

WEDNESDAY 19 JULY

THEORETICAL SEMINAR

at 14.00 hrs - Auditorium

"The search for heavy quarks"

by S.L. Glashow/Harvard University

THURSDAY 20 JULY

ESO ASTROPHYSICS SEMINAR

at 14.00 hrs - DD Conference Room
Bldg 31 - 3rd floor

"Superclusters and Cosmic Luminosity"

by Guido Chincarini/University of Oklahoma

Abstract : Observational evidence is given of a clumpy distribution over sizes of 100 Mpc and an upper limit for the density of the so-called uniform field of galaxies. A rough estimate of the cosmic luminosity is given taking such observed distribution into account.

CERN PARTICLE PHYSICS SEMINAR

at 16.00 hrs - Auditorium (*)

"Hadron jets and evidence for parton-parton scattering"

by W. Selove/University of Pennsylvania

Abstract : High- p_T events in hadron collisions were studied with a two-arm calorimeter array. These events are found to be dominated by clusters-"jets". Two-jet events give direct evidence for scattering of constituents, and have been used to obtain information on the structure function of the pion.

(*) Note : Those attending this seminar are cordially invited to the Salle des Pas Perdus (just outside the Council Chamber) at 15.30 hrs to meet the speaker and for informal discussions. Tea and coffee will be provided.

FRIDAY 21 JULY

CERN COLLOQUIUM

at 16.00 hrs - Auditorium (*)

"Stellar evolution and supernova collapse"

by H. Bethe/Cornell University, presently at Niels Bohr Institute, Copenhagen

Abstract : The evolution of stars through the red giant stage is discussed. In the subsequent supernova collapse each material element behaves essentially adiabatically and has low entropy. At a density of about 10^{12} , neutrinos are trapped, which stops further conversion of protons into neutrons. Consequently, very few neutrons are released from nuclei, so nucleon pressure remains small and gravitational collapse continues. It stops only at densities well above nuclear density, whereupon a strong shock moves outward through the star. The problem of ejection of matter from the star remains unsolved.

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

SUMMER STUDENT LECTURES

This week :

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|---------|-------|--|
| 19.7. - | 8.30 | Opening session |
| | 10.00 | R. Carreras - "High energy physics in everyday language" |
| 20.7. - | 8.30 | G. Stevenson - "Radiation protection in accelerator environments" |
| | 10.00 | Ch. Peyrou - "The classic experiments which founded high energy physics" |
| 21.7. - | 8.30 | J. Allaby - "The role of CERN in European high energy physics" |
| | 10.00 | Ch. Peyrou - "The classic experiments which founded high energy physics" |

Next week :

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| 24.7. - | 8.30 | C. Curran - "Introduction to CERN's computing services" |
| | 10.00 | Ch. Peyrou - "The classic experiments which founded high energy physics" |
| 25.7. - | 8.30 | Z. Dimcovski - "Electronic detectors and nuclear instrumentation" |
| | 10.00 | Ch. Peyrou - "The classic experiments which founded high energy physics" |
| 26.7. - | 8.30 | Z. Dimcovski - "Electronic detectors and nuclear instrumentation" |
| | 10.00 | Ch. Peyrou - "The classic experiments which founded high energy physics" |
| | 11.15 | E. Burhop - "Search for short-lived particles from neutrino interactions in photographic emulsion, illustrating the logistics of experiments in high energy physics" |
| 27.7. - | 8.30 | Z. Dimcovski - "Electronic detectors and nuclear instrumentation" |
| | 10.00 | B. Heck - "Electronic detectors and nuclear instrumentation" |
| | 11.15 | V.F. Weisskopf - "Particles and symmetries" |
| 28.7. - | 8.30 | B. Heck - "Electronic detectors and nuclear instrumentation" |
| | 10.00 | E. Rimmer - "Electronic detectors and nuclear instrumentation" |
| | 11.15 | V.F. Weisskopf - "Particles and symmetries" |

All lectures will be given in English (though questions and/or comments in French are welcome), and will be held in the Main Auditorium.