

People and things

introduction by Marcel Froissart; molecular optics, introduced by Alain Aspect; nuclear physics, introduced by Louis Michel; and other areas, introduced by Jean Pierre Batou.

The 'public figure' portion covers areas in which Perrin played a vital role, particularly the development of scientific research in general and atomic energy in particular in France, and the creation and development of CERN. He was a member of the small band of French pioneers who in the late 40s first thought of a European laboratory, an idea which took root when it received UNESCO blessing in 1950. French delegate to initial CERN meetings of CERN Council, Perrin also served as the Council's vice-president in 1952. His signature appears for France on the 1953 Convention document which created CERN. After the formal creation of the organization, he remained as French delegate to CERN Council from 1955 - 72 and was a member of the Scientific Policy Committee from 1960 - 74. After the commissioning of CERN's first accelerators, he pushed strongly for an ambitious and continual development programme for the Laboratory, leading to ambitious new machines and ensuring that it remained in the forefront of the world scene, and with a strong French involvement.

A monumental book on a monumental figure.

The Jacobfest at CERN was prefaced by a talk by Maurice Jacob's longtime colleague Claude Cohen-Tannoudji of the Collège de France and École Normale Supérieure, who shared the 1997 Nobel Prize with Steven Chu of Stanford and William D. Phillips, of the US National Institute of Standards and Technology, for their development of methods to cool and trap atoms with laser light.

Jacob's ladder

Official 'retirement' from CERN is not the end of Maurice Jacob's ladder. With a strong phenomenological flair focussing on topical issues, his scientific career has centred on major laboratories, particularly CERN, where his association has spanned 31 years, including a spell as head of Theory Division from 1982 - 89. Tireless campaigner in many research crusades, his energy, commitment and drive have also thrust him into key management and advisory roles, at CERN and elsewhere.

He has served as President of the French Physical Society in 1985 and as President of the European Physical Society from 1991 - 93. Maurice has also left his mark on scientific publishing, where he worked with leading North Holland/Elsevier journals from 1968 - 85, a period during which these European journals reflected a shift of research fortunes eastwards across the Atlantic. His zeal and sense of purpose in these roles are vividly related in his book 'In the Wings of



Maurice Jacob - the CERN Courier's indefatigable 'man on the spot'.



Physics', published by World Scientific.

A talented and enthusiastic presenter, orally and in writing, and in several languages, his culture and communications skills have been widely sought. Here the CERN Courier has been particularly fortunate. When CERN Research Director General Leon Van Hove set up the CERN Courier Advisory Panel in 1981, Maurice Jacob was its first Chairman. He showed an deep understanding of the objectives, and difficulties, of a journal published by CERN but aimed at a worldwide community.

He has continually ensured that the CERN Courier benefits from his wisdom and from intelligence gathered during his ambassadorial travels. Producing his compact camera wherever he goes, his lively photographs have considerably enriched our coverage of outside events.

Enzo Iarocci of Rome's 'La Sapienza' succeeds CERN Director-General-designate Luciano Maiani as President of the Italian Istituto Nazionale di Fisica Nucleare (INFN).



New INFN Director

Enzo Iarocci of Rome's 'La Sapienza' has been appointed President of the Italian Istituto Nazionale di Fisica Nucleare (INFN), replacing Luciano Maiani, soon to become Director General of CERN. Well known for his development of the streamer tube detector technique, Iarocci was Director of INFN's Frascati Laboratory from 1990 - 96. He chaired CERN's Detector Research and Development Committee from 1990 - 93 and has been Chairman of the LHC Experiments Committee since 1995.

On people

Ryugo S. Hayano of Tokyo receives the coveted Inoue prize for his role in studies of sigma hypernuclei at the Japanese KEK Laboratory and metastable antiprotonic helium atoms at CERN's LEAR low energy antiproton ring. The Inoue foundation awards five such prizes each year for outstanding contributions to basic research in natural science by researchers under 50 years of age. As spokesman for the ASACUSA

Colleagues, students and friends of Ryugo S. Hayano gathered at the International House of Japan in Tokyo to celebrate his Inoue prize and to wish him well in his future research. Left to right: John Eades (CERN), Ryugo Hayano (Tokyo), Sumiko Horikoshi-Widmann, Eberhard Widmann (RIKEN), Haruhiko Ota (KEK) and Toshimitsu Yamazaki (Japan Society for the Promotion of Science).



experiment (April, page 9) being prepared for CERN's Antiproton Decelerator, Ryu Hayano will continue to be a frequent visitor to CERN, as he was during the LEAR era.

for the first time in 1999, the 90th anniversary of Academician Bogoliubov's birth.

