

COMMUNICATIONS OFFICIELLES

OFFICIAL NEWS

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ASSURANCES SOCIALES SUISSES (AVS) PROCÉDURE D'AFFILIATION VOLONTAIRE – COMPLÉMENT D'INFORMATION

Les membres du personnel de nationalité suisse et leurs conjoints, qui souhaitent rester affiliés à titre volontaire aux assurances sociales suisses, doivent renvoyer la demande d'adhésion dûment remplie à la Caisse de compensation. Par contre, la Caisse cantonale genevoise de compensation nous a confirmé que **l'envoi du certificat AVS, d'une attestation de salaire et d'une attestation de la Caisse de pensions CERN n'est pas nécessaire**, contrairement à ce qui est imprimé sur le formulaire; les Autorités suisses sont déjà en possession des informations y relatives.

Service juridique
Tél. 2717

SEMINARS SEMINAIRES

Tuesday 21 March

SPS AND LEAR EXPERIMENTS COMMITTEE

Open session

at 09.00 hrs – **Council Chamber***

1. Status report on NEWMASS (NA52) : K. Pretzl.
2. Status report on CERES (P280) : I. Tserruya.
3. SQUASH: Strangelets, Quarks and Antinuclei Search at High sensitivity (CERN - INR, Moscow - Inst. for Atomic Physics, Bucharest - IPN, Univ. de Lyon / CNRS-IN2P3, Villeurbanne - LIB-Coimbra and Univ. de Coimbra - LIP-Lisboa and FC, Lisboa - St. Petersburg State Univ. - Univ. di Catania and Sezione INFN - Univ. di Torino and Sezione INFN; SPSLC 95-15/P289) : P. Sonderegger.
4. Status report on SMC (NA47) : V. Hughes.
5. A measurement of depolarisation and spin transfer in ppbar → AAbar (Univ. of New Mexico, Albuquerque - Univ. Bonn - Carnegie-Mellon Univ. - Univ. Erlangen - Univ. Freiburg - IKP, Forschungszentrum Jülich - Uppsala Univ. - Univ. Urbana-Champaign; SPSLC 95-13/P287) : K. Röhrich.

Closed session

at 14.00 hrs to be continued on Wednesday 22 March
at 09.00 hrs, 6th floor Conference Room, Main Building

* Please note change of place

Tuesday 21 March

TECHNICAL PRESENTATION

at 14.30 hrs – CN Auditorium, bldg 31/3-005

Real-Time from Digital

by E. Douglas JENSEN / Technical Director for
Embedded & Real Time Computer Systems, Digital
Equipment Corporation

- Overview of current real-time offering :
 - Boards (VME boards, PC motherboards, VME servers, PCI-VME bridge, PCI-HIPPI adapter.)
 - Chips (21164, PCI-PCI bridge, PCI-100 Mbit Ethernet.)
 - Software (OSF/1 real-time extensions, VxWorks and its APIs, VMS and NT real-time features)
- Digital's family of next generation real-time OS's :
 - Based on scalable architecture ranging from small, simple, centralised, deeply embedded, sampled-data subsystems to large, complex, distributed, mission-critical systems;
 - A micro kernel that manages resources across nodes, maintaining correctness of distributed execution and consistency of distributed data, coping with multiple independent failure domains, coping with locality of references in time and space;
 - Elimination of the "hard"/"soft" dichotomy by offering a continuum of timeliness assuring the most predictable timeliness possible under whatever the current, dynamically uncertain, circumstances are.
- Instantiations of the architecture :
 - Implementation of a family of microkernel-based OS's in collaboration with IBM and others;
 - "middleware" on existent real-time exec's such as VxWorks

- Digital UNIX (a.k.a. OSF/1)
- Interoperation with Microsoft Windows environments via COM, and with CORBA-based environments such as IBM's SOM/DSOM

– Questions and Answers.

