



seminars

Attention : As from Friday, November 17, 1972, the office of the Scientific Conferences Secretariat will be transferred to the second floor of Lab. 4, R. 2-065, which is situated opposite the PE Conference Room. The telephone numbers 4687 and 3090 will remain unchanged.

Attention : A partir du vendredi 17 novembre 1972, le bureau du Secrétariat des Conférences Scientifiques sera transféré au 2ème étage du Lab. 4, Bureau 2-065, qui se trouve en face de la Salle de Conférence du Personnel. Les numéros de téléphone 4687 et 3090 restent les mêmes.

W.O. Lock

Education Services / Services Educatifs

CERN COLLOQUIUM

Tuesday, November 21
16.30
Auditorium

"The Mass-radius relation of objects in the Universe, and the approach to the Schwarzschild singularity"
T. Gold / Nordita

Abstract : A discussion, with a series of slides, of the sizes of objects and their path to gravitational collapse; stars, clusters, galaxies and clusters of galaxies all have their particular hurdles in the way before they can reach the singularity. Some of these hurdles may represent the circumstances we recognize as Quasars and radio galaxies. On the largest scale there may occur singularities only a small factor less massive than our universe, nesting within it.

PHYSICS III SEMINARS

Vendredi 24 novembre
11.00
Salle Théorie

"Production de fragments légers dans les interactions proton-noyau et conséquence astrophysique"
J.P. Allard / Clermont-Ferrand

Friday, December 1
11.00
Theory Conference Room

"Electron Scattering and Few Nucleon Systems"
U. Amaldi / CERN - Rome

CERN PARTICLE PHYSICS SEMINAR

Tuesday, November 28
16.30
Auditorium

"Pion-electron scattering at Serpukhov"
D. Drickey / UCLA

DD SEMINAR

Thursday, November 30
16.00
Theory Conference Room

"Interactive Computing and Graphics at LBL"

D. Austin / Lawrence Berkeley Laboratory - Mathematics and Computing Group

Abstract : Interactive computing facilities at the Lawrence Berkeley

Laboratory presently include a large teletype network, the prototype CDC 250 Display system with five independent consoles, the new IRATE system with 16 terminals, the Remote Computer Access System and a small computer based system with storage scope teletypes and special text-editing keyboards. Hardcopy graphics devices available are several CalComp plotters, the CDC 254 micro-film plotter and a Datagraphix COM system.

The facilities are used extensively by physicists and engineers for data display and analysis, bubble-chamber event rescue, beam transport design, simulation of the Electron Ring Accelerator, electronic circuit design and analysis and the production of publication quality graphical and text output on microfilm.

An interactive graphics modeling system, developed as a research project, is now being used for continuous systems simulation (biological and environmental modelling, digital logic and electronic circuit analysis) and graphics editing. Three-dimensional modeling is currently under development, with applications in 3-0 magnet design, data representation and molecular modelling.

CERN APPLIED PHYSICS SEMINAR

Friday, December 1
14.30
ISR Auditorium
(Bldg. 30 - 7th floor)

"Communications Satellites"

W.L. Pritchard / Director, COMSAT Lab., Clarksburg, USA

Abstract : After a survey of the fundamentals of satellite communications, some aspects of this technology related to electron physics will be illustrated. Specific examples will be cited with reference to the radiation environment in orbit, the process of converting solar into electrical energy, the storage of electrical energy for operation during eclipses, and the use of ion engines for electric propulsion.

Advances in highly reliable, efficient, low noise electron devices such as tunnel diodes and travelling wave tubes for the amplification of wide band signals and the generation of power in the GHz will be reported.

The trends of future communications satellite systems will be indicated.

PRESENTATIONS TECHNIQUES

Mercredi 22 novembre
Salle de Conférence TC -
Bât. 13 - 2ème étage

La firme Harris Semiconductor (USA), représentée par Stolz AG, propose deux conférences techniques :

de 09h.30 à 12h.00 : Radiation Hardened Linear Circuits

de 14h.30 à 16h.30 : Radiation Hardened Digital Circuits and C-Mos

Langue : Anglais

Mercredi 22 novembre
Bus de Démonstration -
Parking PTT - près Bât.ADM
de 14h.00 à 16h.30

La firme Turbo (D), représentée par F. Baumgartner, Zürich, expose des débitmètres industriels et de laboratoires pour liquides et gaz (des neutres aux plus agressifs), des contrôleurs de niveau.

Langues : allemand, français

Jeudi 23 novembre
Bus de Démonstration
Parking PTT - près Bât.ADM
de 09h.00 à 16h.00

La firme Sprecher et Schuh (CH), présente du matériel basse tension:

- contacteurs 10 à 1000 A

- relais de commande, temporisés ...

- coupe-circuits 250 à 1000 A

- interrupteurs souscharge de 15 à 1000 A

- boutons poussoirs, lampes de signalisation, bornes et matériel de connexion

Langues : Allemand, anglais, français, italien.

Renseignements :

M. Diraison / FIN / 4585