

New IAEA-NDS Front Page

V.Zerkin, IAEA-NDS, 16/09/2008

What was wrong with our previous main Web page?

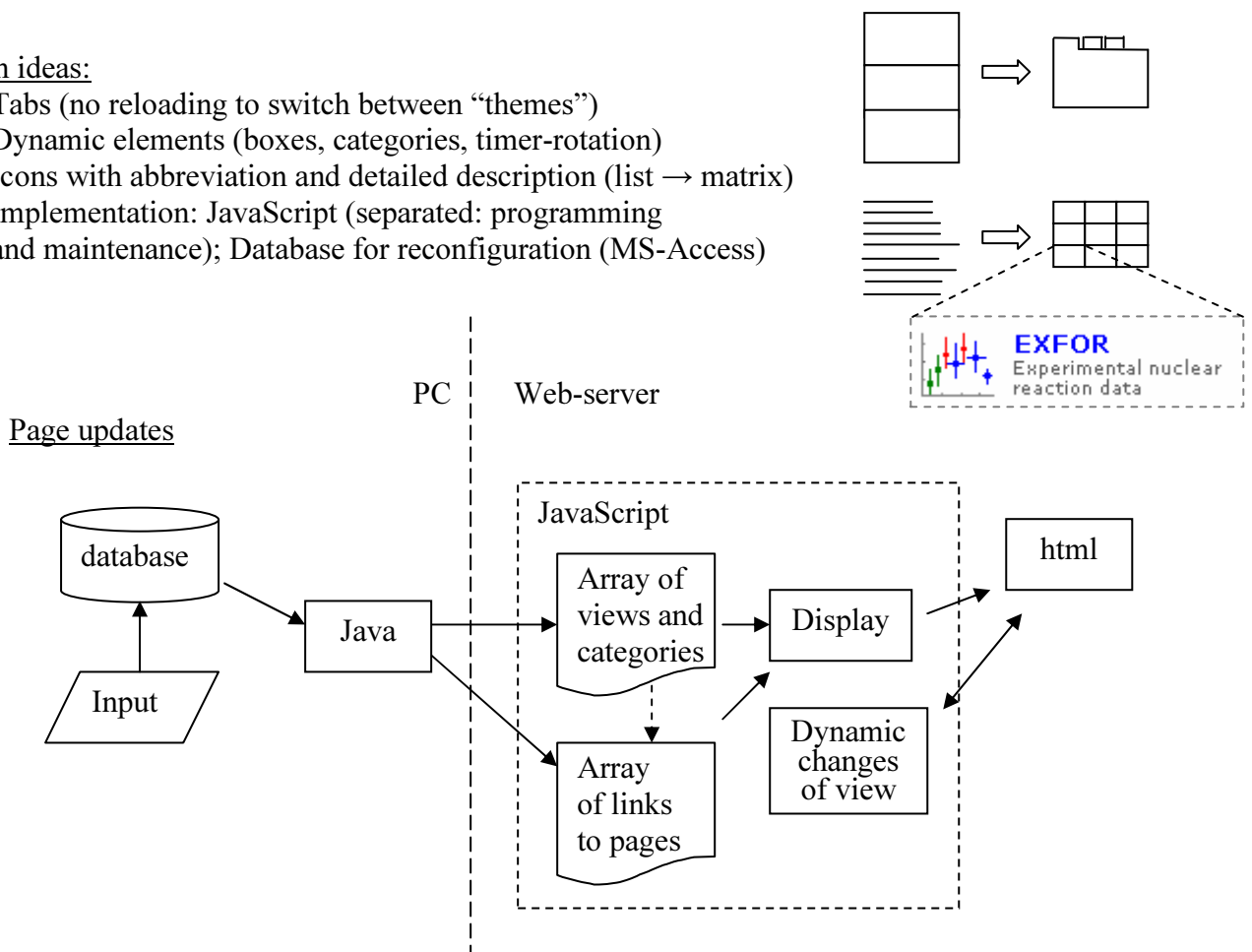
1. Too long (scrolling);
2. Only one type of structuring (no another view points)
3. Needs efforts for beginner to find needed information/data

What did we want to achieve?

1. Compact (fits to standard PC screen)
2. Simple, intuitive and clear (easy to find data-pages)
3. Quick access to pages (structure, short-cuts, icons)
4. Allow to present services from the different view points (pages sorted/filtered by users-interests/application-field, data-type, etc.)
5. Maintenance of structure should be semi-automatic

Main ideas:

1. Tabs (no reloading to switch between “themes”)
2. Dynamic elements (boxes, categories, timer-rotation)
3. Icons with abbreviation and detailed description (list → matrix)
4. Implementation: JavaScript (separated: programming and maintenance); Database for reconfiguration (MS-Access)



Common tools

During this development a programming tool was created, which is used as standard for NDS Web pages. This tool is used to produce new NRDC Web page.

