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Current Induced Reactions

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Theoretical Particle Physics in
Hamburg 1975

Edited by J. G. Körner, G. Kramer, and D. Schildknecht



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PREFACE

In this Volume of the Lecture Notes in Physics we present the Proceedings of the 1975 International Summer Institute on Theoretical Physics held at the Deutsches Elektronen-Synchrotron DESY in Hamburg. This Institute was the seventh in a series of summer schools devoted to particle physics and organized by universities and research institutes in the Federal Republic of Germany.

The topic of the summer school has been "Current Induced Reactions" with particular emphasis on the physics of the new particles which had just been discovered during the preceding year. The summer institute included lectures on the experimental situation as well as the theoretical interpretation of neutrino induced and electron induced reactions in the space- and/or time-like regions. Quite naturally, theories based on quarks had a prominent place.

The present volume contains the notes of fourteen lectures as prepared by the authors. The lectures by Dr. G. Wolf (DESY) "Recent Experimental Results on e^+e^- Annihilation with Emphasis on the New Particles" and Dr. J. von Krogh (University of Wisconsin) "Neutrino Interactions-Experimental Results" were not available at the time of printing. The editors were responsible for preparing the manuscripts for print. In this connection we gratefully acknowledge the assistance of Frau Fischer and W. Knaut. Special thanks go to Frau Stuckenberg, Fräulein Laudien, Frau Schmöger, Frau Siemer and Frau Platz for their excellent typing of the manuscripts.

The Institute took place at the Deutsches Elektronen-Synchrotron DESY. On behalf of all the participants we thank the officials and the administration of this institution for their cooperation and help before and during the Institute.

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