



# bulletin



Week Monday 26 April

no 17/93

Semaine du lundi 26 avril

## COMMUNICATIONS OFFICIELLES

## OFFICIAL NEWS

Les membres du personnel sont censés avoir pris connaissance des communications officielles ci-après.

La reproduction même partielle de ces informations par des personnes ou des institutions externes à l'Organisation exige l'approbation préalable de la Direction du CERN.

Members of the personnel shall be deemed to have taken note of the news under this heading.

Reproduction of all or part of this information by persons or institutions external to the Organization requires the prior approval of the CERN management.

### COMITÉ POUR L'AVANCEMENT DU PERSONNEL SUPÉRIEUR

Veuillez noter la nouvelle composition du Comité pour l'avancement du personnel supérieur pour 1993

### SENIOR STAFF ADVANCEMENT COMMITTEE (SSAC)

Please note the revised composition of the Senior Staff Advancement Committee (SSAC) for 1993

G. ALTARELLI / TH  
F.A. FERGER / ST  
J. GAREYTE / SL

Division du Personnel  
Tel. 2988

Personnel Division  
Tel. 2988

## SEMINARS SEMINAIRES

### Monday 26 April

#### DETECTOR SEMINAR

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

**First results with a fast RICH pad detector  
for B physics**

by Tom YPSILANTIS / Collège de France, Paris

*A full scale Fast RICH detector system with pad readout for unambiguous imaging has been constructed for operation in a high luminosity environment. It uses the best photosensitive gas capable of fast response (TEA) or the intrinsically fast CsI/TMAE photocathode, developed specifically for this purpose. It has a time resolution of 20 ns with a 1.3 microsecond pipeline followed by parallel readout of 4000 channel sectors in 2-3 microseconds. Fast digital VLSI electronics has been developed for readout and 20000 channels have been received*

*and tested. The actual detector with 12000 readout channels has been tested with cosmic rays using CaF<sub>2</sub> or LiF radiators. Reconstructed Cherenkov angles in accordance with expectations have been measured and will be reported. The use of such detectors for B physics experiments will be presented.*

### Monday 26 April

#### PPE SEMINAR

at 16.30 hrs – Auditorium

**A determination of  $\alpha_s(M_Z)$  at LEP using  
resummed QCD calculations**

by David WARD / University of Cambridge  
(OPAL collaboration)

*The strong coupling constant,  $\alpha_s$ , has been determined in hadronic decays of the  $Z^0$  resonance, using measurements of seven observables relating to global event shapes, energy correlations and jet rates. The data have been compared with resummed QCD calculations, which are combined with the  $O(\alpha_s^2)$  theory. The seven measurements agree to about 10%, and the final result, based on a weighted average, is  $\alpha_s(M_Z) = 0.120 \pm 0.006$  where the error includes both*