ICTP Dirac Medal

Peter Goddard, Master of St. John's College, Cambridge, and David Olive, of the University of Wales, Swansea, received the prestigious 1997 Dirac Medal of the Abdus Salam International Centre for Theoretical Physics, Trieste, for their work on strings, monopoles and duality in the 1970s and 1980s which helped prepare the ground for the current theoretical physics superstring revolution. The Dirac Medal, first presented in 1985, recognizes outstanding contributions to the fields of theoretical physics and mathematics.

New Russian medal

On 17 March, the Russian Academy of Sciences initiated a Gold Medal to commemorate the celebrated Russian physicist and mathematician Nikolai N. Bogoliubov, who from 1965-89 was Director of the Joint Institute for Nuclear Research (JINR), Dubna. The Academy's prestigious award will be presented

Major JINR meeting

A regular meeting of the governing body of the Joint Institute for Nuclear Research (JINR) - the Committee of Plenipotentiaries (CP) of the Member States - took place in Dubna on 12-13 March. Based on the report presented by JINR Director Vladimir Kadyshchewsky, the Committee considered the results of JINR's activity in 1997, the budget and research plans for 1998, and the scientific programme for the 1998-2000.

The CP approved the concept and plans of reforms for JINR submitted by the Director. Following the expiration of the mandate of the previous membership of the JINR Scientific Council, the CP approved a new list of Council members, composed of 44 persons, for a term of five years. The newly appointed Scientific Council includes delegates from JINR's 18 Member States and representatives of leading research centres in Brazil, France, Germany, Italy, and the USA. The new Council includes three CERN scientists: CMS spokesperson Michel Della Negra; senior research physicist Friedrich Dydak; and former CERN Director General Herwig Schopper.

Swiss Secretary of State Charles Kleiber (second from left) at CERN with (left to right) Hans Hofer and Felicitas Pauss of ETH Zurich and Maurice Bourquin of Geneva.



Meetings

The Fifth International WEIN'98 Symposium will be held in Santa Fe, New Mexico, USA from 14-19 June. WEIN'98 will focus on searches for physics beyond the Standard Model at low and intermediate energies, including theoretical studies in these areas. In addition, selected topics in the physics of the Standard Model will be included. Searches for new physics at high energy facilities, and topics in nuclear and particle astrophysics and in cosmology will also be discussed. WEIN'98 is an open conference. Further information at <http://hana-mana.lanl.gov/wein/> or from WEIN98@LANL.GOV.



Mordechai Bishari, Director General, Israel Ministry of Science (second from left) at CERN with (left to right) Giora Mikenberg of the Weizmann Institute, Scientific Attache Michael Wolff and ATLAS spokesman Peter Jenni.

Under an agreement between CERN and the Spanish Centre for Industrial and Technological Development (CDTI), each year several young engineering graduates come to CERN for training in accelerator-based high technology. Left to right: CERN's Member State Affairs Coordinator Maurice Jacob, Isabel Bejar Alonso, Dolores Escalera Rodriguez, CERN's Fellows and Associates coordinator Jose Salicio Diez, Diego Camacho, Juan Ejea Marti, Maria Montserrat Pol Fraga, Maria del Pilar Lozano Bernal.



Love Boson

*The Standard Model of Physics
has four forces in it:
the Strong, the Weak, Gravity
and the Electromagnetic.
But I've discovered a new force
that rules from high above.
Let me propose to you
a Unified Theory of Love!*

*Gluons are Strong!
They make a quantum-chromo glue
binding quarks into atoms
like I am bound to you.*

*Z's and W's are Weak!
They make particles decay
and atoms radioactive
that's how I feel when you're away.*

*Photons mediate E&M -
both particle and wave - they're so
yin-yang!*

*Gravitons attract
both mass and energy
they make the world go round and
round
that's what you do to me.*



*And so I'm searching for the boson
that mediates the force of Love!
But you can't measure it!
You can only feel it!*

*Pulling on the superstrings of your
heart!
We should add it to the Standard
Model Chart
the force that rules from high above
in a Unified Field Theory of Love!*

Lynda Williams
'The Physics Chanteuse'
San Francisco State University
<http://www.physics.sfsu.edu/~lwilliam>

*No Standard Model - Physics Chanteuse
Lynda Williams*

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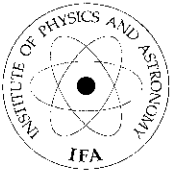
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**Institute of Physics and Astronomy
Aarhus University**

Post Doctoral Research Position

The Centre for CERN related Atomic and Nuclear Physics under the Danish Natural Science Research Council invites applications for a post doc position in experimental atomic physics. The position is open from September 1, 1998 for a 2 year period with the possibility of extension.

