

Creation of an Entry using software ExfEditor: example

*Forth DAE-BRNS Workshop on EXFOR Compilation of Nuclear Data
Panjab University, Chandigarh, 3-7 April 2011*

Svetlana Dunaeva

Run “ExfData” program

VNIIEF
CNPD

Codes ZCHEX for checking EXFOR entries and
ZORDER for indexing by V.McLane, BNL and
V.Zerkin, IAEA/NDS are used


EXFOR Editor

Compilation into database EXFOR

Version 1.3

Copyright 2005-2007
G.Pikulina, S.Taova

Thanks to V.Zerkin and
S.Dunaeva, IAEA/NDS for
proposals and testing

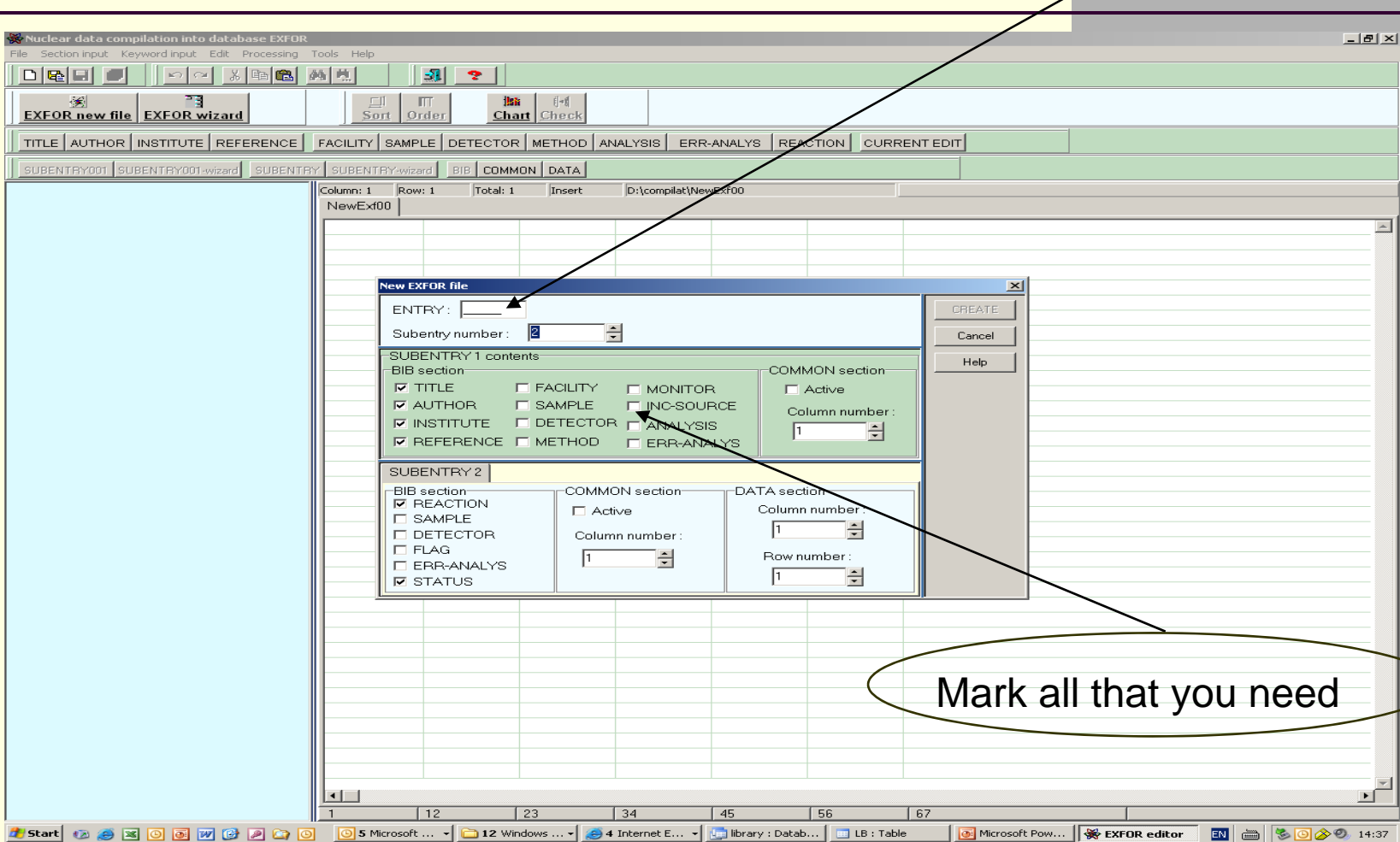


IAEA

Loading...

creation of a new file in the EXFOR format using
button “EXFOR new file” or command

File name



Result of first step: template

The screenshot displays the EXFOR editor software interface. The title bar reads "Nuclear data compilation into database EXFOR". The menu bar includes "File", "Section input", "Keyword input", "Edit", "Processing", "Tools", and "Help". The toolbar contains icons for file operations and editing. Below the toolbar are several tabs: "EXFOR new file", "EXFOR wizard", "Sort", "Order", "Chart", and "Check". A series of tabs for data fields are visible: "TITLE", "AUTHOR", "INSTITUTE", "REFERENCE", "FACILITY", "SAMPLE", "DETECTOR", "METHOD", "ANALYSIS", "ERR-ANALYSIS", "REACTION", and "CURRENT EDIT".

The main window is divided into a left-hand tree view and a right-hand data entry area. The tree view shows a hierarchical structure with "ENTRY D0349" expanded to show "SUBENT D0349001" and "SUBENT D0349002", each containing "BIB" and "DATA" sub-entries. The data entry area shows a table with columns for "Column: 1", "Row: 1", "Total: 24", and "Insert". The table content is as follows:

Column: 1	Row: 1	Total: 24	Insert
NewExf00	D0349	exf	
ENTRY	D0349	20070926	
SUBENT	D0349001	20070926	
BIB			
TITLE			
AUTHOR			
INSTITUTE			
REFERENCE			
FACILITY			
DETECTOR			
HISTORY	(20070926C)		
ENDBIB			
NOCOMMON			
ENDSUBENT			
SUBENT	D0349002	20070926	
BIB			
REACTION			
STATUS			
ENDBIB			
NOCOMMON			
DATA	4	1	
ENDDATA			
ENDSUBENT			
ENDENTRY			

The status bar at the bottom shows the Windows taskbar with the Start button and several open applications: "5 Microsoft...", "12 Windows...", "4 Internet E...", "library : Datab...", "LB : Table", "Microsoft Pow...", and "EXFOR editor". The system clock shows "14:41".

