

INTRODUCTION

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The 1963 Summer Study was organized to provide background information that could serve as a guide in planning Brookhaven's future program in high-energy physics. A group of about 40 visitors from the United States and abroad was comprised of roughly equal numbers of high-energy physicists and accelerator physicists. A similar number of Brookhaven staff members took an active part in the study.

Nineteen formal sessions were held during the six weeks of the study. This volume is a compilation of the minutes of the sessions, to which we have added several contributed papers. The onerous task of editing these proceedings has been ably supervised by Dr. J.W. Bittner.

The discussion during the summer study centered on objectives and techniques of experimentation at high center-of-mass energies using either colliding beams or super-energy accelerators. Also a great deal of interest was expressed in possible increase in intensity of existing and proposed accelerators. This raised attendant questions about space-charge limits, intensity-dependent beam instabilities and residual radioactivity. Papers on these and other associated topics will be found in the proceedings.

The summer study was attended by the following:

L.C. Teng	Argonne National Laboratory
S.C. Frautschi	California Institute of Technology
J.R. Rees	Cambridge Electron Accelerator
E.H.S. Burhop	CERN
A. Schoch	
R.H. Dalitz	University of Chicago
R. Levi Setti	

L.M. Lederman	Columbia University
M. Schwartz	
R. Serber	
J. Steinberger	
E.C. Fowler	Duke University
B.F. Touschek	Frascati
P.G. Kruger	University of Illinois
A.I. Yavin	
D. Keefe	Lawrence Radiation Laboratory
L.J. Laslett	
D.H. Miller	
A.M. Sessler	
G.B. Yodh	University of Maryland
I.A. Pless	Massachusetts Institute of Technology
W.R. Frisken	McGill University
L.W. Jones	University of Michigan
K.M. Terwilliger	
M. Bernde	Midwestern Universities Research Association
F.T. Cole	
C.D. Curtis	
G. del Castillo	
A. Galonsky	
F.E. Mills	
E.M. Rowe	
M.F. Shea	
I. Sviatoslavsky	
D.A. Swenson	
B. Waldman	
H. Bruck	Orsay
G. Gendreau	
G.K. O'Neill	Princeton University
A. Melissinos	University of Rochester
B. Thevenet	Saclay
W.D. Walker	University of Wisconsin
W.A. Wallenmeyer	U.S. Atomic Energy Commission
V.W. Hughes	Yale University

Members of the Brookhaven Accelerator and Physics Department  
staffs and summer visitors.