

POUR / FOR INFORMATION

Université de Genève

Département de Physique Nucléaire et Corpusculaire
Ecole de Physique, 24, quai Ernest-Ansermet, 1211
Genève 4
Tél. 7026273 ou 7026369

Monday 27 April

PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Stueckelberg Auditorium

Heavy scintillators for high-energy physics experiments

by P. KOZMA / Czechoslovak Academy of Sciences

Progress and prospects in the R&D of heavy scintillation crystals for high-energy physics experiments are discussed. Possibilities for manufacturing of BaF², CeF³, GSO, Perovskite and Garnet Crystals as well as lead glasses in Czechoslovakia are presented. Optical properties, radiation hardness, uniformity, time and energy resolution of scintillators have been investigated. Properties of BaF² and BaF²+DPS are also compared. Tests of large volume crystals have been performed in beams of relativistic particles and nuclei at the JINR Dubna synchrophasotron. Applications of BaF² scintillators for gamma spectrometers, EM calorimeters and δE -E telescopes are displayed.

Monday 4 May

PARTICLE PHYSICS SEMINAR

at 16.15 hrs – Stueckelberg Auditorium

Understanding the 'Centauro' cosmic ray events in terms of a phase transition to quark matter

by A. D. PANAGIOTOU / Athens University

A phenomenological model for the production of 'Centauro'-type cosmic ray events, in terms of a phase transition to Quark Matter is developed. The model is then used to estimate, in a self consistent way, several thermodynamic quantities, characterizing the observed 'Centauro' events. We describe also a typical 'Centauro' event, possibly produced in the fragmentation rapidity of a Au+Au central collision at $\sqrt{s} = 200 \cdot A$ GeV. We suggest several characteristic signatures, based on the released photonic and hadronic contents (energy and multiplicity) and the formation of strange matter globs (strangelets).

TRAINING AND EDUCATION ENSEIGNEMENT

ENSEIGNEMENT GENERAL

Tél. 5811

Jeudi 30 avril

à 13.00 h – Amphithéâtre

Science pour tous

par Rafel CARRERAS

ACADEMIC TRAINING

Tel. 2844

4 & 5 May

11.00 to 12.00 hrs – Auditorium

High energy accelerators in medicine

by P. MANDRILLON / Laboratoire du Cyclotron,
Nice, France

The treatment of tumours with charged particles, ranging from protons to 'light ions' (Carbon, Oxygen, Neon) has many advantages, but up to now has been little used because of the absence of facilities. After the successful pioneering work carried out with accelerators built for physics research, machines dedicated to this new radiotherapy are planned or already in construction. The rationale for this new radiotherapy, the high energy accelerators and the beam delivery systems are presented in these two lectures.

LANGUAGE TRAINING SPECIAL ENGLISH COURSES

MAKING PRESENTATIONS FOR NON-NATIVE ENGLISH SPEAKERS

This four-day course is designed for those who have a reasonable knowledge of spoken English.

Objectives

- to develop the grammar, structure and vocabulary needed for presentations at meetings, seminars, etc.
- to develop confidence when speaking
- to develop an effective and fluent style

Programme

1. Learning the language needed for presentations
2. Video sessions
3. Self-evaluation and suggestions for improvement from the teacher

Dates & Times

18–19 May 1992 : 09.00–12.00 hrs and 13.00–16.00 hrs

1–2 June 1992 : 09.00–12.00 hrs and 13.00–16.00 hrs

Number of hours : 24

Number of participants : 8

Price : 450.– SF

If you are interested, please contact Ulrich Liptow, 2957.

(ADVANCED) WRITING FOR NON-NATIVE ENGLISH SPEAKERS

Two courses have been designed for scientists, technicians, and anyone else interested in improving their technical writing abilities.

As these are 'hands-on' courses, students are encouraged to bring in for correction and discussion material they are currently working on.

FIRST COURSE (2 weeks intensive, 12 hours a week)

Dates & Times

15, 17, 19, 22, 24 & 26 June 1992 : 10.00–12.00 hrs and 13.30–15.30 hrs

Number of hours : 24

Number of participants : 8

Price: 420.– SF

SECOND COURSE (6 weeks, 4 hours a week)

Time

18 May–25 June 1992

Mondays 13.30–15.30 hrs & Thursdays 17.00–19.00 hrs

Number of hours : 24

Number of participants : 8

Price : 420.– SF

If you are interested, please contact Ulrich Liptow, 2957.

To enrol, you should fill in an 'Application for Training' form which may be obtained from your Divisional Secretariat or the 'Users Office' (bldg. 61- R-020).

INFORMATIONS GENERALES GENERAL INFORMATION

RAPPORT ANNUEL SUR L'ASSURANCE MALADIE-ACCIDENT DU CERN

Le 'Groupe de travail Assurance Maladie', présidé par M. H.F. Hoffmann, a demandé à AUSTRIA Assurances de présenter désormais chaque année un rapport sur l'évolution de l'Assurance Maladie-Accident du CERN. Vous pouvez prendre connaissance ci-après du premier rapport concernant l'année 1991.

La Caisse Maladie du CERN comptait au 31.12.1991 un total de 11656 personnes assurées dont 5336 cotisants et 6320 membres des familles. Dans ces chiffres sont compris les assurés facultatifs, tels que les attachés et les consultants, les professeurs invités, etc. ainsi que les retraités et les membres de leurs familles.

A la suite du relèvement des primes de 7,9% à 8,98% du traitement de base à compter du 1.1.1991, le total des primes encaissées est passé de 26,3 MCHF en 1990 à 31,1 MCHF en 1991. L'augmentation réelle du revenu s'établit à 9,5% car un montant important doit servir à annuler la perte subie en 1990. La prime moyenne en 1991 a été de 602 CHF par mois et par famille, dont 65% à la charge de l'Organisation et 35% à celle du membre du personnel titulaire.

En ce qui concerne les remboursements, l'augmentation a été de 7,7% pour l'ensemble des frais médico-pharmaceutiques par rapport à 1990. Les frais de médecin et d'hospitalisation (13,4 MCHF) ont augmenté de 11,9%.