The successful applicant shall participate in an experimental program which aims to investigate the interaction between slow antiprotons and atoms. Phenomena such as energy loss, ionization and channelling will be studied. The program has as one long term goal the production and characterization of antihydrogen. The experiments will be designed and tested at Institute of Physics and Astronomy, Aarhus University, and will be carried out at the AD facility at CERN (Geneva) under the ASACUSA and ATHENA collaborations. The applicant shall work closely together with the members of the former PS194 and NA43 collaborations.

Applicants with experience in atomic collision experiments and/or experimental work at CERN will be preferred.

A PhD degree in experimental physics (or the equivalent) obtained within the past five years is a recommended pre-requisite. The salary depends on seniority as agreed between the Danish Ministry of Finance and the Confederation of Professional Unions.

Applications should include a curriculum vitae giving evidence on which the evaluation of the applicant's scientific qualifications can be based, a complete list of publications with an indication of those which the applicant selects as the most relevant for the application. The applicant must, upon request, submit further material required by the selection committee in its evaluation.

Applications (4 copies) including two letters of reference should be addressed to Faculty of Science, University of Aarhus, Ny Munkegade, Building 520, DK-8000 Aarhus C, Denmark, and marked 212/5-127. The deadline for the receipt of all application material is August 3, 1998.

For further information, contact Dr. Helge Knudsen, Institute of Physics and Astronomy, Aarhus University, DK-8000 Aarhus C, Denmark. Phone: (+45) 8942 3607, E-mail: hk@dfi.aau.dk. Information about the Institute can also be found at <http://www.dfi.aau.dk>

**POSTDOCTORAL RESEARCH IN
EXPERIMENTAL PARTICLE PHYSICS**

University of California, Riverside

The Department of Physics invites applications for postdoctoral research positions in experimental particle physics. The appointed individuals are expected to participate in the on-going research projects of the group, which include the e^+e^- experiment OPAL at LEP and the CMS at LHC. Candidates, who are recent recipients of the Ph.D., should submit a resume and list of publications and arrange for three letters of recommendation to be sent to: **Professor Benjamin C. Shen, Department of Physics, University of California, Riverside, CA 92521, USA.** Review of applications will begin on May 15, 1998 and will continue until the position is filled. The University of California is an Equal Opportunity, Affirmative Action Employer.

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Interested candidates should submit a resume and cover letter referencing **Job No. 98-0173R** to: **Kenneth Hewitt, MIT Personnel, PO Box 391229, Cambridge, MA 02139-0013.**



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**Niels Bohr Institute for
Astronomy, Physics and Geophysics**

Associate Professorship in Experimental Particle Physics

A position as associate professor (lektor) in experimental particle physics at the Niels Bohr Institute for Astronomy, Physics and Geophysics (NBIfAFG) will be open from December 1, 1998.

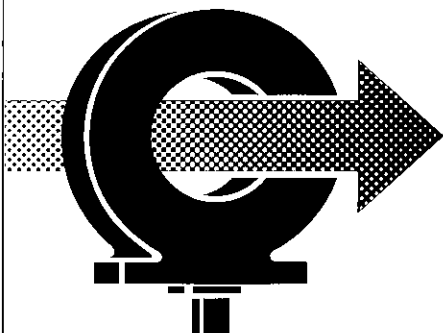
The particle physics groups are located at the Niels Bohr Institute, a department of the NBIfAFG, and the experiments are performed at CERN, Geneva, Switzerland, and at DESY, Hamburg, Germany. The group at the NBI is involved in the LEP experiments ALEPH and DELPHI, in the ATLAS experiments planned for the coming Large Hadron Collider at CERN and at HERA-B at DESY.

