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INTERNATIONAL NUCLEAR DATA COMMITTEE

Summary Report of the
1st Research Coordination Meeting on

**“Nuclear Model Parameter Testing for Nuclear Data Evaluation”
(Reference Input Parameter Library: Phase II)**

IAEA Headquarters
Vienna, Austria
25 - 27 November 1998

Prepared by
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February 1999

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Abstract

The report describes findings and conclusions of the 1st Research Coordination Meeting on Nuclear Model Parameter Testing for Nuclear Data Evaluation (Reference Input Parameter Library: Phase II). In particular, a critical review of the RIPL Starter File was performed, and a detailed scope and workplan of the RIPL-II project were prepared.

February 1999

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1. Summary of the Meeting

Objectives and Participation

The 1st Research Co-ordination Meeting (RCM) on “Nuclear Model Parameter Testing for Nuclear Data Evaluation (Reference Input Parameter Library: Phase II)” was held at the IAEA Headquarters in Vienna, Austria, from 25 to 27 November 1998.

The purpose of the meeting was to work out a detailed scope and working plan of the Coordinated Research Project (CRP), including tasks and responsibilities of participating laboratories, and agree on future coordination procedures. Phillip G. Young of the Los Alamos National Laboratory, U.S.A., was elected as the chairman of the CRP and served as the chairman of the meeting. The detailed Agenda is attached (see Appendix 1).

The meeting was attended by chief scientific investigators of six out of seven laboratories participating in the project, and by two cost-free observers. The participating laboratories were represented by T. Belgya (Budapest, Hungary), O. Bersillon (Bruyères-le-Châtel, France), R. Capote Noy (Habana, Cuba), T. Fukahori (Ibaraki-ken, Japan), A.V. Ignatyuk (Obninsk, Russia), P.G. Young (Los Alamos, U.S.A.). Furthermore, S. Goriely (Brussels, Belgium) and V. Maslov (Minsk, Belarus) attended as observers. For the full list including affiliations see Appendix 2.

Main Conclusions and Recommendations

It was concluded that the Phase I of the development of the Reference Input Parameter Library, conducted during 1994-1997, produced valuable results. In particular, timely completion and release of the RIPL Starter File (Web and CD-ROM) in May 1998, followed by publishing the RIPL Handbook (TECDOC-1034) in August 1998 were appreciated.

The meeting recommended to proceed with the Phase II of the RIPL project as originally planned. To this end, a detailed scope and workplan of the CRP were prepared. The CRP should be completed by the end of 2001, with the official release of the library in spring 2002.

The 2nd RCM is scheduled for spring 2000. T. Fukahori indicated that JAERI might be willing to host the meeting.

2. Objectives of the CRP

Objectives of the CRP as defined by the IAEA were explained by the Scientific Secretary of the project. In particular, the purpose of this new CRP is:

- to produce an internationally recognized library of input parameters for nuclear model calculations of nuclear reaction data for applications,
- to test thoroughly all segments of the Starter File of the Reference Input Parameter Library, focusing on optical model parameters and nuclear level density parameters,