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Time-Dependent Hartree-Fock and Beyond

Proceedings of the International Symposium
Held in Bad Honnef, Germany, June 7–11, 1982

Edited by K. Goeke and P.-G. Reinhard



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PREFACE

The present proceedings contain the talks of the International Symposium on "Time Dependent Hartree-Fock and Beyond" which was held in Bad Honnef (Bonn), June 7-11, 1982. The conference was organized by the Institut für Kernphysik, Kernforschungsanlage Jülich, and the Institut für Kernphysik, Universität Mainz.

The Symposium was concerned with the microscopic description of large amplitude nuclear collective motions. In a series of lectures and seminars, discussions were held on the present status of time dependent Hartree-Fock and the various ways to go beyond it. These included Monte Carlo methods, the formulation of reaction theories, incorporation of collision terms, evaluation of correlations and dispersion, use of path integral formalisms, extraction of quantized collective Hamiltonians, and related subjects.

On behalf of the organizing committee we gratefully acknowledge the generous financial support of the Stiftung Volkswagenwerk and the Kernforschungsanlage Jülich.

The organization of the conference would not have been possible without the tireless effort of many members of both host institutions and the staff of the Physikzentrum in Bad Honnef. Particular thanks are due to Ms M. Heese, KFA, and Dr. J. Debrus, Physikzentrum, for their enthusiasm and efficient handling of all the tasks necessary to keep the conference running smoothly.

Jülich/Mainz, August 20, 1982

K. Goeke

P.-G. Reinhard

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