Button “INSERT”

Choose keyword from the list,

if line with such keyword is absent in the file

The screenshot displays the 'Nuclear data compilation into database EXFOR' application. The interface includes a menu bar (File, Section input, Keyword input, Edit, Processing, Tools, Help), a toolbar, and a main window with a tree view on the left and a data table on the right. The tree view shows a hierarchy: ENTRY (D0349) > SUBENT (D0349001) > BIB (D0349002) > DATA. The data table has columns for 'Column: 1', 'Row: 17', 'Total: 32', and 'Insert'. The current row is 'NewEx00 D0349 exf'. The table content is as follows:

Column: 1	Row: 17	Total: 32	Insert	D:\complat\D0349.exf	SUBENTRY D0349001 BIB section
ENTRY	D0349	20070926			
SUBENT	D0349001	20070926			
BIB					
TITLE	Isotopic effects in the $^7\text{Li} + ^{10,11}\text{B}$ elastic and inelastic scattering				
AUTHOR	(A. T. Rudzhik, V. O. Romanyshyn, E. I. Koshchy, A. Budzanowski, K. M. Kemper, K. Rusek, V. D. Chesnokova, J. Choinski, B. Crech, L. Glowacka, S. Kliczewski, V. M. Kyryanchuk, S. Yu. Mezhevych, A. V. Mochnach, O. A. Momotyuk, O. A. Ponkratenko, R. Siudak, I. Skwirczynska, A. Szczurek)				
INSTITUTE	(4UKRJD, 4UKRRHU, 3POLIFJ, 1USAFSU, 3POLIPJ, 3POLWWA) (3POLPOL) Institute of Applied Physics, MUT, ul. Kaliskiego 2, PL-00-908 Warsaw, Poland University of Rzeszow, PL-35-959 Rzeszow, Poland				
REFERENCE	(JEPJ/A, 33, 317, 202007)				
FACILITY	(CYCLO, 3POLWWA) Warsaw University cyclotron C-200P.				
DETECTOR	FELES, IOCH, SI				
EDIT...	(20070926C)				
INSERT	TITLE...				
NOCOMMON	AUTHOR...				
ENDSUBENT	INSTITUTE...				
SUBENT	REFERENCE... 20070926				
BIB	FACILITY...				
REACTION	INC-SOURCE...				
STATUS	SAMPLE...				
ENDBIB	DETECTOR...				
NOCOMMON	METHOD...				
DATA	ANALYSIS... 1				
ENDDATA	ERR-ANALYS...				
ENDSUBENT	REACTION...				
ENDENTRY	COMMON... DATA...				
	COMMENT... CORRECTION... STATUS...				

The 'INSERT' menu is open, showing options: TITLE..., AUTHOR..., INSTITUTE..., REFERENCE..., FACILITY..., INC-SOURCE..., SAMPLE..., DETECTOR..., METHOD..., ANALYSIS..., ERR-ANALYS..., REACTION..., COMMON..., DATA..., COMMENT..., CORRECTION..., STATUS... The 'INSERT' button is highlighted in the menu.

Button “EDIT”

Insert title

The screenshot displays the EXFOR software interface. The main window shows a data table with columns for ENTRY, SUBENT, BIB, and DATA. The current position is highlighted as 'SUBENTRY D0349001 BIB section'. A dialog box titled 'title edit' is open, showing the text 'Isotopic effects in the 7Li + 10,11B elastic and inelastic scattering'. The dialog box has 'Compress' and 'Clear' buttons, and 'OK', 'Cancel', 'Help', and 'EXFOR-Help' buttons at the bottom. An arrow points from the text below to the 'OK' button in the dialog box.

Column: 1	Row: 4	Total: 24	Insert	D:\complat\D0349.exf	SUBENTRY D0349001 BIB section
NewExf00	D0349	exf			
ENTRY	D0349	20070926			
SUBENT	D0349001	20070926			
BIB					
TITLE					
AUTHOR					
INSTITUTE					
REFERENCE					
FACILITY					
DETE					
HIST					
ENDB					
NOCO					
ENDS					
SUBE					
BIB					
REAC					
STAT					
ENDB					
NOCO					
DATA					
ENDD					
ENDSUBENT					
ENDENTRY					

Current Position: [SUBENTRY D0349001 BIB section](#)

After choosing “EDIT..” additional window for TITLE input appears

Insert INSTITUTE

List of Institutes from Dictionary 3

The screenshot displays the EXFOR software interface. The main window shows a data entry form for a nuclear reaction. The 'INSTITUTE' field is currently empty. A list of institutes is visible in the background, and a 'Search' button is highlighted with a red circle. An arrow points from the text 'Button "search"' to this button.

