

EDUCATION SERVICES EDUCATIFS



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ENSEIGNEMENT ACADEMIQUE ACADEMIC TRAINING

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ACADEMIC TRAINING

LECTURE SERIES FOR POSTGRADUATE STUDENTS

22, 23, 24, 25 & 26 November

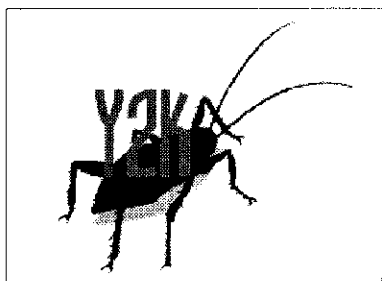
from 11.00 to 12.00 hrs – Auditorium, bldg 500

Standard Model Physics

by G. ALTARELLI / CERN-TH

Introduction. Structure of gauge theories. The QED and QCD examples. Chiral theories. The electroweak theory. Spontaneous symmetry breaking. The Higgs mechanism. Gauge boson and fermion masses. Yukawa couplings. Charges current couplings. The Cabibbo-Kobayashi-Maskawa matrix and CP violation. Neutral current couplings. The Glashow-Iliopoulos-Maiani mechanism. Gauge boson and Higgs couplings. Radiative corrections and loops. Cancellation of the chiral anomaly. Limits on the Higgs mass. Comparison with experiment. Problems of the Standard Model. Outlook.

INFORMATIONS GENERALES GENERAL INFORMATION



Y2K UPDATE

Concerning Y2K preparation, please note the following:

Everybody, who has a NICE installation on his/her PC, needs to log in to NICE at least once before Xmas to get the Y2K update installed. **This applies especially to dual boot systems.**

The test schedule on Y2Kplus.cern.ch will be prolonged. The last restart took place on 10 November and two more will take place on 24 November and 8 December, respectively.

The Oracle users responsible for the maintenance of Oracle Forms applications which include PL/SQL blocks where date fields are handled with the default format are requested to contact oracle.support@cern.ch at their earliest convenience.

Sverre Jarpe
(CERN Y2K co-ordinator, phone: 74944)

COMPUTING SERVICES DURING THE ANNUAL CERN SHUTDOWN

CERN will close on Friday 17th. December at 17:30, and will reopen on Monday 3rd January at 08:30.

As in recent years the Computing Services provided by IT Division will remain available as of Friday 17th at 17:30 but **running unattended**. The exceptions are the database and dedicated engineering services, which will not be available following agreement with their user communities.

This year, however, is rather special because of the Y2K issue and as such **an interruption is scheduled**.

This was decided in order to ensure that services are not affected by any unforeseen Y2K bugs at a time when support is not easily available, and to ensure that all systems can be started cleanly in the year 2000.

All user services will be closed at 18:00 on Wednesday 29th December after which backups will be taken overnight, then checked and the systems closed down. NO Computing Services will be available again until CERN reopens at 08:30 on Monday 3rd January. The only exceptions are the networking infrastructure, and the email gateway servers to ensure that no incoming mails are lost.

The systems themselves will be restarted and checked out during Sunday 2nd January in order that services will be available as scheduled when CERN reopens. While all precautions have been taken and possible problems anticipated one never knows and of course this year there are extra risks.

During the **"running unattended"** period (17th-29th Dec) there is no guarantee that any problems that may arise will be resolved and we cannot guarantee backups for Home Directory files and mailboxes, for either Unix or PC users. Changes that you may make to your files during this period therefore may be lost in the event of a disk failure.

However, there will be limited operator coverage during this period and users should call the operator (75011) or send an E-mail to Computer.Operations@cern.ch if they encounter problems. An answering machine will respond during times when no operator is present. Users who suspect a problem with networking equipment should call Network Operations (74927).

Service information will be viewable (as now) at: <http://tvscreen.cern.ch/>

LE CHIS BOARD ET LA DIVISION DU PERSONNEL
VOUS INFORMENT:

MAÎTRISE DES COÛTS DE LA SANTÉ
QUELQUES CONSEILS

La santé est une affaire personnelle, chacun recherche et trouve donc ses propres solutions pour maîtriser les coûts. Voici quelques suggestions que vous pouvez tout de suite mettre à l'épreuve...

- dans tous les cas non-urgents, vous efforcer de demander des devis aux hôpitaux et cliniques, et comparer leurs offres avant de vous engager dans des opérations importantes ;
- faire sentir aux médecins, généralistes et spécialistes, votre souci de rechercher des solutions économiquement raisonnables ;
- vous faire expliquer les divers traitements possibles ;
- vous faire expliquer les notes d'honoraires si leur montant vous surprend et contacter AUSTRIA si vous le jugez nécessaire ;
- éviter de prolonger des séjours hospitaliers par simple commodité ;
- vous souvenir que le dossier médical, hormis les notes personnelles du médecin, appartient au patient. Vous pouvez également demander communication des radiographies et analyses de laboratoire. En les conservant, vous évitez éventuellement d'avoir à les refaire inutilement.

