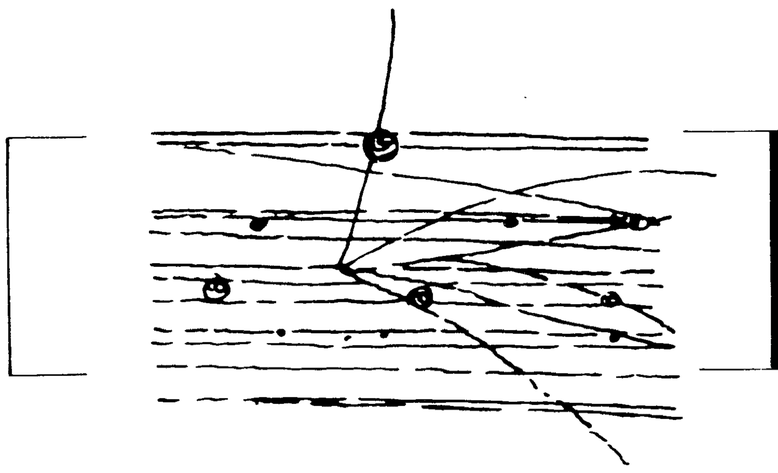

seminars

CERN PARTICLE PHYSICS SEMINAR

Tuesday, February 19
16.30
Auditorium

"Studies of 200 GeV π^- - p interactions"
by G. Trilling / CERN/University of California

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SPECIAL CERN SEMINAR

Thursday, February 14
14.30
Auditorium

"Test results from the NAL proportional wire chamber hybrid bubble chamber system"
by I. Pless/MIT

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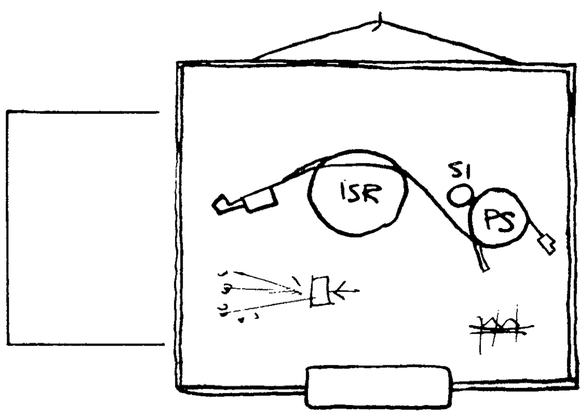
CERN COLLOQUIUM

Tuesday, February 12
16.30
Auditorium

"Observational paradoxes in Extragalactic Astronomy"
by J. Schneider/Observatoire de Paris, MEUDON

Abstract : Recent observations on the redshift of some extragalactic objects (galaxies, quasars) seem to enter in contradiction with the current scheme of the expanding Universe. These, still controversial, observations if they are confirmed, could lead as far as to the breakdown of present physical laws inside these objects.



enseignement

ACADEMIC TRAINING

Tuesday, February 12
14.00
Auditorium

"Introduction to reliability theory"
by B. Schorr
Lecture 3

next week

Tuesday, February 19
14.00
Auditorium

Lecture 4

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February 20,21,26,28
March 5,6
11.00
ISR Auditorium

"Particle Beams and Plasmas"
by J.D. Lawson / Rutherford Laboratory

Abstract :

1. What is a plasma? Characteristic parameters. Fluid model. Plasma in a box - sheaths. Magnetically confined plasma - pinch effect.
2. More general approach starting from distribution function in Γ space, and leading to Vlasov equation as a useful approximation (brief outline only !). Meaning of pressure and temperature in non-equilibrium situation, relation to fluid model described in (1). Illustration of concepts and viewpoints with reference to simple idealised models, accelerator beams.
3. Description of the essential features of several flows and beams in which collective forces are important (Brillouin flow, accelerator beam with strong space change, Bennett pinch, etc.). Further characteristic parameters.
4. Description of the method of finding self-consistent equilibria satisfying Vlasov-Maxwell equations, illustrated by two examples.