INSTITUTE edit

INSTITUTE

Compress Clear

Dictionary

Search New code Add to string

1CANALA - Univ. of Alberta, Edmonton, Alberta
1CANBUQ - Bishop University, Lennoxville, Quebec
1CANCAN - Canada
1CANCPO - A.E.C.L. Commercial Products, Ottawa, Ontario
1CANCRC - A.E.C.L. Chalk River, Ontario
1CANCRL - Carleton University, Ottawa, Ontario
1CANGUE - Univ. of Guelph, Guelph, Ontario
1CANKQU - Queen's University, Kingston, Ontario
1CANLIQ - Laval University, Sainte-Foy, Quebec
1CANMCG - McGill University, Montreal, Quebec
1CANMCM - McMaster University, Hamilton, Ontario
1CANMGW - Sir George Williams Univ., Montreal, Quebec

DATA
ENDDATA
ENDSUBENT
ENDEENTRY

1 12 23 34 45 56 67

Start 5 Microso... 12 Windo... 4 Interne... 2 Microsof... Microsoft P... EXFOR edit... Microsoft E... Adobe Acro... EN 15:05

Insert INSTITUTE

Another possibility to use “Search” button - allows search in separate window

The screenshot displays the EXFOR software interface. The main window shows a data entry form for a nuclear reaction. The 'INSTITUTE' field is currently empty. A search window titled 'INSTITUT Find Text' is open, showing a list of institutions. The search term 'tusa' is entered in the 'Text to Find' field. The search results list several institutions, with '1USAABD - U.S. Army Aberdeen Res + Develop.Center, Aberdeen, MD' selected. The main window also shows a tree view on the left with folders for ENTRY, SUBENT, BIB, and DATA. The status bar at the bottom indicates the current row is 11 of 29.

Column: 1	Row: 11	Total: 29	Insert	D:\complat\D0349.exf	SUBENTRY D0349001 BIB section
ENTRY	D0349	20070926			
SUBENT	D0349001	20070926			
BIB					
TITLE	Isotopic effects in the $^7\text{Li} + ^{10,11}\text{B}$ elastic and inelastic scattering				
AUTHOR	(A. T. Rudchik, V. O. Romanyshyn, E. I. Koshchy, A. Budzanowski, K. W. Kemper, K. Rusek, V. D. Chesnokova, J. Choinski, B. Crech, L. Glowacka, S. Kliczewski, V. M. Kyryanchuk, S. Yu. Mezhevych,				

INSTITUT Find Text

Text to Find: tusa

Find

Select

Cancel

Compress

Dictionary

1USAABD - U.S. Army Aberdeen Res + Develop.Center, Aberdeen, MD

1USAACC - Exxon Nuclear Idaho Co., ID

1USAAEC - U.S. Atomic Energy Commission, Washington, DC

1USAافت - Air Force Inst. Technology, Wright-Patterson AFB, OH

1USAAPW - Air Force Weapons Lab., Kirtland AFB, Albuquerque, NM

1USAAGN - Aerojet-General Nucleonics, San Ramon, CA

1USAAL - Rockwell Int., Energy Systems Group, Canoga Park, CA

STATUS

ENDBIB

NOCOMMON

DATA

ENDDATA

ENDSUBENT

ENENTRY

Use “New code” button for introducing new line for the one keyword

For example, keyword INSTITUTE

Please never forget to push button “Add to string”!

Click “New code”

result

Column: 1	Row: 11	Total: 29	Insert	D:\complat\D0349.exf	SUBENTRY D0349001 BIB section
ENTRY	D0349	20070926			
SUBENT	D0349001	20070926			
BIB					
TITLE	Isotopic effects in the $7\text{Li} + 10,11\text{B}$ elastic and inelastic scattering				
AUTHOR	(A. T. Rudchik, V. O. Romanyshyn, E. I. Koshchy, A. Budzanowski, K. W. Kemper, K. Rusek, V. D. Chesnokova, J. Choinski, B. Czech, L. Glowacka, S. Kliczewski, V. M. Kyryanchuk, S. Yu. Mezhevych,				
STATUS					
ENDBIB					
NOCOMMON					
DATA		4		1	
ENDDATA					
ENDSUBENT					
ENDENTRY					

Search can be done with the help of button “drop down”

The screenshot displays the EXFOR software interface. The main window shows a data entry form with fields for ENTRY, SUBENT, BIB, TITLE, AUTHOR, and REACTION. A search dialog box titled "Information Reference Edit" is open, showing a list of reference types and a search field. The search field contains the text "EPJ/A - Eur.Phys.J.A".

The main window title is "Nuclear data compilation into database EXFOR". The menu bar includes "File", "Section input", "Keyword input", "Edit", "Processing", "Tools", and "Help". The toolbar contains icons for file operations and data processing. The main window is divided into several sections: "EXFOR new file", "EXFOR wizard", "Sort", "Order", "Chart", and "Check". Below these are tabs for "TITLE", "AUTHOR", "INSTITUTE", "REFERENCE", "FACILITY", "SAMPLE", "DETECTOR", "METHOD", "ANALYSIS", "ERR-ANALYSIS", "REACTION", and "CURRENT EDIT". The "REFERENCE" tab is active, showing a tree view on the left with "ENTRY D0349", "SUBENT D0349001", "BIB", "SUBENT D0349002", "BIB", and "DATA". The main area shows a table with columns for "Column: 1", "Row: 15", "Total: 32", "Insert", "D:\complat\D0349.exf", and "SUBENTRY D0349001 BIB section". The table contains the following data:

Column: 1	Row: 15	Total: 32	Insert	D:\complat\D0349.exf	SUBENTRY D0349001 BIB section
ENTRY	D0349	20070926			
SUBENT	D0349001	20070926			
BIB					
TITLE	Isotopic effects in the $^7\text{Li} + ^{10,11}\text{B}$ elastic and inelastic scattering				
AUTHOR	(A. T. Rudchik, V. O. Romanyshyn, E. I. Koshchy, A. Budzanowski, V. H. Kanner, V. Buzak, V. D. Chesnokova, J. Chojnacki, B. Czech)				
REACTION					
STATUS					
ENDBIB					
NOCOMMON					
DATA	4	1			
ENDDATA					
ENDSUBENT					
ENDENTRY					

The search dialog box "Information Reference Edit" has a "REFERENCE:" field, a "Compress" button, a "Clear" button, and a "Reference Type:" dropdown menu set to "Journal". Below this is a list of reference types with a search field and a "Search" button. The list includes:

- EPJ/A - Eur.Phys.J.A
- EPJ/A - Eur.Phys.J.A
- EPJ/AS - Eur.Phys.J.A Suppl.
- EPJ/C - Eur.Phys.J.C
- EPL - Earth Plan Sci Lett.
- ESJ - J.Enq.Sci.(S.Arab.)
- ETP - Exp.Techn.Phys.
- EUL - Europhysics Lett.
- EXP - Experimenta
- FBS - Few-Body Sys.
- FBS/S - Few-Body Sys. Suppl.
- FCY - Fiz.EIChes.At.Yad
- FCY/L - Fiz.EIChAt.Yad.Lt.

