

# SEMINARS SEMINAIRES

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## Monday 8 August

### EP SEMINAR

at 17.00 hrs – Auditorium

**The flux of free quarks in high energy cosmic radiation**

by B. McCusker / Univ. of Sydney

*The flux of free quarks in the cores of cosmic ray extensive air showers at sea level is estimated from four different types of experiment. All four estimates agree within the errors, giving a flux of  $8 \times 10^{-12}$  quarks  $\text{cm}^{-2}\text{s}^{-1}$ . The concentration of free quarks in the Earth's crust is calculated, assuming that this flux has been constant over the age of the Earth. It gives a value much lower than that obtained from the Stanford experiment on quarks in niobium. The discrepancy could possibly be due to geochemical concentration.*

## Tuesday 16 August

### CERN COLLOQUIUM

at 16.30 hrs - Auditorium

**Brain without mind; computer simulation of dynamic neural networks**

by John W. CLARK / Washington Univ., St. Louis

## Thursday 18 August

### CERN COLLOQUIUM

at 16.30 hrs - Auditorium

**Time as a dynamical variable and discrete mechanics**

by T. D. LEE / Columbia Univ.

## TRAINING AND EDUCATION ENSEIGNEMENT

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### SUMMER STUDENT LECTURES

*This week :*

#### Extra lecture

11.8 - 14.30 V.F. WEISSKOPF – Reminiscences of the old days in physics

*Next week*

16.8 – 08.30 D. TREILLE – Search for nucleon decay, magnetic monopoles, neutrino oscillations (1)

10.00 W. SCHLATTER –  $e^+e^-$  physics (1)

11.15 V.F. WEISSKOPF – Physics and Society

17.8 – 08.30 D. TREILLE – Search for nucleon decay, magnetic monopoles, neutrino oscillations (2)

10.00 W. SCHLATTER –  $e^+e^-$  physics (2)

11.15 J. CRONIN – Neutral K mesons and CP violation

18.8 – 08.30 Student Session

10.00 W. SCHLATTER –  $e^+e^-$  physics (3)

11.15 –

19.8 – 08.30 –

10.00 W. SCHLATTER –  $e^+e^-$  physics (4)

11.15 –

All lectures are held in the Auditorium and given in English.

Fellows and Associates Service/4471.