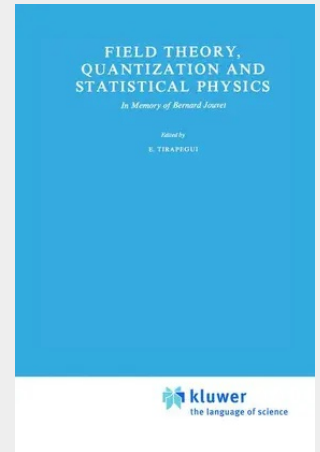


Field Theory, Quantization and Statistical Physics

In Memory of Bernard Juvet

It is with great emotion that we present here this volume dedicated to the memory of Bernard Juvet, Docteur es Sciences, Directeur des Recherches at the Centre National pour la Recherche Scientifique. The life and the career as a physicist of Professor Juvet are evoked in the following pages by Professor F. Cerulus, a friend of long standing of Professor Juvet. The contributions have been written by physicists who were friends, collaborators or former students of Professor Juvet. I express here my gratitude for their contributions. I wish also to thank Mrs. France Juvet for her kind help in the realization of this book. Without her support this would have been impossible. I am also especially indebted to Professor M. Flato for his constant encouragement and kind cooperation, and to F. Langouche and D. Roekaerts for their generous help in the preparation of this volume. E. TIRAPEGUI TABLE OF CONTENTS FOREWORD VII BIOGRAPHICAL SKETCH XIX LIST OF SELECTED SCIENTIFIC PUBLICATIONS PART ONE: FIELD THEORY AND QUANTIZATION C. BECCHI, A. ROUET and R. STORA/Renormalizable Theories with Symmetry Breaking 3 J. CALMET and A. VISCONTI/Computing Methods in Quantum Electrodynamics 33 GERARD CLEMENT/Classical Mechanics of Autocomposite Particles 59 s. DESER/Exclusion of Static Solutions in Gravity-Matter Coupling 77 D. ARNAL, J. C. CORTET, M. FLATO and D. STERNHEIMER/ Star-Products: Quantization and Representations without Operators 85 R. GASTMANS/High Energy Tests of Quantum Electrodynamics 113 L. GOMBEROFF and E. K.

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