

SEMINARS SEMINAIRES

Lundi 30 août

PRESENTATION TECHNIQUE

de 09h00 à 16h30 – Parking PTT, Bât. 63

DRAGER (Suisse)/SA représentant Dräger (D) propose en exposition des produits issus des départements PROTECTION RESPIRATOIRE - ANALYSE ET DETECTION DES GAZ pour la protection contre les toxiques et poisons des voies respiratoires sur les lieux de travail.

Langues : allemand, français

Renseignements : M. Diraison / FI / 4585

Monday 30 August

SPECIAL EF SEMINAR

at 11.00 hrs – Bldg. 13, Room 2-005

Development of a compact transition radiation detector for electron-hadron separation in jets.

by Martin Holder / University of Siegen

EP SEMINAR

at 17.00 hrs – Auditorium

Use of a large multicell ionization detector - The External Particle Identifier - In experiments with the BEBC hydrogen bubble chamber

by Martha Spyropoulou-Stassinaki, Univ. of Athens and CERN

Fast secondary particles from interactions of K^+ at 70 GeV/c and K^- at 110 GeV/c in the BEBC hydrogen bubble chamber were identified by use of the relativistic rise of ionization in argon. The ionization was measured in a large multicell ionization counter system, the External Particle Identifier (EPI). The operation of this hybrid system, the calibration and the procedures of off-line analysis leading to particle identification will be described. Track by track identification procedures will be discussed, yielding samples of pions and kaons with a contamination less than about 12%.

Tuesday 31 August

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*)

How big is the Universe?

by A.H. Karp / IBM Scientific Center, Palo Alto

We all read about the latest discoveries in astronomy concerning pulsars, quasars, and the overall structure of the Universe. Inherent in all these discussions is some measure of distances. Since we can only measure directly the distances of nearby objects, astronomers must rely on inference. In this talk I will show how,

starting with just a ruler, it is possible to determine the distance to the farthest reaches of the Universe. For reasons that will be made clear, astronomers refer to this procedure as the 'Distance Ladder'. Throughout this talk, I will attempt to keep track of the errors introduced on each rung of the ladder.

*) Tea and coffee at 16.00 hrs.

Wednesday 1 September

THEORETICAL SEMINAR

at 14.00 hrs – TH Conference Room

Supersymmetric GUTs

by K. Tamvakis / CERN

We review the status of supersymmetric GUTs, focusing on their predictions concerning the Weinberg angle, proton decay, etc. as well as their cosmological implications.

Thursday 2 September

CERN COLLOQUIUM

at 16.30 hrs – Auditorium*)

ALPEX, the Alpine experiment

by Joachim P. Kuettner / World Meteorological Organization

ALPEX, a coordinated effort of 20 nations to explore the influence of mountain ranges on the earth's atmosphere was centered at Geneva. It is part of the Global Atmospheric Research Programme (GARP) of the World Meteorological Organization in which most of the world's nations participated during the last decade. A description is given of the scientific problems, of the field operations in Europe (March/April 1982) and of the first scientific results.

*) Tea and coffee at 16.00 hrs.

Tuesday 7 and Wednesday 8 September

LEP EXPERIMENTS COMMITTEE

at 09.00 hrs - 6th Floor, Adm. Bldg.

CLOSED SESSION

Tuesday 7 September

CERN PARTICLE PHYSICS SEMINAR

at 16.30 hrs – Auditorium

High energy physics plans in Japan

by K. Kondo / University of Tsukuba, Tokyo