Ces quelques indications montrent qu'il est possible de réaliser des économies sans nuire à la qualité des soins. Nous espérons qu'elles vous seront utiles.

BATTERIES USAGEES-RAPPEL
NOTE DE LA COMMISSION TIS

Les premiers froids allant arriver, les batteries les plus fatiguées des véhicules vont malheureusement rendre l'âme.

A ce propos, la commission TIS vous rappelle que le CERN ne collecte pas les batteries usagées des véhicules privés.

Il existe à proximité du CERN, que ce soit en France voisine dans les déchetteries ou aux Cheneviers dans le canton de Genève, toutes les facilités pour vous débarrasser de votre vieille batterie en toute sécurité pour les personnes et pour l'environnement, et ce gratuitement.

La durée moyenne d'une batterie étant de plusieurs années, ce n'est qu'un effort modique que vous avez à fournir pendant la période de vie de votre véhicule.

Alors, s'il vous plaît : plus de batteries abandonnées sur les parkings aux abords ou dans les bâtiments ; nous vous rappelons qu'elles contiennent de l'acide sulfurique concentré pouvant provoquer de très graves brûlures.

Pour de plus amples informations contactez R. Magnier / TIS-GS / 160879.

INFORMATION FROM THE CHIS BOARD AND THE
PERSONNEL DIVISION:

HEALTH COST CONTAINMENT
SOME SUGGESTIONS

Health is a personal matter so it is up to each one of us to find our own ways to curb costs. But here are a few suggestions that you may find useful.

- For non-urgent cases, try asking for estimates from hospitals and clinics and compare them before committing yourself to extensive treatment;
- make doctors realize - whether they are general practitioners or specialists - that you are concerned that your treatment should be at a reasonable cost;
- ask to have the various treatments available explained to you;
- if you are surprised by the size of your bill, insist that the items are explained to you and if necessary contact AUSTRIA;
- avoid long hospital stays for convenience sake;
- apart from the doctor's personal notes, medical files belong to the patient. You are also entitled to your x-rays and lab test results. Keep them thereby avoiding unnecessary repeat tests.

These tips show that savings can be made without undermining the quality of care. We hope they will be helpful.

USED BATTERIES-REMINDER
NOTE FROM THE TIS COMMISSION

Although it is not an obligation for CERN to collect, store and dispose of used batteries from private vehicles, they are often found abandoned on the site and even in the scrap metal bins. As well as being very dangerous (they contain sulphuric acid which is highly corrosive), this practise costs CERN a non-negligible amount of money to dispose of them safely.

The disposal of used batteries in the host state could not be simpler, there are "déchetteries" in neighbouring France at Saint-Genis, Gaillard and Annemasse as well as in other communes. In Geneva Canton the centre de traitement des déchets spéciaux, at Cheneviers on the river Rhône a few kilometers from CERN, will dispose of your batteries free of charge.

So we ask you to use a little common sense and to help protect the environment from the lead and acid in these batteries and even more important, to avoid the possibility of a colleague being seriously injured.

It doesn't take much effort to do this in the correct way, so please help us to improve the safety on site. Should you wish for further help or information please contact:

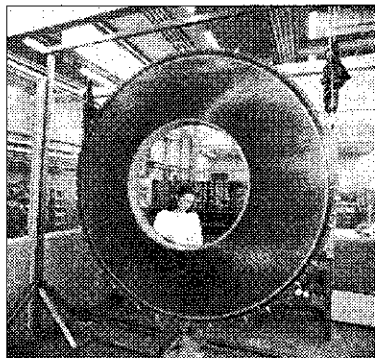
R. Magnier / TIS-GC / 160879.

The quality and the safety of our environment is our own responsibility, with little effort. Let's do it.

Profondément touchés par les témoignages de sympathie et les messages de condoléances reçus lors du décès de

Sylvie LUCAS

Son ami et sa famille remercient très sincèrement tous ses collègues, amis et partenaires du volley et les prient de trouver ici l'expression de leur reconnaissance.



Sylvie en campagne de mesure de vibrations du prototype RD6 du trajectographe interne d'Atlas.

POUR SYLVIE

Tous les collègues et amis du groupe EP/EC, mais aussi d'Atlas et de EP/TA1, garderont un intense souvenir de cette jeune femme aussi dynamique que son sujet de thèse (le comportement vibratoire de structures de détecteurs). Pendant les deux années que nous avons partagées avec elle, nous avons pu apprécier ses grandes qualités professionnelles: souci de la perfection, grande rigueur intellectuelle, dans une attitude toujours humble face aux phénomènes inexplicables de ses modèles. Mais c'est surtout sa joie de vivre et son entrain à créer autour d'elle la bonne ambiance et la détente que nous retiendrons, et l'immense dignité avec laquelle elle a subi ses dernières épreuves.

Sylvie, tu nous manquais déjà depuis ton départ en juillet pour la division LHC ; alors maintenant, tu penses ! C'est un bien grand vide que tu laisses...