The chosen candidate will be based in Copenhagen but is expected to take on a significant role in the building up of ATLAS and in HERA-B. The candidate must have documented experimental research at an international level and have documented abilities in the construction of complex experiments. It is expected that the appointed candidate will participate in the continuous dialogue with the theory groups and will contribute to the physics of the experiments.

The position also demands participation in university teaching programs at all levels. The chosen candidate must be able to teach undergraduate physics courses in Danish within two years from the appointment.

The position is tenured under a contract between the Confederation of Professional Associations and the Ministry of Finance. The requirement of documented research mentioned above is mandated by the current Ministerial Circular on Job Structure. The annual salary depends on seniority, and the scale ends at a yearly salary of DKK 338,300 after contribution to the pension scheme and including a seniority independent yearly increment of DKK 65,400. In case the applicant does not have sufficient teaching experience, the first 1 1/2 year will be a probational period.

Deadline for applications is June 15, 1998, at noon. This announcement is an extract of the full legal announcement. The latter must be followed and can be found on the Institute homepage: <http://www.nbi.dk/NBIfAFG/> or obtained from the Institute Director, Professor Ole Hansen, Niels Bohr Institute for Astronomy, Physics and Geophysics, Blegdamsvej 17, DK-2100 Copenhagen Ø, Denmark (E-mail: oleh@nbi.dk).



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A limited number of post-doctoral Research Associate positions will be available in the coming year with research opportunities in the following areas:

Preparing for B physics with the BABAR detector at the PEP II Asymmetric B Factory, helping design and build the detector sub-systems and get ready for physics

Participating in a Particle Astrophysics program studying time-dependent x-ray sources with the USA (1996 launch) and R&D for a high-energy gamma ray astronomy experiment in space (GLAST)

These positions are highly competitive and require a background of research in high-energy physics and a recent PhD or equivalent. The term for these positions is two years and may be renewed.

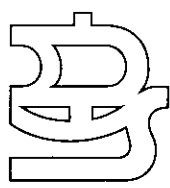
Applicants should send a letter stating their physics research interests, along with a CV, list of publications, and the names and addresses of three references to: Jean Lee, jeanlee@slac.stanford.edu, Research Division, M/S 80, SLAC, P.O. Box 4349, Stanford, CA 94309. Equal opportunity through affirmative action.

Stanford Linear
Accelerator Center
SLAC

Research Associate Position High energy Physics The Ohio State University

The Experimental High Energy Physics group at the Ohio State University invites applications for a postdoctoral research associate position with our CLEO program at CESR. In addition to our ongoing data analysis effort in heavy flavor physics, we are also involved with the CLEO III upgrade program where we have major responsibilities for the design and implementation of the Silicon Vertex Detector and data acquisition system. Interested candidates should send a letter of application, vitae, list of publications, and three letters of recommendation to Professor K.K. Gan, The Ohio State University, Department of Physics, 174 West 18th Ave., Columbus, Oh 43210-1106. *The Ohio State University is an equal opportunity employer and we actively encourage applications from women and minority candidates.*

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Fermi National Accelerator Laboratory



The Fermilab Board of Overseers of Universities Research Association, Inc. (URA) has initiated a search for a new Director of the Fermi National Accelerator Laboratory in Batavia, Illinois. The position, for a term of five years, renewable, will be available July 1, 1999. The Search Committee welcomes applications and nominations for this position. It is recommended that such applications or nominations be accompanied by curriculum vitae and other information bearing on the candidates' qualifications for the Directorship. Relevant qualifications include scientific stature, leadership capability, and management skills. Communications should be sent as soon as possible, preferably before June 12, 1998, and should be addressed to:

Ezra Heitowit
Vice President
Universities Research Association, Inc.
Suite 400
1111 19th Street, N.W.
Washington, D.C. 20036
e-mail: search@ura.nw.dc.us

A consortium of eighty-seven major research universities, URA operates Fermilab under contract with the U.S. Department of Energy.

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UNIVERSITY OF GENEVA

The Department of Nuclear and Particle Physics has an opening for a

Research Associate

The position is available for participation in the L3 experiment at LEP. Candidates must have a PhD degree in physics with appropriate experience in particle physics and be not more than 32 years of age. Responsibilities will include working with the charged track trigger of L3, analysis of L3 data, and teaching duties, in French, at the University. The position is available for a maximum period of 4 years. The closing date for applications is 15th June 1998.

