

Promotions acceptées hors-quota	1	-	-	13	2	4	3	-	23
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Examen du personnel supérieur Personnel supérieur de grades 11 à 14 (30 novembre 1977) : 413
Promotions acceptées : 9

EXAMEN DU PERSONNEL DU CERN 1978 - OCTROI DE CONTRATS DE DUREE INDETERMINEE

Contrats de durée indéterminée (hormis le personnel de recherche)	candidats	Oui	Non	En suspens	refus, reports à la demande des intéressés, démissions
Titulaires et personnel de laboratoire des catégories 2 - 5	175	156	4	4	11

SEMINARS SEMINAIRES

MONDAY 10 JULY

CERN NUCLEAR PHYSICS SEMINAR

at 11.00 hrs - Theory Conference Room

"X-rays from coalescing atoms"

by W.E. Meyerhof/Stanford University and
ETH Zürich

Abstract : If atoms of charge Z_1 and Z_2 are made to collide slowly enough, the inner-shell electrons arrange themselves to form quasimolecular orbits corresponding to the $Z_1 + Z_2$ system. In this way, systems up to a summed charge of 184 have been examined, in which extreme electronic relativistic effects appear. X-ray emission during the collision has been detected and leads to information on the time-development of the collision. The anisotropy of this radiation appears to contain spectroscopic information useful for the study of superheavy quasimolecular systems.

CERN SPECIAL COLLOQUIUM

at 17.00 hrs - Auditorium

"Around the universe in 50 slides"

by Tullio Regge/University of Turin

Please note special time

Abstract : A slide show in which about 50 of the most beautiful astronomical pictures taken in the last 20 years with telescopes and planetary probes will be commented upon and explained to non-experts. The subject covers the whole universe from the moon to the quasars.

All members of the personnel and their families are cordially invited.

TUESDAY 11 JULY

THEORETICAL SEMINAR

at 14.00 hrs - TH Conference Room

"Lessons about confinement and Higgs mechanism from a class of Abelian gauge models"

by M. Virasoro/Istituto Nazionale di
Fisica Nucleare, Torino

Abstract : Abelian gauge theories where the field $F_{\mu\nu}$ is replaced by a p differential form $F_{\mu_1 \dots \mu_p}$ μ_p are studied as a scheme where current ideas about confinement and Higgs mechanism can be tested. The "electric" and "magnetic" charges can be extended objects and a current can become an instanton. Some results : if a charge is condensed then the dual one is confined. Flux tubes will appear as topological excitations. They may condense and thus produce different effects (confinement of fractional charge ?). The instanton of QCD and the fluxons of 't Hooft and Vintiarelli can also be discussed in this scheme.

CERN PARTICLE PHYSICS SEMINAR

at 16.00 hrs - Auditorium (*)

"New results from Fermilab on neutrinos in hydrogen (E45) and anti-neutrinos in neon-hydrogen (E180)."

by B. Roe/The University of Michigan

Abstract : Dileptons and other charm effects will be discussed for the $\bar{\nu}$ data. Unusual ("Zoo") events have been searched for and at least one such $\bar{\nu}$ event will be discussed. The total cross section ratio on neutrons and protons has been obtained, as well as separate x and y distributions for neutrons and protons. In hydrogen exclusive and inclusive production of Δ^{++} , ρ and other resonances has been measured.

(*) Note : Those attending this seminar are cordially invited to the Salle des Pas Perdus (just opposite the Council Chamber) at 15.30 hrs to meet the speaker and for informal discussions. Tea and coffee will be provided.

WEDNESDAY 12 JULY

PRESENTATION TECHNIQUE

de 09h00/12h00 et 14h00/16h00

Salle de conférences Bât. 17-1-007
F-6 plan CERN

RHONALCO, représentant GOULD ADVANCE (UK) propose en démonstration : OS 245, 250B, 1100 et 3300B oscilloscopes 2 voies 10 à 50 MHz, 2 à 5 mV/division ou cm - OS 4000/4001 oscilloscope à mémoire numérique - BETA multimètre numérique 2000 points - GAMMA id. - DMM9 20 000 points - J3 générateur de signaux 10 Hz à 100 KHz - TC 312 compteur fréquences universel 2 voies - PG 58 générateur d'impulsions - 2200, 220 et 8000 enregistreurs galvanométriques asservis, pression d'encre ou trace thermique, tiroir modulaire.

Langues : français, anglais

Renseignements : M. Diraison/FI/4585

ESO ASTROPHYSICS SEMINAR

at 14.00 hrs - DD Conference Room
Bldg 31 - 3rd floor

"Initial results from the International Ultraviolet Explorer in extragalactic astronomy"

by M.V. Penston/ ESA Villafranca Satellite Tracking Station

Abstract : The IUE satellite and the Villafranca Satellite Tracking Station will be described. The extragalactic observations made during the High Priority Target phase by the Science Commissioning Team are described. They include results on one elliptical galaxy M87, one spiral M81, one Seyfert 2 galaxy NGC 1068, one Seyfert 1, NGC 4151, one BL Lac object B2 1101+38 and one quasar 3C273.

THURSDAY 13 JULY

TECHNICAL PRESENTATION

de 09h00 à 12h00
Stores conference room - Bldg 73-2-027
H/G-1 CERN site layout

A senior design engineer from TEKTRONIX INC. will talk about instrumentation (7000 series).

Language : english

Inquiries : M. Diraison/FI/4585

THEORETICAL SEMINAR

at 14.00 hrs - TH Conference Room

"Quark confinement and topology in QCD"

by G. 't Hooft/Utrecht

TUESDAY 18 JULY

CERN PARTICLE PHYSICS SEMINAR

at 16.00 hrs - Auditorium

"Miscellaneous (but nevertheless interesting) physics from the SLAC hybrid facility"

by J. Ballam/Stanford University

THURSDAY 20 JULY

CERN PARTICLE PHYSICS SEMINAR

at 16.00 hrs - Auditorium

"Hadron jets and evidence for parton-parton scattering"

by W. Selove/University of Pennsylvania

FRIDAY 21 JULY

CERN COLLOQUIUM

at 16.00 hrs - Auditorium

"Stellar evolution and supernova collapse"

by H. Bethe/Cornell University, presently at Niels Bohr Institute, Copenhagen

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

SUMMER STUDENT LECTURES - Next week

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|---------|-------|--|
| 19.7. - | 8.30 | Opening session |
| | 10.00 | R. Carreras - "High energy physics in everyday language" |
| 20.7. - | 8.30 | G. Stevenson - "Radiation protection in accelerator environments" |
| | 10.00 | Ch. Peyrou - "The classic experiments which founded high energy physics" |
| 21.7. - | 8.30 | J. Allaby - "The role of CERN in European high energy physics" |
| | 10.00 | Ch. Peyrou - "The classic experiments which founded high energy physics" |

All lectures will be given in English (though questions and/or comments in French are welcome), and will be held in the Main Auditorium.

INFORMATIONS **GENERALES** **GENERAL INFORMATION**

La Division SB/Groupe EM est appelée à exécuter des travaux de fouille sur la route A. Becquerel, entre le 10 et le 29 juillet 1978. Une partie du parking et la moitié de la route seront interdits à la circulation des véhicules automobiles. Nous prions les utilisateurs de bien vouloir se conformer à la signalisation du chantier.

Division SB/EM