

SEMINARS SEMINAIRES

TUESDAY 20 MARCH

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium (*)
"Progress in Cherenkov Ring Imaging"
by T. Ypsilantis / CERN

Abstract : *The use of the photo-ionization process to convert UV light from Cherenkov radiation and for amplification has been the subject of recent experiments. These results will be presented and the theory of Cherenkov ring imaging will be developed. This theory indicates that a ring imaging detector which measures direction, velocity and mass of secondary particles is possible.*

(*) Note : Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 16.00 hrs to meet the speaker and for informal discussions. Tea and coffee will be provided.

WEDNESDAY 21 MARCH

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room
"Gauge Copies and Perturbation Theory"
by Y. Frishman / CERN

Abstract : *Gauge copies will be reviewed. It will be shown that in general, the perturbation expansion is not affected by the presence of copies. Such is the case in non-Abelian gauge theory, in the Coulomb or Landau gauges. Examples will be given, in the Abelian case, where gauge copies come in even perturbatively.*

DP SEMINAR

at 16.00 hrs - DD Auditorium
(Bldg. 31 - 3rd floor)
"CDC Installation Developments"
by T. Bloch / CERN

Abstract : *The status of the plans around the CDC equipment in the computer centre will be described and some critical issues around the Cyber 170 equipment and the NOS operating system will be raised.*

THURSDAY 22 MARCH

CERN ENERGY SEMINAR (GENERAL LEVEL)

à 16h30 - Amphithéâtre (*)
"Recherches en matière d'économies et de stockage d'énergie : actions menées par la Commission des Communautés Européennes"
par C. Hérinckx / CEE, Bruxelles

Resume : Les recherches relatives à l'utilisation rationnelle de l'énergie conduites ou supportées par la Communauté Européenne visent l'introduction de techniques nouvelles ou améliorées (pompes à chaleur, isolants thermiques, caloducs, etc.) pour la récupération d'énergie dans l'industrie, l'habitat et les transports, ainsi que les systèmes qui utilisent des sources nouvelles ou peu exploitées jusqu'ici (rayonnement solaire, géothermie, ...) et le développement des vecteurs et moyens de stockage appropriés. La CCE exécute dans ce but des programmes réalisés dans le cadre de contrats à frais partagés conclus avec l'industrie et les organismes de recherche nationaux (actions indirectes) et par des recherches exécutées par le Centre Commun de Recherche et entièrement supportées par la Commission (actions directes). Ces programmes sont décrits dans leurs grandes lignes, ainsi que leur évolution au cours des prochaines années.

(*) Note : Les personnes qui ont l'intention de suivre ce séminaire sont cordialement invitées à la Salle des Pas Perdus (face à la Salle du Conseil) à 16h00 pour rencontrer et discuter avec l'orateur. Thé et café seront servis.

VENDREDI 23 MARS

POUR INFORMATION / FOR INFORMATION

SEMINAIRE DU LAPP

à 10h30 - Amphithéâtre du LAPP

Laboratoire d'Annecy-le-Vieux de Physique des Particules - chemin Bellevue - Annecy-le-Vieux (Haute-Savoie, France)

"Théorie de la grande unification des interactions fortes, faibles et électromagnétiques"

par J. Ellis / CERN

Résumé : *On traitera des théories qui unissent la chromodynamique quantique et les théories de jauge des interactions faibles et électromagnétiques. On présentera des résultats phénoménologiques de telles théories, par exemple le calcul de $\sin^2 Q^A$, les masses de certains quarks et la désintégration du proton. On peut aussi spéculer sur l'origine du nombre baryonique de l'univers.*

Renseignements complémentaires auprès de H. Pessard / CERN-EP, Tél. 6526, ou Laboratoire d'Annecy-le-Vieux, Tél. (023) 23.32.45, int. 327.

TUESDAY 27 MARCH

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium
"Recent Results from the Crystal Ball detector at SPEAR"
by E. Bloom / SLAC

'NORWAY AT CERN'

CERN-MEYRIN, MARCH 26th - 30th, 1979

Administration Building (No 60, C2 Meyrin site plan) - first floor
Exhibition of Norwegian electronic and electro-mechanical equipment
Opening hours : 10.00 a.m. - 5.30 p.m. (closing Friday at 12.00 a.m.)

