

# INTERNATIONAL NUCLEAR DATA COMMITTEE

# 1978 COMPILATION OF

# NATIONAL NUCLEAR DATA COMMITTEES

Supersedes INDC(SEC)-58/LN

June 1978

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## INTRODUCTION

This list of currently existing National Nuclear Data Committees, and their memberships, is compiled and published upon the request of the International Nuclear Data Committee with the object to promote the interaction and enhance the awareness of nuclear data activities in IAEA Member States.

The following Member States have indicated the existence of a nuclear data committee in their countries

Bangladesh Romania Bolivia Sweden Bulgaria USSR

France United Kingdom

Hungary USA

India Yugoslavia

Japan

The 1978 Compilation of National Nuclear Data Committees has been partially computerized, with the result that its content is now presented in two separate sections: one describing the organization and objectives of each of the nuclear data committees, and the other giving the membership of the committees including the names, addresses and areas of specialization of the committee members.

In order to keep this file up-to-date, recipients of this compilation are requested to communicate to the IAEA Nuclear Data Section corrections, additions or deletions as they occur. This compilation is proposed to be issued yearly so as to reflect the formation of new committees and changes in the membership of existing committees.

NATIONAL NUCLEAR DATA COMMITTEES

ORGANIZATION AND OBJECTIVES

#### BANGLADESH

#### Bangladesh Nuclear Data Committee

The aim and objective of the Committee is to coordinate, compile and evaluate the research activities, both theoretical and experimental, in the field of Nuclear Physics including neutron and reactor physics in Bangladesh.

#### BOLIVIA

Although no national nuclear data committee exists in Bolivia, the coordinating office responsible for nuclear data matters is

Biblioteca Comision Boliviana de Energia Nuclear Av. 6 de Agosto 2905 La Paz, Bolivia

Coordinadora de Publicaciones en materia nuclear

#### FRANCE

## Nuclear Data Committee of the French Atomic Energy Commission

#### Objective

The objective of this committee is to maintain a link between measurers, evaluators, and users of nuclear data belonging to different organizations within the CEA. Until now, the committee has been concerned almost exclusively with neutron data, and has had the following functions:

- the establishment and discussion of request lists
- the discussion of experimental programmes and evaluation tasks having the objective of improving coordination and exchanging information on computer programmes (codes).
- the dissemination of information, in particular that provided by the international committees (EANDC and INDC), and the collection of information for these committees.

#### Organization and Function

The Nuclear Data Committee, composed of 23 members, represents nuclear data users and nuclear data producers (experimental and theoretical physicists and evaluators) from a number of organizations and centres of the French Atomic Energy Commission.

The Chairman of the Committee (President) is appointed for one year, with a possible extension of his term in office.

The committee meetings, which occur a number of times per year and last for not longer than one day, are called by the chairman, and assisted by a secretary. The agenda for the meetings are drawn up by the chairman in accordance with the representation of organizations concerned. Depending on the agenda, expert advisers or observers can be invited to participate in the meetings.

In addition to plenary sessions, special working groups meet as required to study certain topics relevant to the work of the Committee.

#### HUNGARY

#### Hungarian Nuclear Data Committee

Currently, the Subcommittee for Nuclear Physics of the Hungarian Academy of Sciences serves as the national nuclear data committee. The main objective of this Committee is the coordination of different aspects of research in the field of nuclear physics in Hungary.

#### JAPAN

## Japonese Nuclear Data Committee

The Japanese Nuclear Data Committee (JNDC), organized in February 1963, is a standing committee of the Atomic Energy Society of Japan. The Committee is concerned primarily with the activities related to the nuclear data of interest to the development of the nuclear energy programme. The Committee has presently the following substructures: an executive committee, three subcommittees on 'nuclear data', 'reactor constants' and 'nuclear structure and decay data', nine working groups under the subcommittees, and four individual groups for CINDA, WRENDA, and for the compilation of the Japanese Evaluated Nuclear Data Library (JENDL) and the thermal neutron scattering bibliography.

The Committee meets two times a year, and each substructure group meets roughly twice a year to once a month depending upon the conditions of its activities. The operation of the committee meetings and the activities of the working groups are sponsored by the Japan Atomic

Energy Research Institute (JAERI), however, the whole activities of JNDC are largely supported by the voluntaries of its members. The Nuclear Data Centre of JAERI has been taking charge of the secretariat of JNDC.

## ROMANIA

## Romanian Nuclear Data Committee

The activities of the Romanian Nuclear Data Committee are coordinated and supervised by Dr. S. Râpeanu, Senior Scientist - Institute of Atomic Physics, Head of Division in the State Committee for Nuclear Energy.

## SWEDEN

## Swedish Nuclear Data Committee (KDK)

The committee members represent on one hand users of nuclear data within the reactor, shielding, fusion, medical and biological fields from reactor industries, national institutions universities, and on the other hand producers from national institutions and universities. The Committee meets twice a year to discuss questions concerning information and coordination of works in the nuclear data field. The Committee will annually publish reports about nuclear data activities in Sweden and compile request lists of nuclear data needs in different applied areas.

