

530
STA
1982

22.33

AIP Conference Proceedings

Series Editor: Hugh C. Wolfe

Number 92

The State of Particle Accelerators and High Energy Physics

(Fermilab Summer School, 1981)

Editors

R. A. Carrigan, Jr.

Fermilab

F. R. Huson

Fermilab

M. Month

DOE

American Institute of Physics
New York 1982

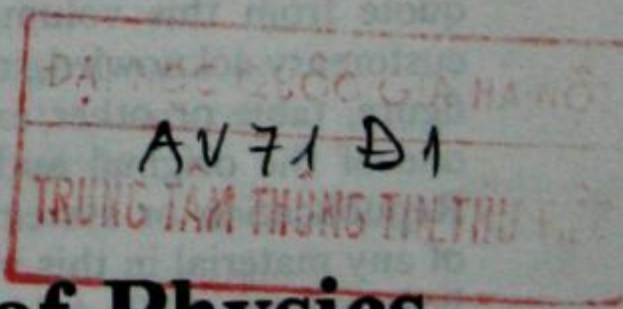


TABLE OF CONTENTS

High-Energy Physics - Where We Are and Where We Are Going.....	1
L. Lederman	
What Can We Expect From Future Accelerators.....	13
W. K. H. Panofsky	
2020 Vision: Accelerator Physics in the Long Range Future.....	25
J. D. Bjorken	
The SLAC Linear Collider	
The Machine, The Physics, And the Future.....	43
B. Richter	
LEP, the Next and Final Electron-Positron Ring.....	79
U. Amaldi	
Electron-Proton Colliders.....	101
B. H. Wiik	
Physics Potential of ISABELLE, A High Luminosity pp Collider.....	139
N. P. Samios	
Proton-Antiproton Collisions.....	151
C. Rubbia	
Physics at PETRA.....	211
B. H. Wiik	
High-Intensity Accelerators.....	279
E. A. Knapp	
U. S. Particle Accelerators: an Historical Perspective.....	297
R. R. Wilson	

HIGH-ENERGY PHYSICS - WHERE WE ARE AND WHERE WE ARE GOING

L. Lederman

Fermi National Accelerator Laboratory, Batavia, Illinois 60510

TABLE OF CONTENTS

High-Energy Particle Theory.....	3
Accelerators.....	6
Instruments.....	8
Sociology.....	8
References.....	12

0094-243X/82/920001-12\$3.00 Copyright 1982 American Institute of Physics