Candidates should forward a curriculum vitae and the names of two referees to:

Prof. Maurice Bourquin
Département de physique nucléaire
et corpusculaire
24, quai Ernest-Ansermet
CH - 1211 Genève 4



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The applicants are expected to participate actively in the research program of the ZEUS collaboration and coordinate in the fields of detector physics and physics analysis.

Applicants should have a Ph.D. in the area of experimental high energy physics and have worked several years in this field. Good experiences with modern particle detectors, especially silicon detectors and fast analogue readout electronics are required.

The salary is determined according to tariffs applicable for public service work.

Interested persons should send their application including a resume and the usual documents (curriculum vitae, list of publications) until 29 May 1998 to

DESY-Personalabteilung
Notkestraße, 85, D-22607 Hamburg
Code-name: Koop-Hamburg

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

MICHIGAN STATE
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Ion Source Physicist
National Superconducting Cyclotron Laboratory
Michigan State University

The National Superconducting Cyclotron Laboratory (NSCL) at Michigan State University is searching for outstanding applicants to fill the position of Group Leader for Ion Sources. The NSCL is funded by the National Science Foundation and Michigan State University for research in nuclear physics, accelerator physics, and related instrumentation R&D. The successful candidate will lead the ion source group, which is responsible for developing beams of highly charged positive ions for cyclotron injection, maintenance and operation of the present complement of electron cyclotron resonance (ECR) ion sources, design and construction of advanced ion sources, and research directed towards furthering the fundamental understanding of ECR ion sources. Requirements include a PhD in Physics or related area, or equivalent experience. Knowledge in the areas of space charge limited beam transport, low energy beam injection, and plasma physics are highly desirable.

Positions in the NSCL Continuing Appointment system parallel tenure system ranks at MSU. The position will be filled within the Continuing Appointment system at the level commensurate with the successful applicant's experience. Applicants should send a resume and have three letters of reference sent to **Ms. Chris Townsend, Laboratory Administrator, National Superconducting Cyclotron Laboratory, Michigan State University, East Lansing, MI 48824-1321** by June 15, 1998.

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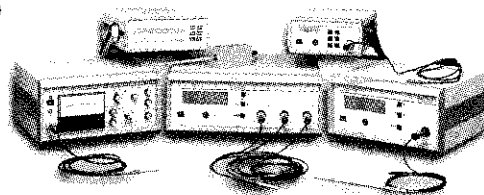
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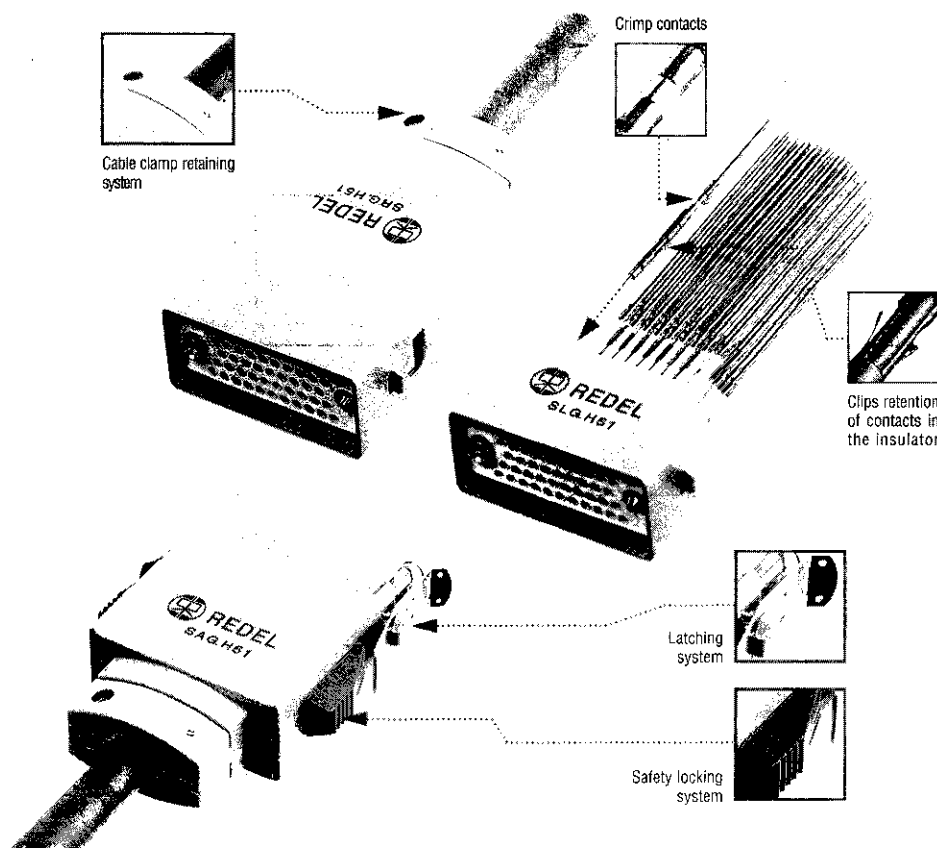