Twelve Norwegian companies and institutions present their latest equipment and know-how at the exhibition "NORWAY AT CERN". The exhibition is organized by The Export Council of Norway.

The participating companies and their product lines are the following :

BORRE ELEKTRONIKK
P.O. Box 81
N - 3195 BORRE
Tel. (4733) 81 892
Repr. at exhibition :
Helge Osvoid

Products on show : Printed circuit board -
Extender board.
The product range of Borre Elektronikk comprises :
- printed circuit board
- single and double sided as well as plated-through
circuits with fine line, soldermask, silk screen
mask and edge contacts.

EIDSVOLL ELECTRONICS
P.O. Box 38
N - 2081 EIDSVOLL
Tel. (472) 76 42 30
Repr. at exhibition :
Erik I. Olsson

Products on show : Decoder for PCM telemetry.
Platform transmitting terminal for Argos satellite
system.
Eidsvoll Electronics specializes in design, develop-
ment and prototype/small series production of pro-
fessional electronics, mainly in PCM telemetry.
In-house competence in other areas includes micro-
processors; thus the company has a wide design
capability and flexibility.

THE ELEKTRO UNION GROUP
Universitetsgaten 22/24
P.O. Box 1258, Vika
N - OSLO 1
Tel. (472) 22 19 00
Tlx. 17 721 elun n
Repr. at exhibition :
Torkjell Hatlebakk
Knut Jacobsen
Harry Eilertsen
Gunnar Svingen

Elektro Union - companies at CERN :
AC-ELEKTRO - EGA - ELMEK - NATIONAL INDUSTRI
Products on show : Transformer, alarm system with
35 on/off channels per cassette, electrode steam
boiler, control panel for power stations.
Elektro Union - the largest Norwegian-owned group -
comprises 7 electrical companies, each with its
specialities.
For power Supply and Control : Power and distribu-
tion transformers - furnace transformers - rectifier
transformers - power generators - phase compen-
sators - large synchronous motors - power capaci-
tors - high and low voltage switchgear and breakers
(incl. SF⁶) - transformer substations - DC-cross-
connection boards - motor control centres - elec-
trode boilers.
For Instrumentation and Automation : Industrial
process control systems - instrumentation systems.

.../..

OLAF FJELDSEND A/S
P.O. Box 146
N - 3201 SANDEFJORD
Tel. (4733) 68 948
Repr. at exhibition :
Frank Thorbjørn Ellingsen
Eilert Sundt
Repr. in Switzerland :
SIC AG, Wartenbergstrasse, 15
Postfach, CH 4020 Basel (tel. 061-419784)

INSTITUTT FOR ATOMENERGI
P.O. Box 40
N - 2007 KJELLER
Tel. (472) 71 25 60
Tlx. 16361 atom n
Repr. at exhibition :
Henning Bøhnsdalen
Bjarne Aarset

AKSJESELSKAPET MIKROELEKTRONIKK
P.O. Box 83
N - 3191 HORTEN
Tel. (4733) 42 651
Tlx. 21127 micro n
Repr. at exhibition :
Bjørn Gjersøe

A/S MYCRON
P.O. Box 6199
Etterstad
N - OSLO 6
Tel. (472) 67 78 07
Tlx. 16 136 sim n
Repr. at exhibition :
Ernst Bye
Ole Tormod Kristiansen

NORSK DATA FRANCE
"Le Brévent"
Avenue du Jura
F - 01210 FERNEY-VOLTAIRE
Tel. (50) 40 85 76
Tlx. 385653 nordata fernv
Repr. at exhibition :
Kjell M. Vognild

Products on show : Different types of water conditioners.
The company manufactures and markets internationally the watertreatment equipment known as the Polar Magnetic Water Conditioner. It is a unique method of treating water to prevent scale from hard water from forming in pipes, heat exchangers, cooling circuits, boilers and similar appliances. Polar Water Conditioners are available in sizes from small units for private homes to industrial units with a capacity of up to several hundred cubic metres per hour.

Institutt for Atomenergi (IFA) operates the Kjeller nuclear research centre and the Halden HBWR experimental nuclear reactor. As a supporting activity, IFA develops and manufactures special equipment for reactor and laboratory use and instruments for incore measurements in nuclear power reactors. IFA has experience in the following manufacturing technology :

- high precision machining in stainless steel and rare materials
- heliumtight joints by means of TIG and electro-beam welding as well as brazing in vacuum and controlled atmosphere
- mechanical and electromechanical assembly
- leak detection with helium
- scanning electron microscope examination.

