

After discussing the most relevant concepts of stability in Celestial Mechanics, the different methods of analysing motion stability of celestial bodies will be considered by numerical, analytical and qualitative approaches. As one relevant example, the 'restricted three body problem' (where a body of infinitesimally small mass moves in the gravitational field of two massive bodies) will be discussed in detail. Special emphasis is put on stable and unstable motion, ergodic and chaotic behaviour of the system. To conclude, an investigation of possible planetary motions in double star systems will be discussed.

In addition please note

Many of the mathematical techniques used in celestial mechanics may be applicable to accelerator dynamics. Dr Dvorak is presently visiting CERN to explore possible cross-applications between these fields. Those persons whose interest goes beyond the above-mentioned general seminar, are welcome to attend two seminars of the LEP Theory Group on the details of the mathematical methods in the LEP Conference Room (Bldg 30, 6-003) on 23 and 24 October at 14.15 hrs.

Monday 28 October

EF SEMINAR

at 11.00 hrs – EF Conference Room
(Bldg 13, 2-005)

The Stanford Linear Collider (SLC)

by A. MINTEN / CERN

Monday 28 October

EP SEMINAR

at 16.30 hrs – Auditorium

**Triple Jet Production at the ISR and
Determination of the Strong Coupling According
to Lowest Order QCD**

by Hans Henrik THODBERG / Niels Bohr
Institute, Copenhagen

The Axial Field Spectrometer collaboration has studied pp collisions at 63 GeV using a 2- and a 3-jet trigger. It is demonstrated that a sample of well-separated triple high p_T jet events can be described as due to the QCD bremsstrahlung process. The energy flow of these 3-jet events is presented and compared with an independent fragmentation model. From the ratio between the 3- and 2-jet production cross-sections the strong coupling is determined to lowest order.

Wednesday 30 October

PLEASE NOTE UNUSUAL DAY AND TIME

SPECIAL CERN PARTICLE PHYSICS SEMINAR

at 14.00 hrs – Auditorium

**Strange quarks and quark plasma
in nuclear collisions at CERN**

by J. RAFELSKI / University of Cape Town

TRAINING AND **EDUCATION** **ENSEIGNEMENT**

ENSEIGNEMENT GENERAL

Tél. 2844

Jeudi 24 octobre

de 13.00 h à 13.30 h – Amphithéâtre

Science pour tous

par R. CARRERAS

ACADEMIC TRAINING

Tel. 2844-3364

21, 22, 23, 24 and 25 October

11.00 to 12.00 hrs – Auditorium

Basic accelerator optics

by K. STEFFEN / DESY

Lectures 1 to 5

SEMINAIRES EF DE L'AUTOMNE 1985

Cet automne, la division EF organise une nouvelle série de séminaires.

Programme préliminaire :

EF AUTUMN SEMINARS 1985

EF Division is organizing a new series of seminars to take place this autumn.

Preliminary programme :

25 octobre	<i>Please note unusual day</i> New results of the Berkeley-TPC by W. HOFFMANN / LBL, Berkeley	25 October
28 octobre	The Stanford linear collider (SLC) by A. MINTEN / CERN	28 October
4 novembre	SLC experiments and detectors by C. PRESCOTT / SLAC	4 November
11 novembre	Status report on the Omega-RICH detector by J. EADES / CERN	11 November
18 novembre	Results and developments of microvertex detection by F. PIUZ / CERN	18 November
25 novembre	Progress on ACOL by E. JONES / CERN	25 November
2 décembre	The UA2 upgrading by O. GILDEMEISTER / CERN	2 December
9 décembre	The UA1 VME based data readout system Speaker to be announced	9 December
16 décembre	A warm liquid calorimeter for UA1 Speaker to be announced	16 December

Sauf avis contraire, les séminaires auront lieu le lundi de 11.00 h à 12.00 h dans la Salle de Conférence EF, Bât. 13, 2-005.

Unless otherwise indicated, the seminars will take place on Mondays from 11.00 hrs to 12.00 hrs in the EF Conference Room, Bldg 13, 2-005.