Neutron Induced Reactions

SLOVAK ACADEMY OF SCIENCES

**Institute of Physics, Electro-Physical Research Centre
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NEUTRON INDUCED REACTIONS

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Edited by

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PREFACE

The Fourth International Symposium on Neutron Induced Reactions was held at the Smolenice Castle, Czechoslovakia, June 17–21, 1985.

It was sponsored by the European Physical Society and the Union of Slovak Mathematicians and Physicists.

The primary aim of the Symposium was to provide space for reports on developments in the field of nuclear reaction theory, studies of decay of unbound nuclear states excited by simple projectile as well as on methodical and instrumental progress in the low energy nuclear physics.

Ample time was deliberately reserved for discussions and the exchange of ideas among the participants.

Two committees have been involved in organizing the Symposium: the International Advisory Committee has been advising on topics and selection of speakers and the Organizing Committee has taken a burden of usual daily work.

The members of both committees are listed below.

The International Advisory Committee:

H. H. Barschall (USA), H. Feshbach (USA), J. Formánek (Czechoslovakia), I. M. Frank (USSR), E. Gadioli (Italy), M. K. Mehta (India), S. Raman (USA), I. Ribanský (Czechoslovakia), D. Seeliger (GDR), C. Wagemans (Belgium), H. A. Weidemüller (FRG), Z. Wilhelmi (Poland).

The Organizing Committee:

R. Antalík, E. Běták, Š. Gmuca, S. Hlaváč, J. Krištiak (Secretary), Š. Luby, P. Obložinský, J. Pivarč, I. Ribanský, J. Šácha (all from the Institute of Physics, Electro-Physical Research

Centre of the Slovak Academy of Sciences, Bratislava), J. Dobeš (Institute of Nuclear Physics, Řež near Prague), I. Wilhelm (Charles University, Prague).

The Symposium was organized in seven sessions with 13 invited talks and 11 orally presented short contributed papers. Three poster sessions have been arranged so that all other contributed papers could be presented as posters. The chairmen of the sessions, M. K. Mehta, R. E. Chrien, I. Ribanský, H. A. Weidenmüller, C. Wagemans, V. G. Soloviev, J. Rapaport, were excellent in their guidance of the discussions which were, in many cases, very lively.

These Proceedings contain texts of almost all papers presented at the Symposium. Unfortunately, it came that all manuscripts had to be edited and retyped. They were carefully compared with originals, however, such a procedure is not guaranteed to be an error-free one and we ask an excuse for occurred errors. We also take opportunity to redraw some of the figures.

In this book, the papers have been grouped by subject in somewhat different order from that in the conference programme.

The major credit for the success of the Symposium goes to all the speakers for their stimulating and excellent talks and to attendance for their active participations in the discussions and social events.

Anyone (including us) who thinks that planning and running a conference is entertainment is relieved of this fancy by actually running it. Therefore, we want to thank the members of the International Advisory Committee for their support and help. We should like to acknowledge the work of the members of the Organizing Committee, who cared for transportations, technical aids and poster sessions.

From early stages of the Symposium its secretaries Miss E. Kubincová and Mrs. D. Strapcová dedicated a sizeable fraction of their time to organization. We highly appreciate them for their competence and charm.

Once more, many thanks to all those who made everything run smoothly.

Bratislava, August 30, 1985

J. Krištiak, E. Běťák