Products on show : Various micro-electronic products. Aksjeselskapet Mikro-Elektronikk (AME) manufactures standard as well as custom designed micro-electronic products based on thin and thick film hybrid and monolithic technology.
The product range includes :

- microprocessors , PCM systems for telemetry and data acquisition
- miniature transducers for the measurement of pressure, force, acceleration, and vibration
- HF-Manapack-transceiver, microelectronic components of different kinds, such as optoelectronics, hybrid and monolithic integrated circuits.

Products on show : microcomputer systems.
A/S Mycron is a 100% Norwegian-owned company which has achieved wide international recognition for its work in development and production of modules and microcomputer systems.
Areas of application :

- industrial surveillance and control
- technical - scientific data processing
- administrative data processing
- data communication
- text processing
- educational sector.

Norsk Data focuses on development, production and sale of data systems for R & D , commerce and industry as well as public administration. Systems for administrative data processing represent an increasing part of the total sales. NORD computer systems are currently being used by CERN (about 110 systems), ASEA-ATOM and SKF in Sweden, and in F-16 simulator projects in the US. The company's most important products are NORD-10/S, NORD-50 and the operation system SINTRAN III/VS.

A/S NORSK ELEKTRISK KABELFABRIK
P.O. Box 23 Bryn
N - OSLO 6

Tel. (472) 67 41 80
Tlx. 18001 nek n

Repr. at exhibition :
Kjell Dehli
Bård Snilsberg

Products on show : Cables and wires.
Electrical cables and wires for :
- telephone services and communication
- radio, television and audio equipment
- data processing and office machine industries
- automation and instrumentation
- measuring, control and production
- ship communication
- photographie, optical and video equipment
- electromedicine.
For specific requirements according to drawings, samples, etc., NEK offers tailor-made solutions.

THE NORWEGIAN COMMITTEE FOR CERN-RELATED ACTIVITIES

c/o NSI
Forskningsveien 1
N - OSLO 3

Tel. (472) 69 58 80
Tlx. 11536 ciir n

Repr. at exhibition :
Håkon Buset
Jan F. R^raas

The Committee for CERN-related activities is an advisory body under the Scientific Research Council (RNF) of the Norwegian Research Council for Science and Technique (NAVF).
Purposes : Assist NAVF in the handling of matters relating to CERN or other activities in high-energy elementary particle physics/nuclear physics.
All aspects of the Norwegian association with CERN are subject to the Committee's mandate, with the exception of measures directed toward sale or other commercial aspects.

TANDBERG DATA A/S
P.O. Box 9
Korsvoll
N - OSLO 8

Tel. (472) 23 20 80
Tlx. 16441

The family of displays from Tandberg consists of three basic models : TDV 2114, 2115 and 2116. The "flag-ship" being the TDV 2114 which is a fully programmable terminal with a built in micro computer. The internal memory can be extended up to 64 000 bytes. In addition to the hardware, Tandberg offers basic software such as operating systems, commercial BASIC, COBOL-compiler and communication software. A new word-processing package is Tandberg's first step into the end-user market. Tandberg's other main product line is digital tape-recorders for datacollection and storage, consisting of one tape drive for \ inch magnetic tape and a recorder with standard cartridge.

TORE SEEM A/S
Kirkeveien 71
N - 1344 HASLUM

Tel. (472) 53 39 75

Repr. at exhibition :
Richard Andersen
Peter Sars-Nicolaysen

Products on show : Power supplies, electronic subtitle equipment. The firm develops, produces and sells low voltage primary and secondary switching power supplies for both civilian and military uses, sound equipment for radio and TV institutions, theatres, recording studios, etc., and electronic subtitle equipment for TV use. Tore Seem A/S owns a research division, workshops for mechanical treatment, mechanical and electrical mounting.

THE EXPORT COUNCIL OF NORWAY

- assists Norwegian manufacturers and exporters in promoting their goods, know-how and services abroad;
- serves foreign trade partners with information about Norwegian industry in general.

Main office :
The Export Council of Norway
Drammensveien 40
N - OSLO 2
Tel. ; (472) 11 40 30; Tlx. : 18532 n

Enquiries : M. Diraison / FI / 4585

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