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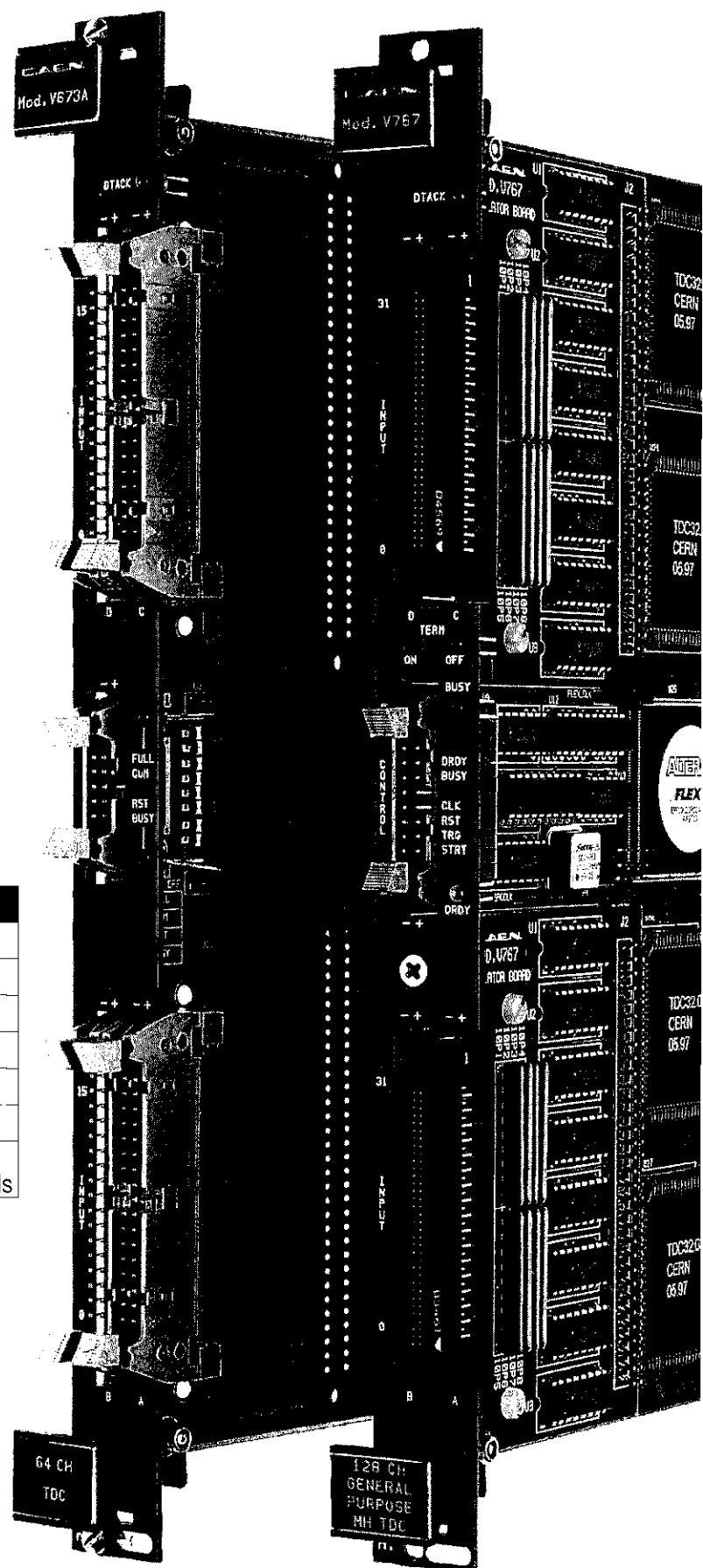
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