The nuclear data activity report and the relation between data needs and measurements are discussed in a recently formed subgroup of the Committee, the Coordination Group on Measurements. The Group also represents a link for nuclear data information exchange between the Committee and nuclear physics institutions at the Universities.

#### USSR

## USSR Nuclear Data Commission

# Organization and Objectives of the Soviet Commission on Nuclear Data of the State Committee on Atomic Energy Utilization

(Text of report given at the 6th INDC Meeting in Vienna, 8 - 12 October 1973)

The Commission on Nuclear Data (K.Ya.D) was formed in 1969 for the purpose of coordinating the activities regarding the need, the measurement, the compilation and evaluation of nuclear data, as well as for establishing international cooperation in the field of nuclear data.

The Commission is composed of leading experts in the field of nuclear data representing a number of institutes. The chairman of the Commission is Professor V.A. Kuznetsov of the Institute of Physics and Energetics (FEI). The organization responsible to the Commission for the conduct of nuclear data activities is the Nuclear Data Centre (CJD) at Obninsk. The commission meets a few times every year at which time recommendations are considered in context of plans for nuclear data projects. Until recently, two coordinating groups, which had a broader representation of institutes, were attached to the commission. One coordinating group was responsible for the utilization of nuclear data for reactors and shielding, the other was concerned with measurements and evaluation. These two groups were primarily concerned with neutron data needed for fission reactors and shielding, as well as for fusion reactors. Recently a third group on non-neutron nuclear data has been organized. The organization responsible to this coordinating group is the non-neutron nuclear data centre located at the Kurchatov Institute of Atomic Energy. The initial task of this activity consists in the determination of various needs of nuclear data.

At the present time, the coordinating group on measurements and evaluation is composed of subject-oriented sub-groups each responsible for a specific activity. Eight such sub-groups have been established and are responsible for the following subjects:

- 1.  $\sigma_t$ , v, kinetic energy of fission fragments and methods for the absolute measurements of fission parameters.
- 2. (n,n'), (n,2n), and neutron fission spectra.
- 3. "a" of fissionable isotopes and (n.2n) reactions.
- 4. Total cross sections.
- 5. Cross sections of highly radioactive nuclides.
- 6. Capture gamma-ray spectra from  $(n,\alpha)$  and (n,p) reactions.
- 7. Standard and reference cross sections.
- 8. Thermonuclear (synthesis) reactions.

The responsibilities of the subject-oriented sub-groups consist of the review of data requests, the promotion of data evaluation and the feeding of the numerical data to the Nuclear Data Centre (CJD).

#### UNITED KINGDOM

## Role of the United Kingdom Nuclear Data Committee UKNDC

- 1. To exercise a co-ordinating role over the U.K. programme of nuclear data measurement, evaluation and compilation.
- 2. To act as the formal link with international nuclear data committees and data organizations (e.g. INDC, NEANDC, NEACRP, CCDN).
- 3. To act as the formal link with other national committees with nuclear data interests.
- 4. To receive reports from sub-committees.
- To ensure that there is satisfactory interaction between sub-committees.
- 6. To identify new areas requiring nuclear data and to encourage provision of the appropriate support for each area.
- 7. To produce U.K. requests lists on appropriate topics.
- 8. To act as a centre of information about the U.K. work on nuclear data.
- 9. To produce an annual progress report on nuclear data activities in the U.K. for presentation to the Director of Harwell and to the relevant international data committees.

## Role of the Sub-Committees of the UKNDC

- 1. To review (or take note of) the nuclear data needs and formulate the requirements in their appropriate areas.
- 2. To stimulate the fulfilment of data needs.
- 3. To review progress on meeting the requirements in (a) experimental measurement or theoretical calculation of data, (b) evaluation and (c) compilation.
- 4. To act as centres of information within the U.K. for dissemination of new information.
- 5. To arrange suitable fora for discussion of relevant topics.
- 6. To report to the main committee at regular intervals.

#### UNITED STATES

## US DOE Nuclear Data Committee

The Nuclear Data Committee (DOE-NDC) was established by the Division of Physical Reserach (DPR) in 1975 to provide it with assistance and guidance in nuclear data matters. The Committee is to focus principally on applied nuclear data activities, especially on those pertaining to nuclear energy. The Committee is to be concerned with broad overviews of the field as well as to provide evaluation of major nuclear data programmes at the request of DPR. Detailed technical discussions are to be carried out within the Cross Section Evaluation Working Group (CSEWG) or within other working groups under the National Nuclear Data Centre (NNDC). DOE-NDC is to be the principal national committee to interface with the international nuclear data committees of IAEA and NEA. Meetings of DOE-NDC will be held annually and are chaired by a DOE employee. Members are appointed by the DPR and serve two year terms.

#### YUGOSLAVIA

#### National Nuclear Data Committee

The interim Yugoslav nuclear data committee is composed presently of the chairmen of the nuclear sciences departments of the main research institutes, and the INDC Liaison Officer for Yugoslavia.

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