IAEA Nuclear Data Services - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://www-nds.iaea.org/

http://www-nds.iaea.org/

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International Atomic Energy Agency

Nuclear Data Services

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Search Go

Hot Topics » ENDF/B-VII.0 • Safeguards data • WIMS-D Library • Fission Yields **News** » June 2008, New NDS front page

Request
CD/DVD with documentation, data, codes, etc.

Quick Links
[ADS-Lib](#)
[Atomic Mass Data Centre](#)
[CINDA](#)
[Charged particles XS](#)
[EMPIRE-II](#)
[ENDF](#)
[ENDF Utility Codes](#)
[ENDVER](#)
[ENSDF](#)
[ENSDF programs](#)
[EXFOR](#)
[FENDL-2.1](#)
[Fission Yields](#)
[GANDR](#)
[IAEA-NDS-0](#)
[IBANDL](#)
[INDL/TSL](#)
[IRDF-2002](#)
[MIRD](#)
[Minsk Actinides Library](#)
[NGATLAS](#)
[NSR](#)

July 2008. Publication of report: **Fission Product Yield Data for the Transmutation of Minor Actinide Nuclear Waste** [Page][Doc]

Main All Reaction Data Structure & Decay by Applications Doc & Codes Index Events

EXFOR Experimental nuclear reaction data	CINDA neutron reaction bibliography	ENSDF evaluated nuclear structure and decay data (+XUNDL) **
ENDF Evaluated nuclear reaction libraries	NSR Nuclear Science References *	A+M Atomic and molecular data AMBDAS, ALADDIN, GENIE, etc.

Link to EXFOR

NuDat 2.4 selected evaluated nuclear structure data **	RIPL reference parameters for nuclear model calculations	IBANDL Ion Beam Analysis Nuclear Data Library	Charged particles XS Beam monitor & radionuclide production cross sections
PGAA Prompt gamma rays from neutron capture	FENDL-2.1 Fusion Evaluated Nuclear Data Library, Version 2.1	Photonuclear cross sections and spectra up to 140MeV	IRDF-2002 International Reactor Dosimetry File
NGATLAS atlas of neutron capture cross sections	Safeguards Data recommendations, 2007	Medical Portal Data for Medical Applications	Standards - Neutron cross-sections, 2006 - Decay data, 2005

*Database at the IAEA, Vienna **Database at the US NNDC

IAEA Nuclear Data Section









IAEA-NDS Mission, Staff and more	Meetings Workshops	Newsletters	Coordinated Research Projects	Nuclear Reaction Data Center Network	Nuclear Structure & Decay Data Network	Selected Documents	Technical Reports, TECDOCs	INDC-NDS Reports	Computer Codes
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Link to NRDC-page

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Done

Links from NDS-Web page

Partners	Mirrors	Quick Links	Events 1..4next
 NNDC National Nuclear Data Center, Brookhaven, USA	 Nuclear Data Services International Atomic Energy Agency Vienna, Austria	ADS-Lib Atomic Mass Data Centre CINDA Charged particles XS EMPIRE-II ENDF ENDF Utility Codes ENDVER ENSDF ENSDF programs EXFOR FENDL-2.1 Fission Yields GANDR IAEA-NDS-0 IBANDL INDL/TSL IRDF-2002 MIRD Minsk Actinides Library NGATLAS NSR	 Modelling and evaluating nuclear reaction data for transport calculations: EMPIRE 15-19 December, 2008 IAEA HQ, Vienna, Austria Application deadline: October 3, 2008
 NEA Data Bank Nuclear Energy Agency, Nuclear Data Services, France	 BARC, India Nuclear Data Services Bhabha Atomic Research Centre Mumbai, India		 2008 Frederic Joliot & Otto Hahn Summer School on Nuclear Reactors The Role of Experiments on Nuclear Reactor Simulation and Analysis 20 - 29 August, 2008 Aix-en-Provence, France
 IPPE Institute of Physics and Power Engineering, Obninsk, Russia	 IPEN, Brazil Nuclear Data Services Institute for Energy and Nuclear Research		

