

ORGANISATION FOR ECONOMIC COOPERATION AND DEVELOPMENT
NUCLEAR ENERGY AGENCY NUCLEAR DATA COMMITTEE (NEANDC)

Specialists' Meeting on the Use of the Optical Model
for the Calculation of Neutron Cross Sections below 20 MeV

(13th to 15th November 1985 at OECD, Château de la Muette, Paris)

FIRST CIRCULAR

Scope of the Meeting

This meeting is recommended by the NEANDC (Nuclear Energy Agency Nuclear Data Committee) as a follow-up of a previous specialists' meeting held in Paris (November 1981) on "Fast neutron Scattering on Actinide Nuclei". The proceedings of the 1981 meeting were published as a report under the reference "NEANDC-158U, OECD, Paris 1982".

In this second meeting, it is intended to assess in a broader way the current status of the practical aspects of the Optical Model. The aspects which are considered include essentially the use of this model for calculating cross sections for neutron-induced reactions of interest in the nuclear energy field. The neutron energy ranges from 0 to 20 MeV, this upper limit being adopted for most evaluated nuclear data files used in the nuclear energy programs. Nuclei with mass numbers greater than $A = 20$ only will be considered with particular emphasis on nuclei present in structural materials, fission products and actinides.

Other applications such as reactions induced by particles different from nucleons (for example: alpha particles, heavy ions, etc...) will be discarded.

Date and location

This meeting is scheduled for three full days (13th to 15th November 1985) at OECD Headquarters in Paris.

Organisation

The meeting will be organised by the Nuclear Energy Agency of the OECD.

The scientific programme is placed under the responsibility of a programme committee composed of:

A. Michaudon (Chairman), J. Salvy (Vice-Chairman), F. Dietrich, P. Hodgson, A.B. Smith.

Programme

The meeting is planned to last three full days from Wednesday, 13th November at 9.00 h. to Friday, 15th November at 17.00 h. It is expected that the participants will attend the whole meeting since the conclusions and recommendations will be made at the end. Taking into account transportation time between Paris and the airports (Roissy or Orly), it means that the participants should plan to leave Paris at 20.00 h. on Friday, 15th November at the earliest.

A provisional programme is given in appendix 1.

All Review Papers will be presented in the first part of the meeting. Each talk is scheduled to last either 50 minutes or 25 minutes, followed by a discussion of 10 respectively 5 minutes at the most. An abstract of the invited talks is expected by 15th September. Copy of the correspondence should be sent for information to the Programme Committee Chairman and Vice-Chairman and NEA Data Bank.

Contributed papers of 10 to 15 minutes each may be presented on Friday, 15th November during a two-hour session. Those who plan to make such a presentation are kindly requested to send the title and an abstract of their talks to the Programme Committee Chairman, Vice-Chairman and NEA Data Bank before 15th September.

Detailed discussions of Tools used in neutron cross-section calculations, and Specific optical-model parameterisations will take place during the two workshops which will be held simultaneously in two separate rooms. These rooms will be equipped with projection facilities (transparencies and slides).

Chairpersons of the various sessions will be appointed in due time.

Participation

It is planned to have a maximum number of about 45 participants including scientists from non-OECD countries. Nominations to attend must be channeled through the NEANDC members in your country, or for non-OECD countries, through the Nuclear Data Section of IAEA, Vienna, Austria. All participants are kindly requested to fill in the form (Appendix 2) and return it as soon as possible to C. Nordborg and J. Salvy.

Visits of facilities around Paris (Saclay, Bruyères-le-Châtel, etc. can be arranged upon request on Tuesday, 12th November. In order to enter the C.E. Bruyères-le-Châtel, non-French participants should fill in a form (Appendix 3) and return it to J. Salvy before 15th October.

Proceedings

OECD plans to issue Proceedings of the meeting. The Proceedings will include:

- the text of the invited papers. Their presentation should conform to the instructions given. The authors are also asked to supply the organisers with the final version of their text, in a form ready for camera reproduction, at the meeting.

- the conclusions and recommendations.
- the texts of contributed papers if the authors wish to do so. In such a case, the authors are asked to come to the meeting with their contribution, presented in the same manner as for the invited papers but with a length limited to two pages at most.

Sheets of paper for typing the texts will be mailed by OECD upon request. Typing instructions are given in Appendix 4.

APPENDIX 2

ORGANISATION FOR ECONOMIC COOPERATION AND DEVELOPMENT

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PARTICIPANT REGISTRATION FORM

To be sent, before 15 October 1981, after official nomination to NEA Secretariat by national delegates to NEANDC, one copy each to :

Dr. C. Nordborg
NEA Data Bank
91191 Gif-sur-Yvette CEDEX
France

Mr. J. Salvy
Service Physique Nucléaire
Centre d'Etudes de Bruyères-le-Châtel
B.P. 561
92541 Montrouge CEDEX, France

Family name.....

Forename(s).....

Title or function.....
(Ms, Mr, Dr, Prof.)

Institute, organisation or company (full address).....

.....
.....

Telephone.....Telex.....Telegrams.....

Address for correspondence (if different from above).....

.....
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Telephone.....Telex.....Telegrams.....

Do you wish to contribute a paper?.....

Title of contribution and authors.....

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APPENDIX 3

C.E.A.
Service de Physique nucléaire
Centre d'Etudes de Bruyères-le-Châtel
B.P. No. 561
92542 Montrouge Cedex - France
Tél: 490 92 80, poste/extension 47 19

DEMANDE D'ENTREE
(à remplir par les visiteurs étrangers)

APPLICATION FORM
(to be filled in by foreign visitors and sent to J. Salvy)

NOM
Family name

PRENOM
First name

NATIONALITE
Nationality

DATE ET LIEU DE NAISSANCE
Date and Place of Birth

PROFESSION
Profession

NOM ET ADRESSE DE L'EMPLOYEUR HABITUEL
Name and Address of Permanent Employer

NOM ET ADRESSE DE L'EMPLOYER EN FRANCE (le cas échéant)
Name and Address of Employer in France (if any)

ADRESSE PERSONNELLE
Home Address

ADRESSE EN FRANCE (le cas échéant)
Address in France (if possible)

DATE ET DUREE DE LA VISITE
Date and Duration of the Visit

DATE et SIGNATURE

N.B. Il est demandé aux visiteurs étrangers de se munir de leur passeport (ou à défaut de leur carte d'identité) avant de se présenter à l'entrée du Centre (Service de Physique Nucléaire).

N.B. Foreign visitors are kindly requested to bring their passports (or, if not, their identity cards) when entering the Center (Service de Physique Nucléaire).