PROGRAMME

Tuesday, March 2, 1993

Chairman: **F. Reines** (Univ. of California, Irvine)

9.30 **D.W. Sciama** (SISSA)

Opening Address

NEUTRINOS AND STANDARD MODEL

9.40 **R. Barbieri** (Univ. of Pisa)

Test of the Standard Model and Implications for Neutrino Physics

10.20 **S.T. Petcov** (SISSA)

Neutrinos Beyond the Standard Model

11.00 **C o f f e e B r e a k**

Chairman: **D. Haidt** (DESY)

SPECULATIONS ON NEUTRINO PHYSICS FOR THE FUTURE

11.30 **B. Barish** (CALTECH)

What we do not know about Neutrino Physics

12.10 **F. Vannucci** (LPNHE, Univ. of Paris VI)

Neutrino Physics at New Accelerators

12.40 **G. Fiorentini** (Univ. of Ferrara)

New Neutrino Interactions and Long Baseline Neutrino Experiments

13.00 **L u n c h**

Chairman: **V.A. Matveev** (INR, Moscow)

SOLAR NEUTRINOS

14.30 **A. Suzuki** (KEK, Ibaraki)

Recent Results from Kamiokande

15.10 **R. Bernabei** (Univ. of Rome II)

Status Report on GALLEX Experiment

15.40 **R.S. Raghavan** (Bell Labs, Murray Hill)

Future Solar Neutrino Experiments: A Critical Review

16.30 **C o f f e e B r e a k**

Chairman: **P. Monacelli** (Gran Sasso Lab)

17.00 **E. Gavryuseva** (INR, Moscow)

The Sun as a Source of Questions and Answers

17.30 **G.L. Fogli** (Univ. of Bari)

Problems Related to Solar Neutrinos

17.50 **Z. Berezhiani** (Univ. of Ferrara)

Matter Induced Neutrino Decay - New Candidate for the Solution to the Solar Neutrino Problem

18.10 **G.T. Zatsepin** (INR, Moscow)

A Solar Neutrino Experiment Using Lithium

18.30 **E. Fiorini** (Univ. of Milan)

A New Project for Solar Neutrinos

18.45 **G. Bonvicini** (CERN)

Hellaz, A High Rate Solar Neutrino Detector with Neutrino Energy Resolution

19.00 **E n d o f t h e S e s s i o n**

20.00 **C o n c e r t**

21.30 **I n f o r m a l W e l c o m e P a r t y**

Wednesday, March 3, 1993

Chairman: **A. Morales** (Univ. of Zaragoza)

NEUTRINOS FROM THE SUN, SUPERNOVAE, ETC.

9.00 **F. Pacini** (Univ. of Florence)

Supernovae and Other Possible ν Sources

9.30 **O.G. Ryazhskaya** (INR, Moscow)

Search for Neutrinos from Collapsing Stars on LVD

9.50 **F. Boehm** (CALTECH)

An Update on the San Onofre Project

10.10 **R.I. Steinberg** (Dexel University, Philadelphia)

Chooz and Perry: New Projects for Long Baseline Reactor Neutrino Oscillations

10.30 **C o f f e e B r e a k**

Chairman: **J. Schneps** (Tufts University)

ATMOSPHERIC NEUTRINOS

11.00 **P.J. Litchfield** (Rutherford Lab)

New Experimental Results on Atmospheric Neutrinos from SOUDAN II

11.40 **T. Stanev** (Univ. of Delaware)

Atmospheric Neutrinos

12.20 **P. Vogel** (CALTECH)

Atmospheric Neutrinos and Nuclear Interactions

13.00 **L u n c h**

Chairman: **H. Sobel** (Univ. of California, Irvine)

HIGH AND VERY HIGH ENERGY NEUTRINOS

14.30 **E. Bellotti** (Univ. of Milan)

High Energy Neutrino Detectors

15.10 **F. Ronga** (LNF, Frascati)

High Energy Neutrinos in MACRO

15.30 **R. Wischnewski** (DESY, Zeuthen)

Results from the Lake Bajkal Neutrino Telescope

15.50 **R.M. Morse** (Univ. of Wisconsin, Madison)

Results from AMANDA

16.10 **L. Resvanis** (Univ. of Athens)

Results from NESTOR

16.30 **C o f f e e B r e a k**

Chairman: **A. Bottino** (Univ. of Turin)

MASSIVE NEUTRINOS AND DARK MATTER

17.00 **E. Akhmedov** (SISSA)

Are True Neutrino-Antineutrino Oscillations Possible?

17.20 **S. Bilenky** (JINR, Dubna and Univ. of Turin)

$\nu_\mu \to \nu_\tau$ *Oscillations*

17.35 **A. Hime** (Los Alamos Lab)

The 17 KeV Neutrino

18.00 **D.B. Cline** (UCLA)

Search for Signals from Primordial Black Holes

18.20 **L. Moscoso** (CEN-Saclay)

Baryonic Dark Matter: A Review

18.50 **C. De Marzo** (Univ. of Bari)

Antimatter in Cosmic Rays: The WIZARD Research Programme

19.10 **E n d o f t h e S e s s i o n**

Thursday, March 4, 1993

Chairman: **W.F. Fry** (Univ. of Wisconsin, Madison)

POTENTIAL ASTROPHYSICAL NEUTRINO SOURCES

9.00 **L.M. Krauss** (Yale University)

Dark Matter and Galaxy Formation in the Light of COBE Results

9.45 **W. Kluzniak** (Univ. of Wisconsin, Madison)

Neutrinos, Neutron Stars and Gamma Ray Bursters

10.30 **C o f f e e B r e a k**

Chairman: **F. Halzen** (Univ. of Wisconsin, Madison)

POTENTIAL ASTROPHYSICAL NEUTRINO SOURCES

11.00 **M.C. Begelman** (Univ. of Colorado, Boulder)

AGN and Neutrino Physics

11.40 **C. Dermer** (NR Lab, Washington)

Gamma Ray Observatory Results on High Energy Emission from Active Galactic Nuclei

12.20 **F.W. Stecker** (NASA, Goddard Space Flight Center)

High Energy Neutrino and Gamma-Ray Backgrounds from Active Galaxies and Quiasars

13.00 **L u n c h**

14.30 **Round Table**: *New Imaginative Detectors for New Neutrino Physics*

Coordinator: **V. Rubakov** (INR, Moscow)

F. Boehm, D.B. Cline, W.F. Fry, F. Halzen, L. Resvanis, H. Sobel, F.W. Stecker, A. Suzuki, T. Ypsilantis

17.30 **C o f f e e B r e a k**

Chairman: **L. Maiani** (Univ. of Rome)

18.00 **L.B. Okun** (ITEP, Moscow)

Neutrinos: An Overview

19.00 **End of the Session**

20.30 **Conference Dinner**