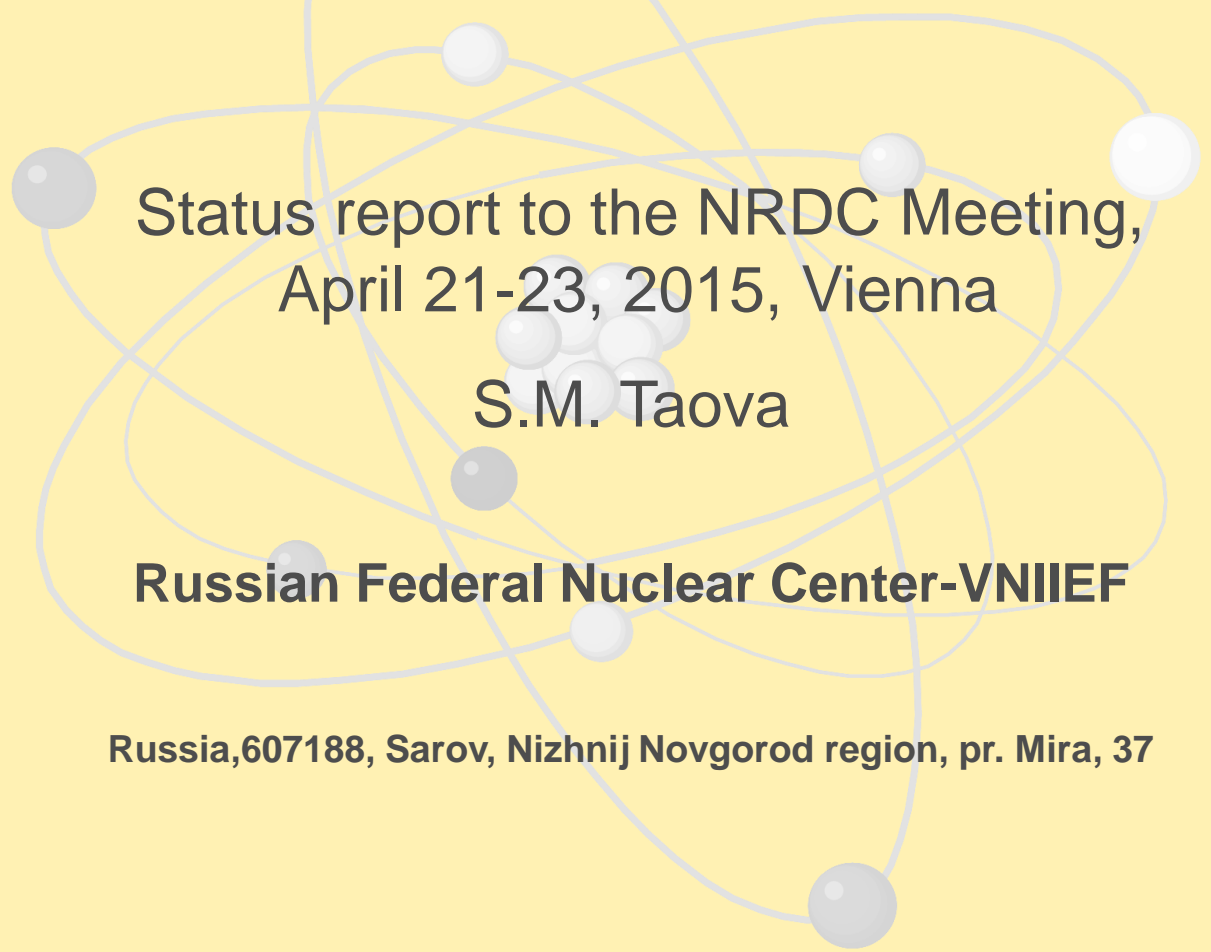


Center of Nuclear Physics Data



Status report to the NRDC Meeting,
April 21-23, 2015, Vienna

S.M. Taova

Russian Federal Nuclear Center-VNIIEF

Russia, 607188, Sarov, Nizhnij Novgorod region, pr. Mira, 37

EXFOR compilation

TRANS.F053

TRANS.F054

TRANS.F055

TRANS.F056

TRANS.F057

TRANS.A081

TRANS.A082

PRELIM.A083

44 new entries

171 revised entries

Help > Manual PDF | Lexfor | NNDC-Help | Output | Plot+ | R33 | Databases > ENDF | CINDA | IBANDL | CD-ROM > EXFOR-CINDA | CD-Catalog

Experimental Nuclear Reaction Data (EXFOR)
Database Version of March 16, 2015
Software Version of 2015.03.31