Organiser : S. Cannon / CN / 5036

Wednesday 22 March

PS SEMINAR

at 11.00 hrs – PS Auditorium

The REX-ISOLDE Project

by P. van DUPPEN / CERN-PPE

A pilot experiment will be performed at ISOLDE to study the very neutron-rich light nuclei around the $N=20$ and 28 shell closures via Coulomb excitation, and to demonstrate highly efficient ways to bunch, charge-state breed and accelerate mass separated singly-charged radioactive beams. This new approach towards post-acceleration of radioactive ion beams is based on a combination of existing $1+$ (60 keV) beams from an on-line mass separator, a Penning trap, an Electron Beam Ion Source (EBIS) and a linear accelerator. The different parts of the accelerating cycle, the present results from feasibility studies and alternative ways to produce post-accelerated radioactive beams will be discussed.

Wednesday 22 March

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

$k_{\perp}$ -factorization and small- x hard processes

by M. CIAFALONI / Firenze & CERN

I review the implications of high-energy, $k_{\perp}$ -dependent factorization for vector boson exchange processes in QCD and QFD. In the QCD case, requiring consistency of such factorization with the renormalization group determines anomalous dimension and coefficient factor as functions of the effective variable $\alpha_s \log(1/x)$. The method has been applied to heavy flavour production and to structure functions, and allows also a comparison of the so-called BFKL and GLAP evolution equations.

Thursday 23 March

LHCC REVIEW BOARDS (LCRB, LDRB, LERB)

Open session

at 09.00 hrs – Council Chamber

09.00-09.30 RD29 Status Report : DMILL – A mixed analog-digital radiation hard technology for high energy physics electronics (CEA DSM DAPNIA Saclay–CEA DTA LETI Grenoble–CEA Bruyères le Châtel–Thomson TCS Grenoble–IN2P3 : CPP Marseille & LAL Orsay; LHCC 95-13/LERB Status Report/RD29; M. Dentan).

09.30-10.00 RD31 Status Report: NEBULAS - High performance data-driven event- building architectures based on an asynchronous self-routing packet-switching networks (CERN–CEA DSM DAPNIA Saclay–Massachusetts Institute of Technology–Institute of Radiation Sciences Uppsala–KTH Stockholm–Alcatel Bell Telephone Antwerp–Hewlett Packard Geneva; LHCC 95-14/LCRB Status Report/RD31; J.-P. Dufey).

10.00-10.30 RD38 Status Report: CICERO – Control information system concepts based on encapsulated real-time objects (BARC Bombay–CERN–CIEMAT Madrid–IVO International Helsinki–KFKI Budapest–OBLOG Lisboa–SEFT Helsinki–SPACEBEL Brussels–User Interface Design AB Linköping–USDATA Brussels–Bristol–Valmet Automation Tampere–VTT Oulu; LHCC 95-15/LCRB Status Report/RD38; J.M. Le Goff).

10.30-11.00 Proposal: High resolution tracking devices based on capillaries filled with liquid scintillator (NIKHEF–Anada–Humboldt Univ. Berlin–IIHE [ULB–VUB] Brussels–JINR Dubna–CERN–Technion Haifa–Westf. Wilhelms Univ. Münster–Univ. “Federico II” & INFN Napoli–IHEP Protvino–Univ. “La Sapienza” & INFN Rome; LHCC 95-7/P60 LDRB; G. Martellotti).

Friday 24 March*

COMPUTING SEMINAR

at 11.00 hrs* – CN Auditorium, bldg. 31/3-005

Track-parallel GEANT: from dream to reality

by Mario GUANZIROLI, Carlino CASARI, Graziano MEOLA / European Architectures Project, CRS4, Sardinia

We report on the status of the Esprit Project P7519 PALACE: Parallelization of a Large Code for the Simulation of the Effects of Radiation. The PALACE project, a collaboration of CRS4, ENEA, and ACS, aims at the parallelization of GEANT. We present our results obtained with a track-parallel version, comparing the speed-ups measured on a number of different platforms. A detailed description of the program decomposition will also be discussed.

Mario Guanziroli is a physicist with a long background in Monte Carlo simulation and on parallel processing, including participation to the L3 LEP experiment. He is now project leader of the Palace Project at CRS4. Carlino Casari and Graziano Meola are CRS4 scientists in charge of technical development within the Palace project.

