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NUCLEAR DATA CENTRE BULLETIN NO. 13

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São Paulo, Brazil

February 1990

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MINISTRY OF AERONAUTICS
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INSTITUTE OF ADVANCED STUDIES

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Note from the Editor

Dear User,

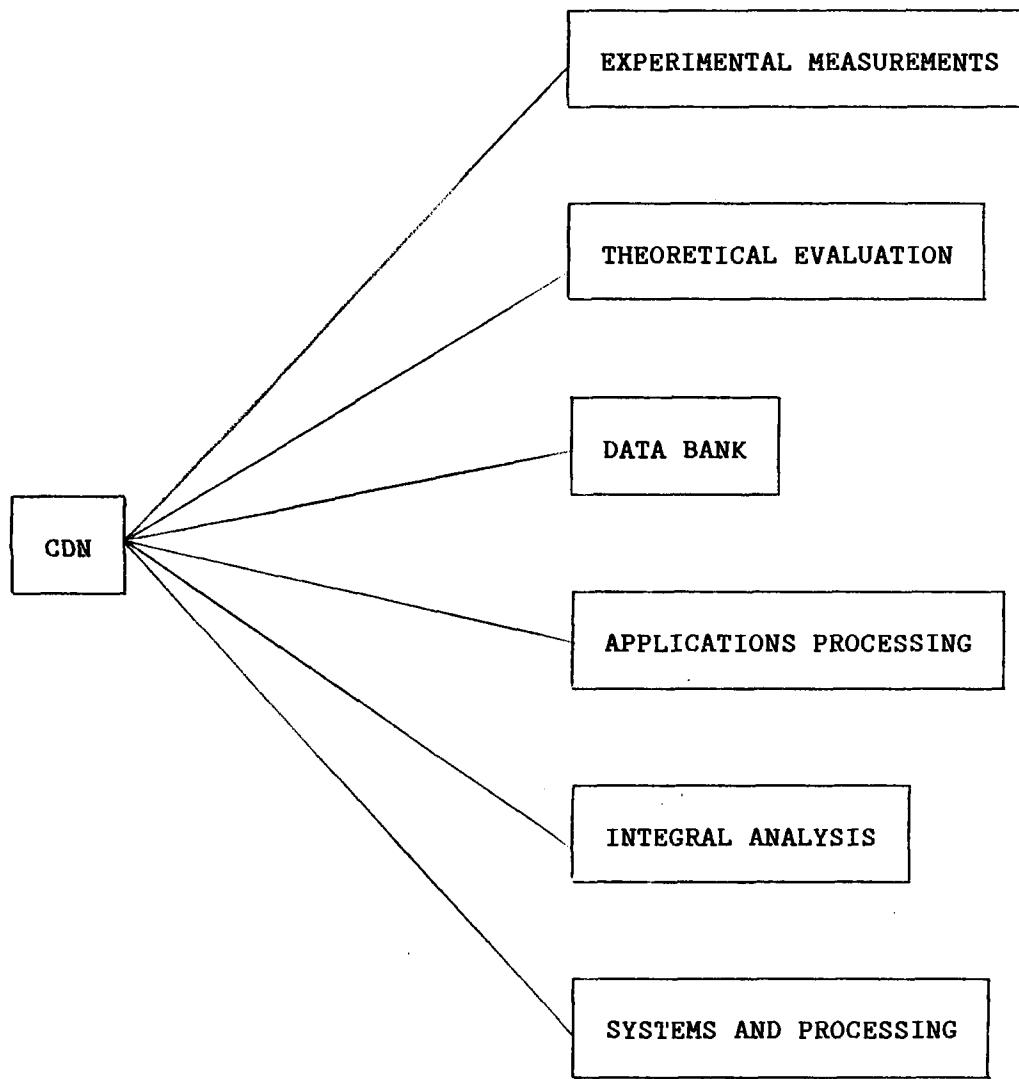
Our last Bulletin came out in June 1987. We have not forgotten you, though. During this period our staff was reduced and our editor went abroad on a training course. In view of the number of requests for services, publication of the Bulletin was temporarily stopped.

We have more news: the present manager of the Nuclear Data Centre (CDN) is Dr. Roberto D.M. Garcia, as Dr. Sergio de Queiroz Bogado Leite is no longer on the staff of the Institute of Advanced Studies (IEAv).

For the information of new users, and because we have been out of contact for some time, let us recall some facts.

The CDN, since its establishment in 1979, has been active in the areas of data evaluation, processing, qualification and distribution to users at nuclear institutions throughout Brazil. Since 1988, the CDN has also been developing software for this community.

The CDN currently consists of six groups, as shown in the organizational chart below.



The specific tasks of these groups are:

EXPERIMENTAL MEASUREMENTS

Obtaining of cross-sections and nuclear parameters on the accelerator (depends on completion of the accelerator).

DATA EVALUATION

Experimental data and theoretical models for the evaluation of measurements and compiling of evaluated data libraries.

DATA BANK

Data acquisition, compilation, verification and distribution to users.

APPLICATIONS PROCESSING

Development and qualification of software for processing evaluated data and maintenance of multigroup libraries.

INTEGRAL ANALYSIS

Qualification of evaluated data by comparison of calculated and measured integral parameters.

SYSTEMS AND PROCESSING

Support for the use of the computer system.

Dear Reader,

The entire CDN team is at your disposal to help you with your nuclear data needs for research or application in the nuclear field. Write to our manager at the following address:

Dr. Roberto D.M. Garcia
Centro Técnico Aeroespacial
Instituto de Estudos Avançados
Caixa Postal 6044
12231 São José dos Campos
São Paulo, Brazil

Telex (123) 3393 CTAE-BR.

Yours faithfully,

Raquel Paviotti Corcuera

SISAUT - A Retrieval System for Programs and Data Libraries
Ana Maria B.S. Pinheiro

SISAUT has already been available for over a year!

This is a retrieval and interactive search system for scientific programs and nuclear data libraries available at the IEAv. The system is conceptually simple and versatile and can be used for searches by name of program, by one or more keywords and by program groups (subjects), as well as for issuing periodical reports.

SISAUT is operated through a main menu which appears on a video terminal screen to enable the user to start his search.

All the programs and nuclear data libraries retrievable by SISAUT are stored on magnetic tape and available for processing. The user can obtain the following information:

Input data (program originating outside)
Access (public, semi-private and private)
Category (subject)
Group (IEAv group responsible for the program/library)
IEAv data (available for use)
IEAv computer (Cyber 170/750)
IEAv language (in case of adaptation from FORTRAN-IV to FORTRAN-V)
Originating institutes
Originating computer) Information about the
Originating language) supplier institute
Reference)
Brief description
Auxiliary programs and/or libraries (if required by the program/library sought)
Physical location (identification number of magnetic tape and file number)

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3. E.S. Chalhoub, J. Anaf, *Geração e testes da nova biblioteca versão 88, para o sistema Hammer* - IEAv/RP-024/88.
4. J. Anaf, E.S. Chalhoub, *Avaliação dos Códigos ETOG-3Q, ETOG-3, FLANGE-II, XLACS, NJOY e LINEAR/RECENT/GROUPIE no tange à contribuição de ressonâncias e seções de choque de referência* - IEAv/RP-065/88.

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