News

- 2015/03 **New.** Invert reaction data using detailed balance. Example: $^{13}\text{C}(\alpha,n)^{16}\text{O} \rightarrow ^{16}\text{O}(n,\alpha)^{13}\text{C}$
- 2014/12 **New.** Text search in extended EXFOR. [instructions/examples]
- 2014/07 **New.** Database of expert's corrections to EXFOR data on Web. Examples: Fe-54(n,p); Mn-55(n,2n), (n,g)

The EXFOR library contains an extensive compilation of experimental nuclear reaction data. Neutron reactions have been compiled systematically since the discovery of the neutron, while charged particle and photon reactions have been covered less extensively. The library contains data from 20766 experiments (see statistics and recent updates).
EXFOR Reference Paper: Nucl. Data Sheets 120(2014)272

Request Examples: 1234567...
Submit Reset Help

Options

- Exclude superseded data
- No reaction combinations (ratios,...)
- Enhanced search of Products
- Retrieve listing only
- Disable Prompt/Help

Sort by: reaction publication
View: basic extended

Ranges (Z,A)
Reaction Sub-Fields
Feedback and User's Input
Clone Request:
CINDA ENDF

Note:
- all criteria are optional (selected by checking)
- selected criteria are combined for search with logical AND
- criteria separated in a field by "*" are combined with logical OR

New responsibility, May 2014

Nuclear Data Section
International Atomic Energy Agency
P.O.Box 100, A-1400 Vienna, Austria

Memo CP-D/824

NRDC Protocol Appendix C

<u>Centre</u>	<u>Basic responsibility</u>	<u>Additional compilation</u>
CNPD	CPND from former Soviet Union countries (except Ukraine)	CPND from the world (coordinated with other <u>centres</u>)

Deletion of duplications

A40, A41, A42, A43

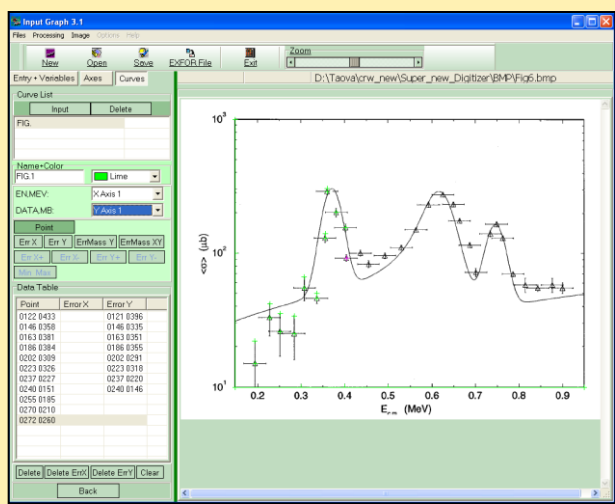
Prelim.A083

Memo CP-D/805 (Michel's group)

EXFOR	Remark
A0100	Adopt MI 96.sig data for Ti, Fe, Ni data with citation to [8].
A0145	Delete 004. Te same data set is compiled in A0148.005.
A0146	Ok
A0344	Supersede data from [11] by O0078, O0104 or O0280.
A0435	Supersede all data by O0277.
A0478	Supersede all data mainly by O0277.
A0479	Supersede all data by O0277 or O0281.
A0481	Supersede all data by O0277.
A0516	Delete all (repetition of O0276, O0277 or O0505) except for some data which must be superseded.
A0518	Delete all. Repetition of O0276 or O0282 except for a few data points.
A0519	Delete all (repetition of O0277) except for some data which must be superseded.
A0529	Delete all. All data were digitized, and final data are compiled in A0517.
A0530	Delete all. All data were digitized, and final data are compiled in O0276 or O0282.

Software

- EXFOR-Editor
- InpGraph 3.1



Workshop on Exfor compilation October 6-10, 2014, Vienna

Beta-version of InpGraph was presented

G. Pikulina “Structure of software on graphic data processing for the Exfor data library”

S. Taova “User’s interface of a program on graphic data processing for the Exfor data library: approaches, solutions, capabilities”

New Manual

EXFOR-Editor InpGraph

EXFOR-Editor

Программный комплекс для ввода и обработки
экспериментальных данных в формате библиотеки EXFOR

Краткое описание

Г.Н. Пикулина, С.М. Таова

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Изменено: 5.02.2013
Изменено: 27.02.2015

Scanning of Journals

“Izvestiya Akademii Nauk”

“Yadernaya Fizika”

“European Physical Journal A”