The Windows taskbar at the bottom shows the Start button and several open applications: Microsoft..., 10 Windo..., 4 Internet..., Microsoft Po..., 2 ExfData..., Microsoft Ex..., DAN_BACK..., Adobe Acro..., EN, and a system clock showing 08:27.

Enter FACILITY keyword

Never forget to add Institute code to the facility

The screenshot displays the EXFOR software interface. The main window shows a data entry form with the following fields:

TITLE	AUTHOR	INSTITUTE	REFERENCE	FACILITY	SAMPLE	DETECTOR	METHOD	ANALYSIS	ERR-ANALYSIS	REACTION	CURRENT EDIT
ENTRY	D0349										
SUBENT	D0349001										
BIB											
TITLE	Isotopic effects in the $^7\text{Li} + ^{10,11}\text{B}$ elastic and inelastic scattering										
AUTHOR	(A. T. Rudchik, V. O. Romanyshyn, E. I. Koshchy, A. Budzanowski, K. W. Kemper, K. Rurek, V. D. Chesnokova, J. Choinski, B. Czech,										

A 'Facility Description' dialog box is open, showing a list of facilities. The 'Find Text' dialog box is also open, with 'Text to Find' set to '3POLPOL'. The list of facilities includes:

- 3POLPOL - Poland
- 3POLPWA - Politechnika Warszawska
- 3POLSKU - Curie-Sklodowska University, Lublin
- 3POLUJK - Krakow, Jagellonian Univ
- 3POLWRD - Univ. of Wroclaw, Wroclaw
- 3POLWVA - Warszawa, University
- 3PRGPRG - Paraguay

The 'FACILITY' field in the main window is currently empty. The 'Find Text' dialog box has '3POLPOL' selected in the list. The 'Add to string' button is visible next to the list.

COMMON SECTION

The screenshot displays the EXFOR editor software interface. The main window shows a data table with columns for Column, Row, Total, Insert, and File Name. The current row is 51, and the total number of rows is 87. The data table contains the following entries:

Column	Row	Total	Insert	File Name
51.0	15.0			
ENDCOMMON				
ENDSUBENT				
SUBENT	D0349002	20070926		
BIB				
REACTION				
ENDBIB				
COMMON				
EN				
MEV				
2.0	2.0	8.		
ENDCOMMON				
DATA				
ANG				
ADEG				
1.991E+3				
2.016E+3				
2.041E+3				
2.066E+3				
2.091E+3				
2.116E+3				
2.141E+3				
2.166E+3				
2.191E+3				
2.216E+3	1.33			
2.241E+3	1.38			
2.267E+3	1.65			
2.292E+3	1.46			
2.317E+3	1.21			
2.342E+3	2.3			
2.367E+3	2.65			
2.392E+3	2.65			
2.417E+3	1.83			
2.442E+3	1.09			
2.467E+3	0.63			
2.492E+3	0.82			
2.517E+3	0.95			

An "Input of common data table" dialog box is open, showing a table with the following data:

EN	+DATA-ERR1
MEV	MB/MEV
2.0	8.

The dialog box also includes fields for "Heading" and "Units", a "Value" field, and buttons for "Add", "Insert", "Delete", "Move Left", and "Move Right". The current position is indicated as "SUBENTRY D0349002 COMMON section".

DATA input

Put cursor on position of DATA

The screenshot shows the EXFOR editor interface. The main window displays a data entry form for a nuclear reaction. The 'DATA' field is highlighted, and a context menu is open over it, showing options: 'EDIT...', 'INSERT', and 'ENDENTRY'. A red arrow points from the text 'Put cursor on position of DATA' to the 'DATA' field.

The data entry form contains the following information:

Column	Row	Total	Insert	D:\complat\D0349.exf	SUBENTRY D0349002 DATA section
1	52	56			
1	53	56			
1	54	56			
1	55	56			
1	56	56			
1	57	56			
1	58	56			
1	59	56			
1	60	56			
1	61	56			
1	62	56			
1	63	56			
1	64	56			
1	65	56			
1	66	56			
1	67	56			
1	68	56			
1	69	56			
1	70	56			
1	71	56			
1	72	56			
1	73	56			
1	74	56			
1	75	56			
1	76	56			
1	77	56			
1	78	56			
1	79	56			
1	80	56			
1	81	56			
1	82	56			
1	83	56			
1	84	56			
1	85	56			
1	86	56			
1	87	56			
1	88	56			
1	89	56			
1	90	56			
1	91	56			
1	92	56			
1	93	56			
1	94	56			
1	95	56			
1	96	56			
1	97	56			
1	98	56			
1	99	56			
1	100	56			

The data entry form contains the following text:

METHOD (EDE)
DETECTOR (TELES,IOCH,SI) The reaction products were detected by two types of dE-E telescopes: 1. an ionization chamber (IC) (dE detector) with two entrance windows separated by 9.5. + two 1 mm (E) silicon detectors that formed two separate telescopes.
TELES,SI,SI) Third telescope was with 67 mu-m (dE) + 1 mm (E) silicon detectors positioned independently from the other two.
ERR-ANALYS (ERR-S) statistical errors, including uncertainties from the spectrum fitting procedure.
(ERR-SYS) The normalization error. The angular distribution of the elastic scattering was normalized to the Optical Model(MO) cross-section at small angles. The same factor was used to normalize the angular distributions for both elastic- and inelastic-scattering data at the forward and backward angles.
STATUS (TABLE) Data were reived from Dr. A.T.Rudchik
HISTORY (20070926C)
ENDBIB
COMMON 2
EN ERR-SYS
MEV PER-CENT
51.0 15.0
ENDCOMMON
ENDSUBENT
SUBENT D0349002 20070926
BIB
REACTION 3-LI-7 (S-B-10, EL) , , DA , , RTH
ENDBIB
NOCOMMON
DATA 4 1
ENDENTRY

