology, 77 Massachusetts Avenue, Cambridge, MA 02139-4307**. Qualified women and minorities are encouraged to apply.*



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DESY is one of the leading German laboratories in high energy physics and synchrotron radiation research.

In the framework of an international collaboration, DESY is developing a Free Electron Laser for wavelengths far below the visible. The project is based on the superconducting TESLA Test Accelerator Facility (TTF), which provides the technological basis for a future high-energy electron-positron linear collider.

A key contribution to the success of this free electron laser will be a number of advanced electron beam diagnostics components. DESY has an opening for a

Postdoctoral Position

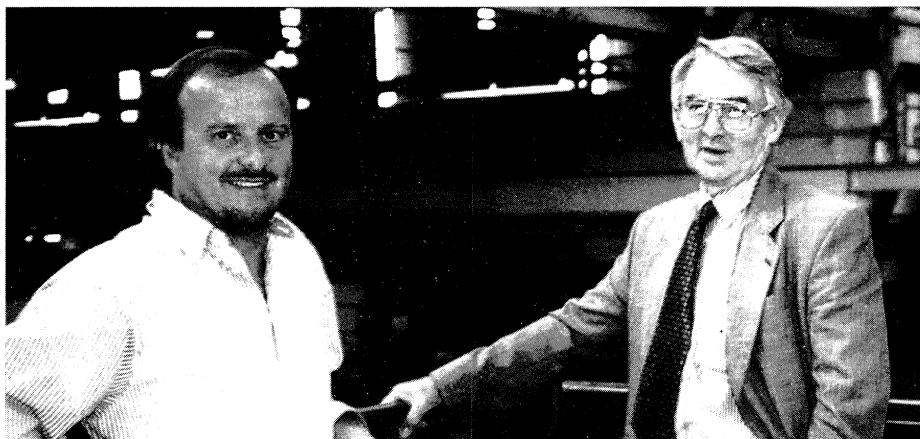
in this field. The successful candidate will be responsible for both coordination of work being already under way and construction of components to be designed by him/herself. The contract will be limited to 3 years. The salary will be according to the German civil services Ila MTV Angestellte.

Post-Docs who have experience in this field and are younger than 32 years, please send their letter of application and three names of referees before November 8th to:

DESY Personalabteilung
Notkestraße 85 D-22603 Hamburg
Tel.: 49-40-8998-3617
Fax: 49-40-8994-4305

Handicapped applicants will be given preference to other applicants with the same qualification. Women are especially encouraged to apply for this position.

Visiting CERN at the end of September was UK Institute of Physics Chief Executive Alun Jones (right), seen here at CERN's LEAR Low Energy Antiproton Ring with Rolf Landua.



his theoretical physics studies with H.A. Kramers were interrupted by the war. Continuing physics as best he could, he managed to communicate to Kramers a curious property of analytically-continued quantum amplitudes showing poles, which he interpreted as bound states. After the war, he followed Kramers' advice and went to Berkeley for a PhD with J. Robert Oppenheimer, subsequently moving to Princeton in Oppenheimer's wake. However his thesis had to be presented in Berkeley, and an overland car trip with Lesley Foldy resulted in the famous Foldy-Wouthuysen transformation.

Despite this success in the US, Wouthuysen preferred to continue his career in the Netherlands, where he established a school of Theoretical Physics in Amsterdam in 1950. He realized very early the importance of CERN, where he served as a national delegate from 1961-79 and was a member of the Scientific Policy Committee from 1963-74. He was a member of the Belgian Academy of Sciences and doctor honoris causa at Ghent. His colleagues and numerous students ensure that his memory remains alive.

Sir Nevill Mott 1905-96

Sir Nevill Mott, who shared the 1977 Nobel Prize with Philip Anderson and John Van Vleck for work on semiconductors, died in August. With parents who had worked at Cambridge's Cavendish Laboratory under J.J. Thomson, Mott was highly physics motivated, and after initial theoretical work at Cambridge in the 1920s went on to work with Bohr at Copenhagen and Bragg in Manchester. Returning to Cambridge in 1930, he made his classic contributions to the interactions of charged particles - Mott scattering. As professor of theoretical physics at Bristol from 1933, he concentrated on the use of quantum mechanics to explain semiconductor properties. In 1954, he became Cavendish Professor at Cambridge, succeeding W.L. Bragg, and formally retired in 1971, although he continued to be active, having most recently proposed a theory of high temperature superconductivity. As prolific writer, he was the author of several standard works.

External correspondents

Argonne National Laboratory, (USA)
D. Ayres

Brookhaven, National Laboratory, (USA)
P. Yamin

CEBAF Laboratory, (USA)
S. Corneliusen

Cornell University, (USA)
D. G. Cassel

DESY Laboratory, (Germany)
P. Waloschek

Fermi National Accelerator Laboratory, (USA)
Judy Jackson

GSI Darmstadt, (Germany)
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SCIENTISTS

The STAR group in the Physics Department at Brookhaven National Laboratory has the following positions available for Ph.D. scientists with several years experience in high energy or relativistic heavy ion physics.

1) A scientist to develop and maintain the GEANT infrastructure for STAR as well as relational databases and the corresponding interfaces required for other elements of the STAR software framework (simulation, event reconstruction, and on-line/off-line production software).

2) A scientist to develop and implement the software infrastructure for the STAR off-line data processing system and manage the STAR production software development. The successful candidate should have a working knowledge of UNIX operating systems as implemented on various platforms such as SGI (IRIX), IBM (AIX) and SUN (Solaris). Proficiency with scripting languages and with the C programming language is preferred. Responsibilities will include infrastructure support for the STAR analysis framework and the corresponding interface to CERN library software.

