

seminars

PHYSICS I - ELECTRONICS EXPERIMENTS COMMITTEE

Monday, 1 May, 1972
9.00
NP Conference Room

CLOSED SESSION

PHYSICS III SEMINAR

Monday, May 1
11.00
Theory Conference Room

"Distributions of nuclear moments and polarization from muonic X-rays"
H.P. Fovel / Karlsruhe

CERN PARTICLE PHYSICS SEMINAR

Tuesday, May 2
16.30
Auditorium

"Experiment on ρ^- production and decay in the reaction $\pi^- p \rightarrow \pi^- \pi^0 p$ at 5 GeV/c"
K.M. Terwilliger - CERN/University of Michigan

Tuesday, May 9
16.30
Auditorium

"A measurement of high energy Λ^0 -hyperon nucleon total cross-sections"
H. Wahl / CERN

CERN COMPUTER SEMINAR

Friday, May 5
14.30
Council Chamber

"Addressing and store organization of the MU5 computer"
F.H. Sumner / University of Manchester

Abstract: The MU5 is a research computer nearing completion in the Department of Computer Science at the University of Manchester. A brief description of the overall system will be given but more emphasis will be placed on the organization of the different levels of store and the accessing of instructions and operands.

CERN APPLIED PHYSICS SEMINAR

Monday, May 8
14.30
Council Chamber

"Theory and practice of beam transport design (application to 300 GeV beams)"
K.L. Brown - CERN/SLAC

Abstract: A very general approach to beam transport design will be discussed which includes a systematic method for designing the first-order optics and for calculating and correcting second and higher-order aberrations in beam transport systems and magnetic spectrometers over momentum ranges of a few MeV/c to hundreds of GeV/c. Two specific computer programs, which are presently being activated at CERN, will be discussed: the first is a NEW version of TRANSPORT which includes a second-order fitting capability to minimize the effects of second-order aberrations, and the second is a ray-tracing program, TURTLE, for tracing random rays through beam transport systems designed with TRANSPORT, using essentially the same deck of computer cards as was used for the TRANSPORT computation. TURTLE is particularly suited for calculating beam profile distributions of small phase space area beams such as will be encountered in the 300 GeV Programme.

PRESENTATION TECHNIQUE

Vendredi, 5 mai
Bus demonstration - Parking
PTT près bât. admin.
Anglais, Allemand, Français

Vendredi, 5 mai
9.30-11.30
Salle conférence MPS,
Bât.10, 2ème étage, 2-004
Allemand (questions: anglais
et français possibles)

La maison STOLZ AG, représentant Bell et Howell, vous propose une démonstration d'enregistreurs à bandes magnétiques pour acquisition de données analogiques; seront également présentés des oscilloscopes et accessoires.

La maison VACUUMSCHMELZE GMBH (D), représentée par MATTHEES (CH), vous propose trois conférences:

Dr. A. Mager: "Alliages magnétiques doux et les alliages pour des aimants permanents (pièces polaires, aimants de déflexion, blindages)".
"Soft magnetic alloys and alloys for permanent magnets (pole pieces, deflection magnets, magn. shields)."
(45 minutes) -----

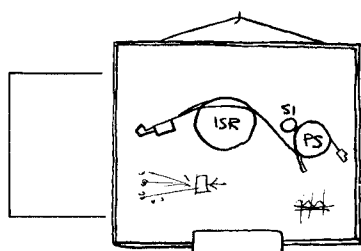
Dr. Boll: "Noyaux et composants en alliages magnétiques et leur utilisation (transformateurs d'alimentation, transformateurs de mesure de courant, transformateurs et bobines d'inductance d'impulsion...)"
"Cores and components in magnetic alloys and their application (power transformers, measuring transformers, impulse transformers and bobbins)".
(45 minutes) -----

Dipl. Phys.
A. Hönig: "Alliages avec propriétés physiques spéciales (alliages de scellement, alliages trempables de resorts, alliages de dilatation, bilames)."
"Hardenable alloys for springs
Expansion alloys
Bimetals."
(20 minutes) -----

Samedi, 6 mai
9.30
(lieu définitif en fonction du
nombre d'inscriptions - Genève)
Anglais (questions en français)

La maison SIGNETICS (USA) se propose de faire une conférence sur les circuits intégrés Phase locked loop (PLL), génération offrant de très nombreuses possibilités d'application; ils travaillent aussi bien en fonction logique ou analogique couvrant des fréquences de 0,01 Hz à 30 MHz. Le conférencier est l'un des ingénieurs ayant développé ce type de circuit.

S'inscrire avant mercredi 26 avril (M. Diraison / 4585)



enseignement

ACADEMIC TRAINING

Mardi 2 mai
14.15
Salle du Conseil

Tuesday, May 2
Wednesday, May 3
Friday, May 5
11.00
Council Chamber

Thursday, May 4
11.00
Council Chamber

MATHEMATIQUES
"Eléments d'analyse numérique"
par F. Louis (2ème leçon)

HIGH-ENERGY PHYSICS
"Tests of relativity theory"
by W. Kundt
Lecture 1: An introduction to theories of gravitation
Lecture 2: Solar system effects
Lecture 3: Running and planned experiments

HIGH-ENERGY PHYSICS
"Properties of spin states and reaction analysis"
by G.C. Wick (1st lecture)