DATA input

Data headings input

The screenshot displays the EXFOR editor software interface. The main window is titled "Nuclear data compilation into database EXFOR" and contains a menu bar (File, Section input, Keyword input, Edit, Processing, Tools, Help) and a toolbar. Below the toolbar is a navigation pane with tabs for TITLE, AUTHOR, INSTITUTE, REFERENCE, FACILITY, SAMPLE, DETECTOR, METHOD, ANALYSIS, ERR-ANALYSIS, REACTION, and CURRENT EDIT. The left sidebar shows a tree view with folders for ENTRY, SUBENT, COMMON, and DATA. The main area is a "Data Table" with a grid. A dialog box titled "Column Title for Data Table" is open, showing a list of headings and units: ANG (-Angle, Laboratory System), ADEG (-Angular Degrees), AMIN (-Angular Minutes), and ASEC (-Angular Seconds). The "ANG" heading is selected. The dialog has "Add Column" and "Cancel" buttons. On the right side of the main window, there is a "Current Subentry" panel with "D0349002" selected, and a "DATA" panel with buttons for Import, Sort, Paste, Chart, Clear All, Add, Insert, Copy, Delete, Rename, Move Left, Move Right, Calculations, Set Value, Add, Insert, Copy, Delete, Move Up, Move Down, and Save Options (Precision). At the bottom, there is a status bar with "ENDDATA", "ENDSUBENT", and "ENDENTRY" labels, and a taskbar showing the Start button and several open applications including Microsoft Outlook, Exfor_Editor, and EXFOR editor.

DATA input

Import data

The screenshot displays the EXFOR editor interface. The main window shows a 'Data Table' with two rows of data:

	1	2	3
1	ANG	DATA	
2	ADEG	NO-DIM	

An 'Import' dialog box is open, allowing the user to specify file format and options. The 'File Name' field is highlighted by an arrow from the 'Import data' text. The dialog includes sections for 'Import Options' (Separator and Line End), 'Source' (Columns and Rows), and 'Destination' (Existing Table and New Table).

On the right side of the interface, there is a 'Current Subentry' panel for 'D0349002' with various control buttons for 'DATA' (Import, Sort, Paste, Chart, Clear All) and 'Column' (Add, Insert, Copy, Delete, Rename, Move Left, Move Right, Calculations, Set Value). Below this are 'Row' control buttons (Add, Insert, Copy, Delete, Move Up, Move Down) and 'Save Options' (Precision).

At the bottom of the window, a data table shows numerical values:

2.4420E+3	1.09
2.4670E+3	0.63
2.4920E+3	0.82
2.5170E+3	0.95

The Windows taskbar at the bottom shows the Start button and several open applications: Inboxes - Microsoft Outlook, 2007, Exfor_Editor, EXFOR editor, and Microsoft PowerPoint - [...]. The system clock shows 12:48.

DATA input

Preview data

The screenshot displays the EXFOR editor interface. The main window shows a tree view on the left with folders for ENTRY, SUBENT, COMMON, and DATA. The central area contains a 'Data Table' with two rows:

	1	2
ANG	DATA	
ADEG	NO-DIM	

A 'Preview of File D:\reports\india\2007\325dp7_170.txt' dialog box is open, showing the following data:

```
Theta: 170.00
Sigfactors: 1.00 0.00 e-1v1=3223
Enfactors: 1.00 0.00 0.00 0.00
Units: mb
Data:
1966.000 2.000 1.210 0.100
1991.000 2.000 1.450 0.120
2016.000 2.000 0.950 0.080
2041.000 2.000 0.230 0.020
2066.000 2.000 0.370 0.030
2091.000 2.000 0.520 0.040
2116.000 2.000 0.600 0.050
2141.000 2.000 0.750 0.060
2166.000 2.000 1.330 0.110
2191.000 2.000 1.070 0.090
2216.000 2.000 1.330 0.110
2241.000 2.000 1.380 0.110
2267.000 2.000 1.650 0.130
2292.000 2.000 1.460 0.120
2317.000 2.000 1.210 0.100
2342.000 2.000 2.300 0.180
2367.000 2.000 2.650 0.210
2392.000 2.000 2.650 0.210
2417.000 2.000 1.830 0.150
2442.000 2.000 1.090 0.090
2467.000 2.000 0.630 0.050
2492.000 2.000 0.820 0.070
2517.000 2.000 0.950 0.080
```

Below the preview window, a table shows the following values:

2.4420E+3	1.09
2.4670E+3	0.63
2.4920E+3	0.82
2.5170E+3	0.95

The interface includes a menu bar (File, Section input, Keyword input, Edit, Processing, Tools, Help), a toolbar, and a status bar at the bottom showing the Windows taskbar with various open applications like Microsoft Outlook and PowerPoint.

DATA input

Mark needed parameters

The screenshot shows the EXFOR editor interface. The 'Import' dialog box is open, displaying the following settings:

- File Name: D:\reports\india\2007\336dp7_170.txt
- File Format: Text, WORD, EXCEL
- Separator: <SPACE>, <TAB>, <,>
- Line End: <CR>, <LF>, <LF-><CR>
- Source Columns: Start Number: 1, Number of Columns: 1, To the End of Line
- Rows: Start Number: 5, Number of Rows: 1, To the End of File
- Destination: Existing Table: Start Column Number: 1, Start Row Number: 3, Add to the End of Table, New Table

The 'Data Table' window shows the following data:

	1	2	3
1	ANG	DATA	
2	ADEG	NO-DIM	

The 'Current Subentry' window shows 'D0349002' and various control buttons for DATA, Column, Row, and Save Options.

The taskbar at the bottom shows the Start button, several application icons, and the following open windows: 'Inbox - Microsoft Outlook', '2007', 'Exfor_Editor', 'EXFOR editor', and 'Microsoft PowerPoint - [...]'.