3) A scientist to assume the position of Project Leader for On-line Software, who will be responsible for the design, development, and implementation of the on-line computing system for STAR. This person will lead a large collaborative software effort which will be closely coordinated with the Project Leaders for other STAR hardware and software efforts. A thorough knowledge of on-line system software techniques for modern physics detectors is essential.

STAR is a large collider detector experiment to search for a new state of matter thought to have existed shortly after the creation of the universe. Candidates should send a curriculum vitae with names of three references to: Dr. Timothy Hallman, Physics Department, Bldg. 510A, Brookhaven National Laboratory, Associated Universities, Inc., Upton, New York, 11973-5000. Equal Opportunity Employer M/F/D/V.



BROOKHAVEN NATIONAL LABORATORY
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Physics Institute, The Academia Sinica, Taiwan

Postdoctoral Research Associate Positions in Experimental Particle Physics

The Experimental Particle Physics Group at the Physics Institute of the Academia Sinica in Taiwan invites applications to the available Postdoctoral Research Associate positions for further strengthening its program.

The group is involved in the CDF and Hyperon-CP experiments at Fermilab, the AMS project on the International Space Station Alpha, and is starting programs in Neutrino Physics towards long baseline experiments with reactor neutrinos, as well as Detector Development in Medical Physics. Preference for the immediate positions is on the Neutrino and AMS programs, while new openings for other areas are expected soon. Successful applicants will be able to work with an expanding group in a growing field in Taiwan, with much challenges and potentials for future growth.

Interested candidates please submit their curriculum vitae, statement of research interest, as well as the names and addresses of three professional referees, to

Prof. S.C. Lee,
Physics Institute
The Academia Sinica
Nankang, Taipei
Taiwan, R.O.C.

E-mail enquiry can be made to search@hep2.phys.sinica.edu.tw. Applications will be reviewed until the available positions are filled.

PAC'97

The 17th Particle Accelerator Conference (PAC'97) will be held May 12-16, 1997, in the Hotel Vancouver, Vancouver, B.C., Canada. The conference is held under the auspices of the APS and IEEE, and is being organized by TRIUMF and the University of Maryland. Abstracts are due 10 January 1997 at APS Headquarters.

For further information, contact Elly Driessen, TRIUMF, 4004 Wesbrook Mall, Vancouver, B.C., V6T 2A3, tel: (604) 222-7352, fax (604) 222-1074, e-mail: pac97@triumf.ca or visit the Web site: <http://www.triumf.ca/pac97.html>



The European School of High Energy Physics, held this year from 1-14 September at Carry-le-Rouet, near Marseilles, France, brought together 130 students from 30 nations.

CERN Courier contributions

The Editor welcomes contributions. These should be sent via electronic mail to

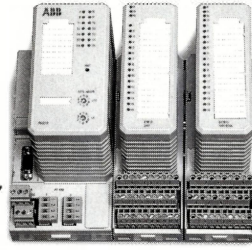
cern.courier@cern.ch

Plain text (ASCII) is preferred.

Illustrations should follow by mail (CERN Courier, 1211 Geneva 23, Switzerland).

Contributors, particularly conference organizers, contemplating lengthy efforts (more than about 500 words) should contact the Editor (by e-mail, or fax +41 22 782 1906) beforehand.

...steckt unsere wirtschaftliche Prozesssteuerung.



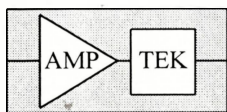
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APPLICATIONS

- X-Ray Fluorescence
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- Portable X-Ray Instruments
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- Mössbauer Spectrometers
- X-Ray Space and Astronomy
- Environmental Monitoring
- Nuclear Plant Monitoring
- Toxic Dump Site Monitoring
- PIXE

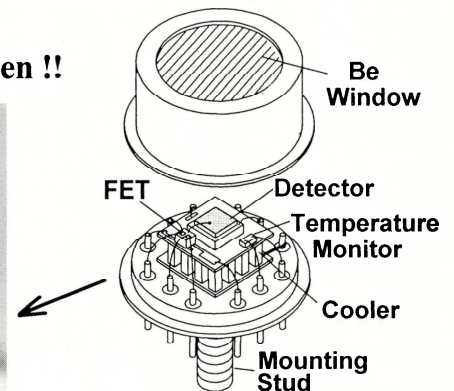
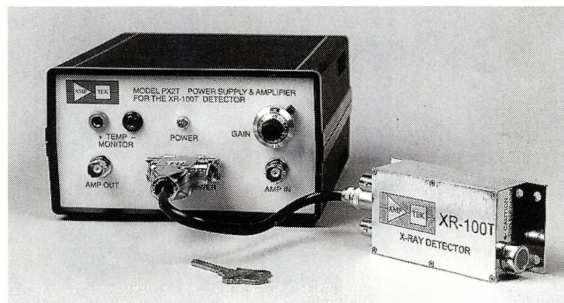
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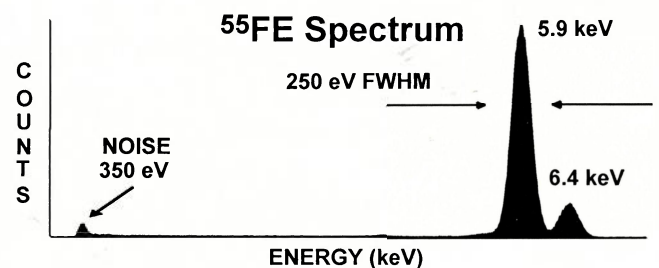
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France: Hamamatsu Photonics France S.A.R.L. TEL:(33)1 69 53 71 00 FAX:(33)1 69 53 71 10

Switzerland: CERN Liaison Office TEL:(41)31/879 13 33 FAX: (41)31/879 18 74