

A report on Asian Nuclear Data Workshop 2011

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Abstract

Asian Nuclear Data Workshop 2011 was held on November 10-12, 2011, in order to discuss the future Asian collaborations of nuclear reaction data activities.

1 Introduction

For the past decade, applications of nuclear data on all areas of nuclear science and technology have grown in depth, covering energy applications as well as non-energy applications and basic research and education. New applications for nuclear data are developed and are used in science and engineering for various charged-particle induced nuclear reactions.

The workshop was mainly focused on strengthening collaboration between nuclear reaction data centres in Asia and promote the related activities. Accordingly, the previous workshops on nuclear data were held at Sapporo, Japan in October 2010 and at Beijing, China in September 2011. In addition, the Asian Nuclear Data Workshop 2011 held in November 10-12, 2011, was organized by Nuclear Reaction Data Centre (JCPRG), Hokkaido University, as one of the programs supported by Japan Society for the Promotion of Science (JSPS).

2 Objectives

The objectives of the workshop were:

- to exchange ideas and knowledge between nuclear data services,
- to promote cooperation between the nuclear data centres in Asian countries, and
- to encourage the wider and more effective use of the nuclear data services on the internet.

The one of main topics was demonstrations and developments of web-based software for nuclear reaction databases in some countries where the nuclear data centre are not available, for instance Mongolia, Kazakhstan.

3 Participants

Group photo of all of the participants is shown in Fig. 1. Participants attending this workshop were from four Asian countries: India, Kazakhstan, Korea and Japan. The speakers included 7 scientists, several JCPRG staff members and non-members.



Fig. 1: Participants of the workshop

4 Contents

The programme of the workshop is shown in Table 1. The workshop started with opening ceremony at Nuclear Reaction Data Centre (JCPRG) of Hokkaido University. The invited speakers which are six in number (including 2 members from Hokkaido University) gave a short speech. After the ceremony, four invited speaker gave presentation of about 30 minutes.

On the second day, the workshop started with the talk by an invited speaker, Prof. T. Fukahori (JAEA). After his presentation, Prof. H. Sakurai (Tokyo Univ.) and Prof. M. Aikawa (Hokkaido Univ.) presented their talk.

In the evening session there were discussions about further development of Asian collaboration. The discussions were about:

- the third Asian Nuclear Reaction Database Development Workshop,
- extension of collaboration among Asian countries (with and without nuclear data centres),

- software developments for nuclear reaction databases, and
- budgets for sustainable collaboration.

The closing remark was given by Prof. K. Kato (Hokkaido Univ.).

5 Summary

Asian Nuclear Data Workshop 2011 was held on November 10-12, 2011. It was attended by 30 participants from India, Kazakhstan, Korea and Japan. The discussion was on further development of Asian collaboration and to enable valuable exchange of ideas and experiences.

Acknowledgement

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Table 1: Programme

Nov. 10	
13:00-14:00	OPENING CEREMONY M. Yamashita (Hokkaido University, Japan) M. Aikawa (Hokkaido University, Japan) S. Ganesan (Bhabha Atomic Research Centre, India) Y. O. Lee (Korea Atomic Energy Research Institute, Korea) T. Fukahori (Japan Atomic Energy Agency, Japan) H. Sakurai (University of Tokyo, Japan)
14:00-15:00	WORKSHOP 1: Asian activities 1 Perspectives, Challenges and Fascinations in Nuclear Data Physics S. Ganesan (Bhabha Atomic Research Centre, India) Recent Progress of Nuclear Data Evaluation Activities in Korea Y. O. Lee (Korea Atomic Energy Research Institute, Korea)
15:00-15:30	Registration & Coffee break
15:30-16:30	WORKSHOP 2: Asian activities 2 Status of Nuclear Data Measurements in Korea G. Kim (Kyungpook National University, Korea) Reactions and Effects In Few-Body Systems are Important For Astrophysics N. Takibayev (Kazakh National Pedagogical University, Kazakhstan)
18:00-20:00	WELCOME PARTY
Nov. 11	
10:30-12:00	WORKSHOP 3: Japanese activities Roles of JAEA in Developments of Asian Nuclear Data Center Network T. Fukahori (Japan Atomic Energy Agency, Japan) RIKEN RI Beam Factory "to mass-produce nuclear data" H. Sakurai (University of Tokyo, Japan) Current Status and Future Plans of Nuclear Reaction Data Centre (JCPRG) M. Aikawa (Hokkaido University, Japan)
12:00-14:00	LUNCH
14:00-17:00	DISCUSSION: for further development of Asian collaboration
17:00	CLOSING REMARKS K. Kato (Hokkaido University, Japan)
Nov. 12	
9:00-18:00	EXCURSION