DATA input

result

The screenshot displays the EXFOR editor interface. The main window shows a 'Data Table' with 29 rows of data. The first three rows are headers: 'ANG', 'A DEG', and 'NO-DIM'. The remaining rows contain numerical data. A control panel on the right side of the window provides various functions for editing the data table, such as 'Import', 'Sort', 'Paste', 'Chart', 'Clear All', 'Add', 'Insert', 'Copy', 'Delete', 'Move Left', 'Move Right', 'Calculations', 'Set Value', 'Add', 'Insert', 'Copy', 'Delete', 'Move Up', 'Move Down', and 'Save Options' (Precision). The 'Current Subentry' is identified as 'D0349002'. The bottom of the screen shows the Windows taskbar with the Start button and several open applications: Inboxes - Microsoft Outlook, 2007, Exfor_Editor, EXFOR editor, and Microsoft PowerPoint - [...]. The system clock shows 13:04.

1	ANG	DATA		
2	A DEG	NO-DIM		
3	Data:			
4	1966.000	2.000	1.210	0.100
5	1991.000	2.000	1.450	0.120
6	2016.000	2.000	0.950	0.080
7	2041.000	2.000	0.230	0.020
8	2066.000	2.000	0.370	0.030
9	2091.000	2.000	0.520	0.040
10	2116.000	2.000	0.600	0.050
11	2141.000	2.000	0.760	0.060
12	2166.000	2.000	1.330	0.110
13	2191.000	2.000	1.070	0.090
14	2216.000	2.000	1.330	0.110
15	2241.000	2.000	1.380	0.110
16	2267.000	2.000	1.650	0.130
17	2292.000	2.000	1.460	0.120
18	2317.000	2.000	1.210	0.100
19	2342.000	2.000	2.300	0.180
20	2367.000	2.000	2.650	0.210
21	2392.000	2.000	2.650	0.210
22	2417.000	2.000	1.830	0.150
23	2442.000	2.000	1.090	0.090
24	2467.000	2.000	0.630	0.050
25	2492.000	2.000	0.820	0.070
26	2517.000	2.000	0.950	0.080
27	2542.000	2.000	0.930	0.080
28	2567.000	2.000	0.510	0.040
29	2592.000	2.000	0.410	0.040

DATA input

Rename columns

The screenshot displays the EXFOR editor interface. The main window shows a data table with 29 rows and 4 columns. The first two columns are labeled 'ANG' and 'ADEC', and the last two are 'DATA' and 'NO-DIM'. A dialog box titled 'Column Title for Data Table' is open, showing the 'Old Heading' as 'DATA' and 'Old Units' as 'NO-DIM'. The dialog has fields for 'Heading' and 'Units', and 'Rename' and 'Cancel' buttons. A black arrow points from the text 'Rename columns' to the 'Rename' button in the dialog box.

Row	ANG	ADEC	DATA	NO-DIM
1	ANG	ADEC	DATA	NO-DIM
2	ADEC	NO-DIM		
3	Data:			
4	1966.000	2.000	1.210	0.100
5	1991.000	2.000	1.450	0.120
6	2016.000	2.000	0.950	0.080
7	2041.000	2.000	0.230	0.020
8	2066.000	2.000	0.370	0.030
9	2091.000	2.000	0.520	0.040
10	2116.000	2.000	0.600	0.050
11	2141.000	2.000	0.760	0.060
12	2166.000	2.000	1.330	0.110
13	2191.000	2.000	1.070	0.090
14	2216.000	2.000	1.330	0.110
15	2241.000	2.000		
16	2267.000	2.000		
17	2292.000	2.000		
18	2317.000	2.000		
19	2342.000	2.000		
20	2367.000	2.000		
21	2392.000	2.000		
22	2417.000	2.000		
23	2442.000	2.000	1.090	0.090
24	2467.000	2.000	0.630	0.050
25	2492.000	2.000	0.820	0.070
26	2517.000	2.000	0.950	0.080
27	2542.000	2.000	0.930	0.080
28	2567.000	2.000	0.510	0.040
29	2592.000	2.000	0.410	0.040

DATA input

Delete column

The screenshot shows the EXFOR editor interface. A 'Data Table' window is open, displaying a table with columns: 1, 2, EN, MEV, DATA NO-DIM, and DATA-ERR NO-DIM. A 'Confirmation' dialog box is overlaid on the table, asking 'Delete column EN?' with 'Yes' and 'No' buttons. The table data is as follows:

1	2	EN	MEV	DATA NO-DIM	DATA-ERR NO-DIM
3	1966	2		1.21	0.1
4	1991	2		1.45	0.12
5	2016	2		0.95	0.08
6	2041	2		0.23	0.02
7	2066	2		0.37	0.03
8	2091	2		0.52	0.04
9	2116	2		0.6	0.05
10	2141	2		0.76	0.06
11	2166	2		1.33	0.11
12	2191	2		1.07	0.09
13	2216	2		1.33	0.11
14	2241	2		1.38	0.11
15	2267	2		1.65	0.13
16	2292				
17	2317				
18	2342				
19	2367				
20	2392				
21	2417				
22	2442				
23	2467				
24	2492				
25	2517	2		0.95	0.08
26	2542	2		0.93	0.08
27	2567	2		0.51	0.04
28	2592	2		0.41	0.04

Below the table, there is a summary of data points:

2.2920E+3	2.	1.46	0.12
2.3170E+3	2.	1.21	1.0000E-1
2.3420E+3	2.	2.3	0.18
2.3670E+3	2.	2.65	0.21

The 'Confirmation' dialog box contains a green question mark icon and the text 'Delete column EN?' with 'Yes' and 'No' buttons.