** Please note unusual day and time*

Organiser : D. Kemp / CN

Friday 24 March

MEETING ON PARTICLE PHYSICS PHENOMENOLOGY

at 14.00 hrs – TH Conference Room

Gluon fragmentation to aligned charmonia

by Peter CHO / Caltech

Friday 24 March

CERN COMPUTING COLLOQUIUM

at 16.00 hrs – Auditorium

Creating the American National Information Infrastructure – The Interaction of Science, Technology, Business, Legislation and Politics

by Robert E. KAHN / President, Corporation for National Research Initiatives, Washington D.C.

R. Kahn will discuss the current situation in the United States with respect to development of a National Information Infrastructure (NII). He will address the roles being played by various government and private sector parties and likely

scenarios for evolution of the NII. The interplay of technology with non-technological considerations will also be addressed.

** Coffe and tea will be served at 15.30 hrs*

Monday 27 March

DETECTOR SEMINAR

at 11.00 hrs – ECP Conference Room, bldg 13/2-005

The Neutrino Oscillation Search Proposal - M.I.N.O.S.

by Daniel A. CRANE / Argonne National Laboratory

A summary of the proposal to search for $\nu_\mu \rightarrow \nu_\tau$ and/or $\nu_\mu \rightarrow \nu_e$ oscillations using a muon neutrino beam from Fermilab to Soudan, Minnesota. The beam designs, the design of reference near and far detectors, and several of the proposed oscillation tests are presented.

Monday 27 March

CERN PPE SEMINAR

at 16.30 hrs – Auditorium

Recent QCD Results from the D0 Experiment

by Jaehoon YU / University of Rochester

The D0 detector at the Fermilab pbar-p collider at $\sqrt{s}=1.8$ TeV has accumulated approximately 13.5pb^{-1} during the 1992-93 collider run and is accumulating more data in the current run. Thanks to near hermetic coverage, excellent energy resolution, and fine segmentation of the calorimeter, the D0 detector has been providing an excellent testing field of various perturbative QCD predictions. Color coherence in two jet final states, azimuthal angle correlations as a function of jet rapidity difference, the di-jet triple differential cross section, and an alpha-s determination from W+jet production will be discussed.

Thursday 30 March

REAL-TIME COMPUTER SHOW EUROPE AT CERN

09.00 to 16.00 hrs – Administration Building, bldg. 60, 1st floor

Thirty-nine companies will present their real-time products at this exhibition at CERN. This event is organized by Active Exhibitions Europe.

The following companies announced their participation:

Acquisition Technology (NL)

Becom (D)

Cetia (F)

Centralp (F)

DDC-I (DK)

Digital Equipment (CH)

Digital Interactive Solutions (UK)

Ecrin (F)

EHS Electronic Systems (D)

Electronic Enclosure Solutions (UK)

Elma Electronic (CH)

ESD (D)

Floating Point Systems (UK)

Force Computers (D)

Gespac (CH)

GSI Tecs (F)

Harris Computer Systems (D)

Hewlett Packard (UK)

HSP (F)

INCAA (NL)

Lecroy (CH)

Lynx Real-Time Systems (USA)

Metavision (F)

Micro Process Ingenierie (F)

Microware (F)

MSP Friedli (CH)

NAT (D)

OmniRay (CH)

Pentland Systems (UK)

Philips (NL)

Spectralab (CH)

SKY Computers (UK)

Struck (D)

Themis Computer (F)

Verilog (F)

VI Computer (USA)

Virtual Prototypes (CAN)

Vsystems (F)

Windriver Systems Wilk (UK)

Information : L. Pregernig / CN, E-mail or 2666

Friday 31 March

SL SEMINAR

at 11.00 hrs – SL Auditorium, Preveessin, bldg. 864, 1st floor

Simultaneous, long- and short-lived neutral kaon beams for Experiment NA48

by Niels DOBLE / CERN-SL

COGNE MEETING OF THE SPS AND LEAR COMMITTEE

29 May – 3 June 1995

We would like to remind you that the deadline for submitting documents is **28 March 1995**.

SPSLC Secretariat / 4270 /
E-mail : SPSC@CERNVM.CERN.CH