

At its Forty-eighth Meeting on 1 March 1979, the Executive Board first considered and discussed the figures which will be put forward by the Management for the Long-Term Programme and Budget Estimates 1979-1982. The Board then heard a report on the probable evolution of the personnel budget for 1979 and on the financial possibilities for external recruitment. After discussion it was agreed to authorize a total of four posts for external recruitment now and to review the situation again in May 1979. It further approved guide-lines for External Recruitment, which are published in pages 2 and 3 of this Bulletin.

The Board approved the documents Safety Policy at CERN, 1978 Edition, New Procedures for Internal Audit concerning orders and contracts, and the revised Information Sheet on Professional Accidents and Illnesses. It heard a report on the fact that the Gargamelle Power Supply can be used to power the dipole magnet of Experiment UA1.

At its Forty-ninth Meeting held on the afternoon of 1 March 1979, the Executive Board discussed LEP Studies and the Long-Term Future of CERN.

INSERTIONS IN THE WEEKLY BULLETIN - (Reminder)

The Weekly Bulletin is one of the major media of communication within CERN. To help those who use the Bulletin, the deadlines for contributions and the standard procedure are as follows :

DEADLINES

1) Items for publication in the 'CERN Bulletin' section (1st part) should be sent to the Editorial Section (Building 61-Room 022-Tel.4106). This applies to all official texts from the Management, or from Division or Group Secretariats, such as official announcements by the Management, administrative notices, and information and reports on scientific or training/education matters.

DEADLINE for reception of contributions :
Tuesday 12 noon

but earlier in the case of articles of exceptional length. Internal circulation envelopes should be marked : 'CERN Bulletin (Mrs. Blazianu PU/ED)'.

2) Items for publication in the Staff Association section should be sent to the Association Secretariat (Wilson Hut, Building 511). Items appearing under the various headings of this part are published under the direct authority of the Staff Association.

DEADLINE for reception of contributions :
Tuesday 12 noon.

TRAINING AND EDUCATION ENSEIGNEMENT

(Secrétariat: Tel 2844)

WEDNESDAY 21 MARCH

ACADEMIC TRAINING

at 11.00 hrs - Auditorium

"Gravitational waves" (Lecture 4)

by E. Amaldi / Univ. of Rome

- Mechanical detectors for gravitational waves

The large majority of these devices belong to two classes : resonant (or Weber type) antennas and broad band laser interferometers. The lecture will be mainly devoted to the first class. Special consideration will be given to a few typical electromechanical transducers and to the various sources of noise. The sensitivity of such devices will be finally discussed.

THURSDAY 22 MARCH

ACADEMIC TRAINING

at 11.00 hrs - Auditorium

"Gravitational waves" (Lecture 5)

by G. Pizzella / Univ. of Rome

The optimum filter algorithm based on the Wiener-Kolmogoroff theory for the linear mean square estimation of signals in presence of noise is applied to the data which can be supplied by a gravitational wave antenna. It is shown that the signal to noise ratio for the filtered data is independent on the data sampling time and on the electronic chain. The sensitivity of a gravitational antenna to short bursts of radiation as derived from the optimum filter improves with increasing Ω/T but eventually approaches a limit which depends only on the intrinsic noise of the electromechanical transducer and on the antenna mass. When the quantum limited noise is reached the only way to improve the sensitivity of the antenna is to increase its mass. It turns out that in order to be able to observe the supernovas in the Virgo cluster a mass larger than 1000 Kg might be necessary.

JEUDI 22 MARS

ENSEIGNEMENT GENERAL

de 13h00 à 13h30 - Amphitheatre

"Science pour tous"

par R. Carreras