DATA input

The screenshot shows the EXFOR editor interface. The main window displays a data table with the following structure:

Column: 1	Row: 86	Total: 88	Insert	D:\complat\D0349.exf	SUBENTRY D0349002
ENDBIB					
COMMON		2	3		
EN		+DATA-ERR1			
MEV		MB/MEV			
2.0		8.			
ENDCOMMON					
DATA		3	26		
ANG		DATA	DATA-ERR		
ADEG		NO-DIM	NO-DIM		
1.9660E+3		1.21	1.0000E-1		
1.9910E+3		1.45	0.12		
2.0160E+3		0.95	8.0000E-2		
2.0410E+3		0.23	2.0000E-2		
2.0660E+3		0.37	3.0000E-2		
2.0910E+3		0.52	4.0000E-2		
2.1160E+3		0.6	5.0000E-2		
2.1410E+3		0.76	6.0000E-2		
2.1660E+3		1.33	0.11		
2.1910E+3		1.07	9.0000E-2		
2.2160E+3		1.33	0.11		
2.2410E+3		1.38	0.11		
2.2670E+3		1.65	0.13		
2.2920E+3		1.46	0.12		
2.3170E+3		1.21	1.0000E-1		
2.3420E+3		2.3	0.18		
2.3670E+3		2.65	0.21		
2.3920E+3		2.65	0.21		
2.4170E+3		1.83	0.15		
2.4420E+3		1.09	9.0000E-2		
2.4670E+3		0.63	5.0000E-2		
2.4920E+3		0.82	7.0000E-2		
2.5170E+3		0.95	8.0000E-2		
2.5420E+3		0.93	8.0000E-2		
2.5670E+3		0.51	4.0000E-2		
2.5920E+3		0.41	4.0000E-2		
ENDDATA					
ENDSUBENT					

An arrow points from the text "Data presentation result" to the table content.

DATA input

Mark all parameters needed

The screenshot shows the EXFOR editor interface. A 'Data Table' window is open, displaying a list of data entries. A 'Data Precision' dialog box is overlaid on the table, allowing users to specify formatting for selected columns. The dialog has two tabs: 'Fixed Point Format' and 'Scientific Format'. In the 'Fixed Point Format' tab, the 'Number of Digits after Decimal Point' is set to 5, and the 'Erase Trailing Zero' checkbox is checked. In the 'Scientific Format' tab, the 'Total Number of Digits before Exponent' is set to 6. The dialog also includes options to 'Set This Format for All Columns' or 'as Default'. The data table shows columns for 'Column Title', 'DATA', and 'DATA-ERR'. The 'DATA' column contains values like 1.21, 1.45, 0.95, etc. The 'DATA-ERR' column contains values like 0.1, 0.12, 0.08, etc. The 'Data Precision' dialog is currently open for the 'DATA' column.

Column Title	DATA	DATA-ERR
ANG		
ADEG		
1966	1.21	0.1
1991	1.45	0.12
2016	0.95	0.08
2041	0.23	0.02
2066	0.37	0.03
2091	0.52	0.04
2116	0.6	0.05
2141	0.76	0.06
2166		
2191		
2216		
2241		
2267		
2292		
2317		
2342		
2367		
2392		
2417		
2442		
2467		
2492		
2517		
2542		
2567		
2592		

2.5670E+3 0.51 4.0000E-2
2.5920E+3 0.41 4.0000E-2
ENDDATA
ENDSUBENT

DATA input

Nuclear data compilation into database EXFOR

File Section input Keyword input Edit Processing Tools Help

EXFOR new file EXFOR wizard Sort Order Chart Check

TITLE AUTHOR INSTITUTE REFERENCE FACILITY SAMPLE DETECTOR METHOD ANALYSIS ERR-ANALYSIS REACTION CURRENT EDIT

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA

ENTRY D0349
 SUBENT D0349001
 BIB
 COMMON
 SUBENT D0349002
 BIB
 COMMON
 DATA

Column: 1 Row: 86 Total: 88 Insert D:\complat\D0349.exf SUBENTRY D0349002
 NewExf00 d0449.EXF D0333.exf D0349.exf

Column 1	Column 2	Column 3	Column 4
ENDBIB			
COMMON	2	3	
EN	+DATA-ERR1		
MEV	MB/MEV		
2.0	8.		
ENDCOMMON			
DATA	3	26	
ANG	DATA	DATA-ERR	
ADEG	NO-DIM	NO-DIM	
1.9660E+03	1.21	0.100	
1.9910E+03	1.45	0.120	
2.0160E+03	0.95	0.080	
2.0410E+03	0.23	0.020	
2.0660E+03	0.37	0.030	
2.0910E+03	0.52	0.040	
2.1160E+03	0.6	0.050	
2.1410E+03	0.76	0.060	
2.1660E+03	1.33	0.110	
2.1910E+03	1.07	0.090	
2.2160E+03	1.33	0.110	
2.2410E+03	1.38	0.110	
2.2670E+03	1.65	0.130	
2.2920E+03	1.46	0.120	
2.3170E+03	1.21	0.100	
2.3420E+03	2.3	0.180	
2.3670E+03	2.65	0.210	
2.3920E+03	2.65	0.210	
2.4170E+03	1.83	0.150	
2.4420E+03	1.09	0.090	
2.4670E+03	0.63	0.050	
2.4920E+03	0.82	0.070	
2.5170E+03	0.95	0.080	
2.5420E+03	0.93	0.080	
2.5670E+03	0.51	0.040	
2.5920E+03	0.41	0.040	
ENDDATA			
ENDSUBENT			

result

1 12 23 34 45 56 67

Start Inbox - Microsoft Outlook 2007 Exfor_Editor EXFOR editor Microsoft PowerPoint - [... EN 13:13

DATA input

Delete table

The screenshot shows the EXFOR software interface. The main window displays a 'Data Table' with 28 rows and 4 columns: 'FACILITY', 'SAMPLE', 'DETECTOR', and 'METHOD'. The table data is as follows:

