

SEMINARS SEMINAIRES

MONDAY 27 OCTOBER

TECHNICAL PRESENTATION

9.00 hrs/12.00 hrs - Room 2-005, Bldg.13
(D2 CERN Meyrin map)

ANALOGIC Corp. (USA) represented by ANALOGIC AG (CH). Talk by B.M. Gordon (USA) about new products in modular A/D/A converters and high-speed processing.

Language : English

Information : M. Diraison / FI / 4585.

THEORETICAL SEMINAR

at 14.00 hrs - Theory Conference Room

" $t\bar{t}$ at 38 ± 2 GeV"

by S.L. Glashow / Harvard Univ.

TUESDAY 28 OCTOBER

SPECIAL SEMINAR

at 10.30 hrs - EF Conference Room
(Bldg. 13, 2-005)

R. Sutherland from Digital Equipment, Maynard, will make a presentation on the new VAX-11/750 system. (Contact : D. Williams / DD.)

CERN COLLOQUIUM

at 16.30 hrs - Auditorium *)

"The classical meaning of the S-matrix"

by W. Thirring / Vienna Univ. and CERN

Abstract : Classically the S-matrix corresponds to a canonical transformation in phase space which maps straight lines into straight lines. It is characterized by the time delay and the scattering angle. The phase shift is classically the generator of this transformation. Thus also Levinson's theorem which relates the number of bound states to the phase shift at infinity has classically a simple geometric significance.

*) Note : Those attending this colloquium 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 29 OCTOBER

PRESENTATION TECHNIQUE

9h30/16h00 - Salle 1-007, Bât.17
(D4 plan CERN Meyrin)

METRAWATT AG FÜR MESSAPPARATE (CH) propose en exposition-démonstration les matériels (D,A) suivants : enregistreurs de laboratoires, enregistreurs industriels, voltmètres et ampèremètres de tableau, indicateurs avec valeurs limites,

régulateurs, amplificateurs (transmetteur) puissance-courant fort et faible - température, instruments de services et de contrôle.

Langues : Allemand, anglais, français

Renseignements : M. Diraison / FI / 4585.

PS SEMINAR

at 11.00 hrs - PS Auditorium (Bldg.6)

"Electron cooling in ICE - Some theoretical aspects"

by Mrs. M. Bell / PS

Abstract : An outline of the estimation of cooling forces will be given and their application to the ICE experiment.

CERN ENERGY SEMINAR (TECHNICAL LEVEL)

at 16.30 hrs - Theory Conference Room

"Combined wind and hydro electricity system"

by B. Sørensen / Roskilde Univ. Center

Abstract : A high degree of coverage of electricity demand by wind energy conversion is possible only with access to energy storage. For regions with both hydro and wind resources, the hydro power system and the wind power system may complement each other and alleviate the need for any other energy storage. Scandinavia is such a region, and the present paper uses a simulation model to assess the conditions, under which all the electricity needs of Norway and Denmark could be satisfied by a combination of the existing Norwegian hydro power system with a hypothetical all wind-based Danish power system.

THURSDAY 30 OCTOBER

CERN ENERGY SEMINAR (GENERAL LEVEL)

at 16.30 hrs - Auditorium *)

"Planning for renewable energy"

by B. Sørensen / Roskilde Univ. Center

Abstract : Criteria for the formulation of long-term energy plans are discussed, and examples of energy planning for different parts of the World will be given. Human and social needs are used as the driving force for planning, and emphasis on efficient use of energy and extensive use of renewable energy sources is shown to be consistent with resource, environmental and social development considerations.

*) 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.

MONDAY 3 NOVEMBER

EP SEMINAR

at 17.00 hrs - Auditorium

"Hadron production in deep inelastic μp interactions"

by J. Gayler / DESY

TUESDAY 4 NOVEMBER

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"Glueballs and how to look for them"

by P. Roy / Tata Institute, Bombay/CERN

THURSDAY 6 NOVEMBER

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs - Auditorium

"The total cross-sections of Σ^- and Ξ^- on nucleons"

by P. Extermann / Geneva Univ.

TRAINING AND **EDUCATION** **ENSEIGNEMENT**

MONDAY 27, TUESDAY 28,

THURSDAY 30 and FRIDAY 31 OCTOBER

ACADEMIC TRAINING

(Tel. 2844)

at 11.00 hrs - Auditorium

"Grand unified theories"

by J. Ellis / CERN

For abstract, see last week's Bulletin and notices.

WEDNESDAY 29 OCTOBER

ACADEMIC TRAINING

(Tel. 2844)

at 11.15 hrs - Auditorium

"Radiation therapy of cancer : biological and medical principles" - Lecture 3

by C.F. Von Essen / SIN, Villigen

Lecture 4 on November 5 at 11.15 hrs in the Auditorium.

JEUDI 30 OCTOBRE

ENSEIGNEMENT GENERAL

(Tél. 2844)

13h00/13h30 - Amphithéâtre

"Science pour Tous"

par R. Carreras

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POUR INFORMATION / FOR INFORMATION

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VENDREDI 31 OCTOBRE

SEMINAIRE DU LAPP

à 10h30 - Amphithéâtre du LAPP

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

"Résultats de l'expérience WA7 de diffusion élastique meson-proton et antiproton-proton"

par C. Baglin / LAPP

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

FRIDAY 31 OCTOBER

SPECIAL SEMINAR (Tél. 5311)

at 16.30 hrs - Auditorium

"Adjustment to international life and work"

by N. Sartorius / WHO

Abstract: Dr. Norman Sartorius is Director of the Division for Mental Health of the World Health Organization in Geneva. This lecture will deal with the "cultural shock" and similar problems encountered by persons called upon to work for a while in a different cultural environment - a situation not unfamiliar to many of us.

THURSDAY 6, FRIDAY 7 AND

MONDAY 10 NOVEMBER

ACADEMIC TRAINING

(Tel. 2844)

at 11.00 hrs - Auditorium

"Pion condensation and its precursors"

by T.E.O. Ericson / CERN

Abstract : Nuclear pion condensate phenomena and their critical effects will be discussed in a non-technical approach emphasizing the generality of the phenomenon. The development of condensates are first discussed for pions in external potentials. The characteristic velocity dependence of the π -nuclear potential for physical pions easily gives rise to nuclear bound states. The characteristic influence of non-linear effects in the field controls the stability of the solutions, when the binding exceeds the restmass (Landau-Ginzburg equations). The coupling to the nucleons in the nucleus produces a spin-isospin ordering equivalent to zero sound. Well before the onset of the condensate critical phenomena occur (nuclear critical opalescence) associated with local spin-isospin ordering. These can be observed by appropriate studies with spin dependent probes in analogy to the exploration of antiferro-magnets with slow neutrons. The present experimental situation will be reviewed.