### Search and Manipulate Data

There are many possibilities to search in the databases included in Janis:

- Using the 'Search' option in the menu.
- Right-clicking on the data line in the plot window, and chose 'search'

Different search features:

- The EXFOR search window contains most keywords that are included in the EXFOR format.
- CINDA includes searches on the reaction string as well as a cross correlation with EXFOR data.
- The ENDF search window.
- Decay lines.
- Resonances.

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## **Additional features**

- Computation of data
- Weighting (energy spectra, groups)
- Comparison with other data

## What's new in Janis-3

- Janis-3 contains the latest evaluated data libraries: JEFF-3.1, ENDF/B-VII, JENDL-3.3, FENDL-2.1 ...
- The complete EXFOR database can be accessed, in the original format.
- Bibliographical data in the upgraded CINDA database is available.
- New search interfaces for the EXFOR and CINDA databases.
- The plot window is improved with vectorial display. The user can customize all fields, e.g. titles, x-axis unit presentation, colours, fonts...
- Improved export functionality of data and graphs. CSV, PNG and many other formats are supported
- JANIS is totally integrated as the plotting tool for the NEA web retrievals EVA and EXFOR. See:
  - o www.nea.fr/html/dbdata/eva
  - o <u>www.nea.fr/html/dbdata/x4</u>

# **Frequently Asked Questions**

Please see <u>www.nea.fr/janis/help/</u> for answers and How-To...

Please use <u>janis@nea.fr</u> to send questions to the Janis forum.

## **Contact details**

Nicolas Soppera, <u>janisinfo@nea.fr</u> OECD Nuclear Energy Agency, 12 Blvd des Iles, 92130 Issy-les-Moulineaux, France





### Summary:

Janis is a display program for nuclear data. It offers flexibility for the comparison of different nuclear data sets. Its powerful and user-friendly navigation tools make it also suitable for educational purposes.

# Janis is free of charge.

## **Getting Started**

- Install Java
- Launch or download Janis from <u>www.nea.fr/janis</u>, or request a DVD from janisinfo@nea.fr



## **Browser Window**

This window contains <u>legends</u>, <u>isotope list</u>, <u>database selection</u> and <u>'chart of nuclides'</u> panes. By double-clicking on the chosen isotope, the plot window appears.

## **Plot Window**

The plot window contains a <u>data pane</u> with graphs, tabular data or decay paths, a <u>settings pane</u> for title customization, etc. and a <u>selection pane</u> to choose data sets.

# Search and Manipulate Data

Several search windows permit to find data in EXFOR, CINDA, evaluated data libraries, NUBASE, et c. Data can be intercompared in the plot window.

# News, FAQ and Contacts

See the web page <u>www.nea.fr/janis</u>



### **Getting started**

Free Download and Usage:

- Java (e.g. JRE version 5.0) needs to be installed to run Janis. Available for free at: <u>http://www.java.com/</u>
- Launch or download Janis from <u>www.nea.fr/janis</u>. Alternatively: request a DVD from the NEA.



Janis is platform-independent: it runs on all computer operating systems that supports Java.

### Main menu

<u>File</u>	Load data, change preferences, exit.
<u>Database</u>	Install remote or local databases.
<u>Search</u>	Find data in all installed databases.
<u>Chart</u>	Set chart preferences, find nuclides,
	save chart as figure.
<u>Help</u>	Manual, present version details.

### The Browser Window

When Janis is launched\*, the browser window appears.



This window contains a 'chart of nuclides' pane with the isotopes that are available in a certain database selected in the bottom-left pane. The middle-left pane contains a list of the isotopes, and the top-left pane shows the legend of the chart pane. The bar at the bottom of the window is used to zoom. By double-clicking on the chosen isotope, the plot window appears (Ctrl-G can be used to find the isotope of interest.) By right-clicking on an isotope, further data on that isotope is shown.

\* If Janis is launched via the NEA Web retrieval system, EVA and EXFOR, a **plot window** is displayed immediately. See also:

- o <u>www.nea.fr/html/dbdata/eva</u>
- o www.nea.fr/html/dbdata/x4

### The Plot Window

The plot window contains three main parts:

- The Data pane with graphs, tabular data or decay paths (shown in different 'tabs').
- The Settings pane (to the right) used to set the x- and y-axes, normalization factors, zoom, titles, colours, unit format...
- The Selection pane in the bottom of the window is used to choose what data to handle. There are many choices here.
  - 'P' plots the selected data set.

  - 'I' presents general information.
  - 'D' is used for decay paths.

Right-clicking on a selected data set gives a menu of choices for manipulating or comparing the data set. See also the menu bar for more options.

