



SEMINARS SEMINAIRES

Wednesday 21 August

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Monte Carlo exponentiation and small-angle Bhabha scattering

by Ronald KLEISS / CERN

The principle of exponentiation à la Yennie-Frautschi-Suura and its use in Monte Carlo simulations are outlined. As an application we discuss the simulation of small-angle Bhabha scattering, relevant for high-precision luminosity measurements at LEP. Salient features here are the structure of multiphoton radiation from the outgoing fermions, and the inclusion of interference between radiation from incoming and outgoing fermions. The resulting Monte Carlo program BLUES aims at a description of the data which is correct to at least order (α) + exponentiation effects, plus relatively trivial higher order effects such as vacuum polarization. Possible extensions (exact higher-order terms, large-angle scattering) are also discussed.

Monday 26 August

PPE SEMINAR

at 16.30 hrs – Auditorium

The CDF silicon vertex microstrip detector

by Olivier SCHNEIDER / LBL

The CDF experiment is being upgraded with a silicon microstrip vertex detector (SVX) for the next 1992 collider run at Fermilab; secondary vertex tagging capability provided by the SVX detector will be an important tool to achieve a promising beauty physics programme at CDF. This presentation will include a detailed description of the SVX detector, a discussion of the 1990 test beam results, and a progress report on the present construction and assembly. Motivations for such a detector at a hadron collider, and prospects for the future will also be mentioned.

Tuesday 27 August

ISOLDE EXPERIMENTS COMMITTEE

Open session

at 11.00 hrs – Council Chamber

1. *Introductory remarks.*
2. *Proposal: High-accuracy mass determination of unstable nuclei with a Penning trap mass spectrometer (CERN-Mainz-Montreal-Orsay-Warsaw; ISC 91-9/P6; G. Bollen).*
3. *Proposal: Measurement of nuclear moments and radii by collinear fast-beam laser spectroscopy (Mainz-Leuven-Montreal-CERN; ISC 91-13/P9; R. Neugart).*
4. *Proposal: COMPLIS: Collinear Spectroscopy Measurements using a Pulsed Laser Ion Source (Orsay-Mainz-Montreal-Paris-Lyon-GSI; ISC 91-7/P5; G. Huber).*
5. *Proposal: Systematic measurements of the Bohr-Weisskopf effect at ISOLDE (Bonn-CNAM, Paris-UT Chalmers-Kyoto-Lund-LASIM, Lyon-Mainz-NYU-Aimé Cotton, Orsay-Riken-Sendai-Tokyo-Uppsala; ISC 91-3/P1; H. Stroke).*
6. *Proposal: The structure of ground states and isomeric states of bromine isotopes as function of neutron number (Bonn-CERN-Lyon-NICOLE-ISOLDE Collaboration; ISC 91-5/P3; P. Herzog).*
7. *Proposal: Effect of particle-core-vibration coupling near the double closed ^{132}Sn nucleus from precise magnetic moment measurements (Delft-Gent-Manchester-Maryland-Novi Sad-Oxford-Surrey-NICOLE Collaboration; ISC 91-6/P4; N. Stone).*
8. *Proposal: Radioactive ions for surface experiments (Berlin-CERN-Konstanz-Aarhus; ISC 91-10/P7; H. Haas).*
9. *Proposal: Tilted-foil polarization and magnetic moments of mirror nuclei at ISOLDE (Rehovot-CERN-Oxford; ISC 91-11/P8; M. Hass).*
10. *Proposal: A search for axions and massive neutrinos (Aarhus-CERN-UT Chalmers; ISC 91-4/P2; G. Weyer).*
11. *Proposal: Fabrication of implanted ^{22}Na targets (CERN-Bochum-Caltech; ISC 91-14/P10; C. Rolfs).*

Closed session

following the Open Session, 6th floor Conference Room, continuing on Wednesday 28 August at 09.00 hrs

Tuesday 27 August

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

Genesis of the supersymmetric standard model and its unification

by Savas DIMOPOULOS/Stanford University, California, U.S.A.

TRAINING AND EDUCATION ENSEIGNEMENT

**GENERAL INFORMATION
ON THE 1991/92 TRAINING PROGRAMMES
ORGANISED BY EDUCATION SERVICES**

1) Brochures

The brochures for the new academic year are now in preparation, and should be available by early September. This applies to Technical Training, Management & Communication Training, Language Training and Academic Training. Further information will appear in the Weekly Bulletin in due course.

2) Application forms

For all training programmes involving prior enrolment (i.e. all programmes listed above except Academic Training), as from the start of the year 1991/92 there will be a single standard application form. This is expected from the printers in the next few days, and further information will be given in the Weekly Bulletin as soon as possible.

Education Services 3674 a.m.

Friday 30 August*

PS SEMINAR

at 14.30 hrs* – PS Auditorium

bldg 6/2-024

PILAC : A superconducting pion Linac facility for 1 GeV pion physics at LAMPF

by Henry A. THIESSEN / Los Alamos National Laboratory, USA

* Note special day and time

**INFORMATIONS GÉNÉRALES
CONCERNANT LES PROGRAMMES 1991/92
ORGANISÉS PAR LES SERVICES EDUCATIFS**

1) Brochures

Enseignement Technique, Formation au Management & à la Communication, Cours de Langue et Enseignement Académique: les brochures pour l'année académique 91/92 devraient être disponibles début septembre. Vous serez avertis de leur parution par voie de bulletin.

2) Bulletin d'inscription

Un nouveau bulletin d'inscription standardisé sera désormais utilisé pour tous les programmes des Services Educatifs où une inscription préalable est requise (tous les programmes mentionnés ci-dessus sauf l'Enseignement Académique). Renseignements complémentaires dans le bulletin dès qu'ils seront à disposition.

Services Educatifs 3674 a.m.

SUMMER STUDENT PROGRAMME

This week

<i>Mon. 19 August</i>	09.00	R. Landua	Physics highlights from LEAR (1)
	10.15	---	-----
	11.15	---	-----
<i>Tue. 20 August</i>	09.00	R. Landua	Physics highlights from LEAR (2)
	10.15	---	-----
	11.15	---	-----
<i>Wed. 21 August</i>	09.00		Course Review
	10.15		Course Review
	11.15		Course Review

While these lectures are prepared for Summer Students who are at CERN this summer, they are open to anyone at CERN. Many of these lectures treat topics at general level, such that they are a golden opportunity for a staff member to find out more about something outside his/her daily work. Whether you are new at CERN, or have been here a long time and wish to have a better understanding of what goes on, why not study the lecture programme carefully and mark dates in your diary to attend a few Summer Student Lectures! All lectures are given in English and held in the Auditorium (unless otherwise indicated).

Fellows & Associates Service
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