

WORKSHOP PROGRAM

March 27, 1978

PHYSICS WITH \bar{p} INTERACTIONS

Morning Chairman: H. Grunder

- 9:00 a.m. Welcome..... A. M. Sessler
- 9:05 a.m. Colliding Beams and Beam Cooling
at Fermilab..... R. R. Wilson
- 9:20 a.m. Use of \bar{p} Machines to Explore Very
High Energy Interactions..... C. Rubbia
- 10:20 a.m. Coffee Break
- 10:40 a.m. Expectations for Ultrahigh Energy
Interactions..... R. Feynman
- 11:40 a.m. Study of Weak Interaction and Electro-
magnetic Processes with High Lumi-
nosity \bar{p} Machines..... D. Cline
- 12:30 p.m. Lunch

BEAM COOLING "PLANNED" \bar{p} MACHINES

Afternoon Chairman: D. Cline

- 1:45 p.m. The Effects of Beam Cooling on Accelerator-
Storage Ring Developments..... A. Sessler
- 2:00 p.m. Electron Cooling Theory and Devices..... F. Mills
- 3:00 p.m. Coffee Break
- 3:20 p.m. Stochastic Cooling Theory and Devices... S. Van der Meer
- 4:15 p.m. CERN SPS Used as \bar{p} Collider..... R. Billinge
- 4:45 p.m. TEVATRON Used as \bar{p} Collider..... L. Teng
- 5:15 p.m. ISABELLE as a \bar{p} Collider..... B. Palmer
- 5:45 p.m. Wine Tasting, LBL Cafeteria

March 28-30, 1978 - WORKING SESSIONS

March 31, 1978 - SUMMARY SESSION

- 9:00 a.m. Large Acceptance Cooling Rings..... F. Mills
- 9:30 a.m. \bar{p} Production Characteristics and
Collection Systems..... D. Cline

ELECTRON BEAM COOLING

- 9:50 a.m. Status of Theory..... E. Courant
- 10:10 a.m. Prospects of Ribbon-Type e-Beams..... F. Krienen

March 31, 1978 - SUMMARY SESSION (continued)

STOCHASTIC COOLING

| | | |
|------------|---|------------------|
| 10:30 a.m. | Theory of dc and Bunched Beams..... | F. Sacherer |
| 10:50 a.m. | Hardware/Diagnostics/Amplifiers..... | G. R. Lambertson |
| 11:10 a.m. | Discussion | |
| 11:30 a.m. | Detectors; Relation of Detectors to $p\bar{p}$ Machines..... | G. Salvini |
| 11:50 a.m. | Luminosity Limitations and Instabilities in Storage Rings..... | L. Teng |
| 12:15 p.m. | Cooling of High Energy Beams with Electrons..... | P. McIntyre |
| 12:45 p.m. | Discussion | |
| 1:00 p.m. | Lunch | |

INTRODUCTION