Link to NRDC from the main page



NRDC label



Tab (frame): Reaction Data

Main	All	Reaction Data	Structure & Decay	by Applications	Doc & Codes	Index	Events
<h3>Database Retrieval Systems</h3> <ul style="list-style-type: none"> ENDF - Evaluated nuclear reaction libraries EXFOR - Experimental nuclear reaction data Link to EXFOR CINDA - neutron reaction bibliography 							
<h3>Data Libraries for download</h3> <ul style="list-style-type: none"> NGATLAS - atlas of neutron capture cross sections IBANDL - Ion Beam Analysis Nuclear Data Library FENDL-2.1 - Fusion Evaluated Nuclear Data Library, Version 2.1 Minsk Actinides Library - evaluated neutron reaction data (Maslov et al.) IRDF-2002 - International Reactor Dosimetry File Charged particles XS - Beam monitor & radionuclide production cross sections PADF 2007 - Proton Activation Data File POINT2007 - Pointwise data of ENDF/B-VII.0 processed into temperature dependent form Standards - Neutron Cross-section Standards 2006 RNAL - Reference Neutron Activation Library Various Specialized Evaluated Data Libraries in ENDF and other formats - Link to NRDC 							
<h3>Miscellaneous</h3> <ul style="list-style-type: none"> Nuclear Reaction Data Centre network - the NRDC network, contacts, webpages, etc. SigmaCalc - Evaluated (recommended) differential cross sections for Ion Beam Analysis Stopping Power Data for Light Ions - Graphs, data, programs, compiled by H. Paul EMPIRE-II - system of codes for nuclear reaction calculations (Version 2.19) Q-values, Thresholds - atomic masses, Q-values and threshold energies 							

Tab: pages sorted/filtered by users-interests/application fields

Main All Reaction Data Structure & Decay **by Applications** Doc & Codes Index Events

⤴ **Reactor Physics (particle transport, fuel cycle, transmutation, shielding)**

- [FENDL-2.1](#) - Fusion Evaluated Nuclear Data Library, Version 2.1
- [WIMSD-IAEA Library](#) - multigroup data library for the WIMS-D code
- [Minsk Actinides Library](#) - evaluated neutron reaction data (Maslov et al.)
- [NuDat 2.4](#) - selected evaluated nuclear structure data **
- [ENDF](#) - Evaluated nuclear reaction libraries
- [MENDL-2](#) - Russian cross-section data library for transmutation and activation of materials irradiated by neutrons with energies up to 100 MeV. Yu.N. Shubin et al.
- [Fission Yields](#) - Fission Product Yield Data for the Transmutation of Minor Actinide Nuclear Waste
- [Fission Yields Report](#) - Doc: Fission Product Yield Data for the Transmutation of Minor Actinide Nuclear Waste

⤴ **Atomic and molecular data for fusion research**

- [A+M](#) - Atomic and molecular data AMBDAS, ALADDIN, GENIE, etc.
- [ALADDIN](#) - Atomic and Molecular Data for Fusion
- [AMBDAS](#) - Atomic and molecular bibliographical database

⤴ **Ion Beam and Thin Layer Activation Analysis**

- [IBANDL](#) - Ion Beam Analysis Nuclear Data Library
- [SigmaCalc](#) - Evaluated (recommended) differential cross sections for Ion Beam Analysis
- [EXFOR](#) - Experimental nuclear reaction data
- [ENDF](#) - Evaluated nuclear reaction libraries

Link to EXFOR

⤴ **Dosimetry reactions**

- [IRDF-2002](#) - International Reactor Dosimetry File
- [IRDF-90](#) - The International Reactor Dosimetry File (IRDF-90 Version 2)
- [NMF-90](#) - Neutron Metrology File

⤴ **Activation analysis**

- [PADF 2007](#) - Proton Activation Data File
- [PGAA](#) - Prompt gamma rays from neutron capture
- [NGATLAS](#) - atlas of neutron capture cross sections
- [RNAL](#) - Reference Neutron Activation Library
- [Thermal neutron capture gamma rays](#) - by target and by energy
- [NuDat 2.4](#) - selected evaluated nuclear structure data **

⤴ **Nuclear Medicine**

- [Charged particles XS](#) - Beam monitor & radionuclide production cross sections
- [Nuclear data links for medical applications](#) - relevant sites at the IAEA and worldwide
- [MIRD](#) - medical internal radiation dose tables
- [RADAR](#) - Radiation Dose Assessment Resource *Radiation dose assessment*
- [X and Gamma-rays standards](#) - Decay data standards for detector calibration

⤴ **Neutron Source Reactions**

- [Alpha-n reactions from JAERI](#) - Alpha-n reactions from JAERI
- [DROSG-2000](#) - Package with programs and data for 59 neutron source reactions
- [Cf-252 neutron spectrum](#) - Evaluation of the californium-252 spontaneous fission neutron spectrum, by W. Mannhart, PTB Braunschweig, FRG, 1986/8