

Particle Physics

Cargèse 1985

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Cargèse 1985

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PREFACE

The 1981 Cargèse Summer Institute on Fundamental Interactions was organized by the Université Pierre et Marie Curie, Paris (M. LEVY and J-L. BASDEVANT), CERN (M. JACOB), the Université Catholique de Louvain (D. SPEISER and J. WEYERS), and the Kotholieke Universiteit te Leuven (R. GASTMANS), which, since 1975 have joined their efforts and worked in common. It was the 24th Summer Institute held at Cargèse and the 8th one organized by the two institutes of theoretical physics at Leuven and Louvain-la-Neuve.

The 1985 school was centered around two main themes : the standard model of the fundamental interactions (and beyond) and astrophysics.

The remarkable advances in the theoretical understanding and experimental confirmation of the standard model were reviewed in several lectures where the reader will find a thorough analysis of recent experiments as well as a detailed comparaison of the standard model with experiment. On a more theoretical side, supersymmetry, supergravity and strings were discussed as well.

The second theme concerns astrophysics where the school was quite successful in bridging the gap between this fascinating subject and more conventional particle physics.

We owe many thanks to all those who have made this Summer Institute possible !

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We wish to thank Miss M-F. HANSELER, Mrs ALRIFRAÏ, Mr and Mrs ARIANO, and Mr BERNIA and all others from Paris, Leuven, Louvain-la-Neuve and especially Cargèse for their collaboration.

We thank Miss B. CHAMPAGNE, and Mrs D'ADDATO for typing the manuscript, and Mr. H. GILSON, M. LAMBIN and P. RUELLE for their help in correcting the proofs.

Mostly however, we would like to thank all lecturers and participants the willingness of the former to answer all questions and the keen interest of the latter provided the stimulus which made (we hope) this institute a success.

D. SPEISER
R. GASTMANS
J. WEYERS
M. LEVY
J-L. BASDEVANT
M. JACOB

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