	FACILITY	SAMPLE	DETECTOR	METHOD
1	ANG	DATA	NO-DIM	NO-DIM
2	ADEG	NO-DIM	NO-DIM	
3	1966	1.21	0.1	
4	1991	1.45	0.12	
5	2016	0.95	0.08	
6	2041	0.23	0.02	
7	2066	0.37	0.03	
8	2091	0.52	0.04	
9	2116	0.6	0.05	
10	2141	0.76	0.06	
11	2166	1.33	0.11	
12	2191	1.07	0.09	
13	2216	1.33	0.11	
14	2241	1.38	0.11	
15	2267	1.65	0.13	
16	2292	1.46	0.12	
17	2317	1.21	0.1	
18	2342	2.3	0.18	
19	2367	2.65	0.21	
20	2392	2.65	0.21	
21	2417	1.83	0.15	
22	2442	1.09	0.09	
23	2467	0.63	0.05	
24	2492	0.82	0.07	
25	2517	0.95	0.08	
26	2542	0.93	0.08	
27	2567	0.51	0.04	
28	2592	0.41	0.04	

A 'Delete Rows' dialog box is open, showing 'Current row: 3' and 'Number of Rows to Delete: 3'. The checkbox 'To the End of Table' is checked. The dialog has 'OK' and 'Cancel' buttons.

The software interface includes a menu bar (File, Section input, Keyword input, Edit, Processing, Tools, Help), a toolbar, and a sidebar with a tree view showing the project structure. The status bar at the bottom shows the Windows taskbar with various open applications and the time 13:30.

DATA input

Mark parameters needed
or look PREVIEW

The screenshot displays the EXFOR software interface. The main window shows a 'Data Table' with the following content:

	TITLE	AUTHOR	INSTITUTE	REFERENCE	FACILITY	SAMPLE	DETECTOR	METHOD	ANALYSIS	ERR-ANALYS	REACTION	CURRENT EDIT
1	ANG		DATA		DATA-ERR							
2	ADEG		NO-DIM		NO-DIM							
3												

A 'Paste' dialog box is open, showing 'Paste Options' with the following settings:

- Separator: <SPACE>
- Line End: <CR><LF>
- Destination: Existing Table
- Start Column Number: 1
- Start Row Number: 3
- Add to End of Table
- New Table

The 'Preview' button in the dialog box is highlighted by an arrow from the text 'Mark parameters needed or look PREVIEW'. The main window also shows a tree view on the left with 'ENTRY D0349' and 'SUBENT D0349001' selected, and a 'Current Subentry' panel on the right showing 'D0349002'. The status bar at the bottom shows the current row is 12.

DATA input

result

The screenshot displays the EXFOR editor software interface. The main window is titled "Nuclear data compilation into database EXFOR". The menu bar includes "File", "Section input", "Keyword input", "Edit", "Processing", "Tools", and "Help". The toolbar contains icons for file operations and editing. The main area is divided into a left sidebar, a central data table, and a right-hand control panel.

The left sidebar shows a tree view of the data structure:

- ENTRY D0349
 - SUBENT D0349001
 - BIB_
 - COMMON
 - SUBENT D0349002
 - BIB_
 - DATA_

The central "Data Table" contains the following data:

	ANG	DATA	DATA-ERR
1	ANG	DATA	DATA-ERR
2	ADEG	NO-DIM	NO-DIM
3	8.2	7.18	0.8
4	37.2	7.441	0.324
5	42.6	6.569	0.202
6	44.4	6.28	0.6
7	51.4	4.124	0.209
8	53.4	5.009	0.222
9	56.7	4.305	0.134
10	58.8	3.689	0.155
11	64	2.741	0.147
12	69.3	1.745	0.113
13	67.3	2.612	0.122
14	72.5	1.277	0.073
15	77.7	1.119	0.081
16	82.9	0.572	0.05

The right-hand control panel, titled "Current Subentry D0349002", includes sections for:

- DATA:** Import, Sort, Paste, Chart, Clear All
- Column:** Add, Insert, Copy, Delete, Rename, Move Left, Move Right, Calculations, Set Value
- Row:** Add, Insert, Copy, Delete, Move Up, Move Down
- Save Options:** Precision

At the bottom of the main window, there are buttons for "Add Data Table", "Cancel", "Help", and "EXFOR-Help". The status bar at the very bottom shows the Windows taskbar with various open applications and the system clock at 13:32.

DATA input

Nuclear data compilation into database EXFOR

File Section input Keyword input Edit Processing Tools Help

EXFOR new file EXFOR wizard Sort Order Chart Check

TITLE AUTHOR INSTITUTE REFERENCE FACILITY SAMPLE DETECTOR METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT

SUBENTRY001 SUBENTRY001-wizard SUBENTRY SUBENTRY-wizard COMMON DATA

ENTRY D0349
 SUBENT D0349001
 BIB
 COMMON
 SUBENT D0349002
 BIB
 DATA

Column: 1 Row: 70 Total: 72 Insert D:\complat\D0349.exf SUBENTRY D0349002

NewEx00 d0449.EXF D0333.exf D0349.exf

inelastic-scattering data at the forward and backward angles.
 STATUS (TABLE) Data were reived from Dr. A.T.Rudchik
 HISTORY (20070926C)
 ENDBIB
 COMMON 2
 EN ERR-SYS
 HEV PER-CENT
 51.0 15.0
 ENDCOMMON
 ENDSUBENT
 SUBENT D0349002 20070926
 BIB
 REACTION (3-LI-7(5-B-10,EL),,DA,,RTH)
 ENDBIB
 NOCOMMON
 DATA 3 14
 ANG DATA DATA-ERR
 ADEG NO-DIM NO-DIM

8.2	7.18	0.8
37.2	7.441	0.324
42.6	6.569	0.202
44.4	6.28	0.6
51.4	4.124	0.209
53.4	5.009	0.222
56.7	4.305	0.134
58.8	3.689	0.155
64.	2.741	0.147
69.3	1.745	0.113
67.3	2.612	0.122
72.5	1.277	7.3000E-2
77.7	1.119	8.1000E-2
82.9	0.572	5.0000E-2

ENDDATA
 ENDSUBENT
 ENENTRY

1 12 23 34 45 56 67

Start | Inboxes - Micros... | 2007 | Exfor_Editor | d0378 | EXFOR editor | Microsoft Pow... | fig2 - Notepad | EN | 13:33

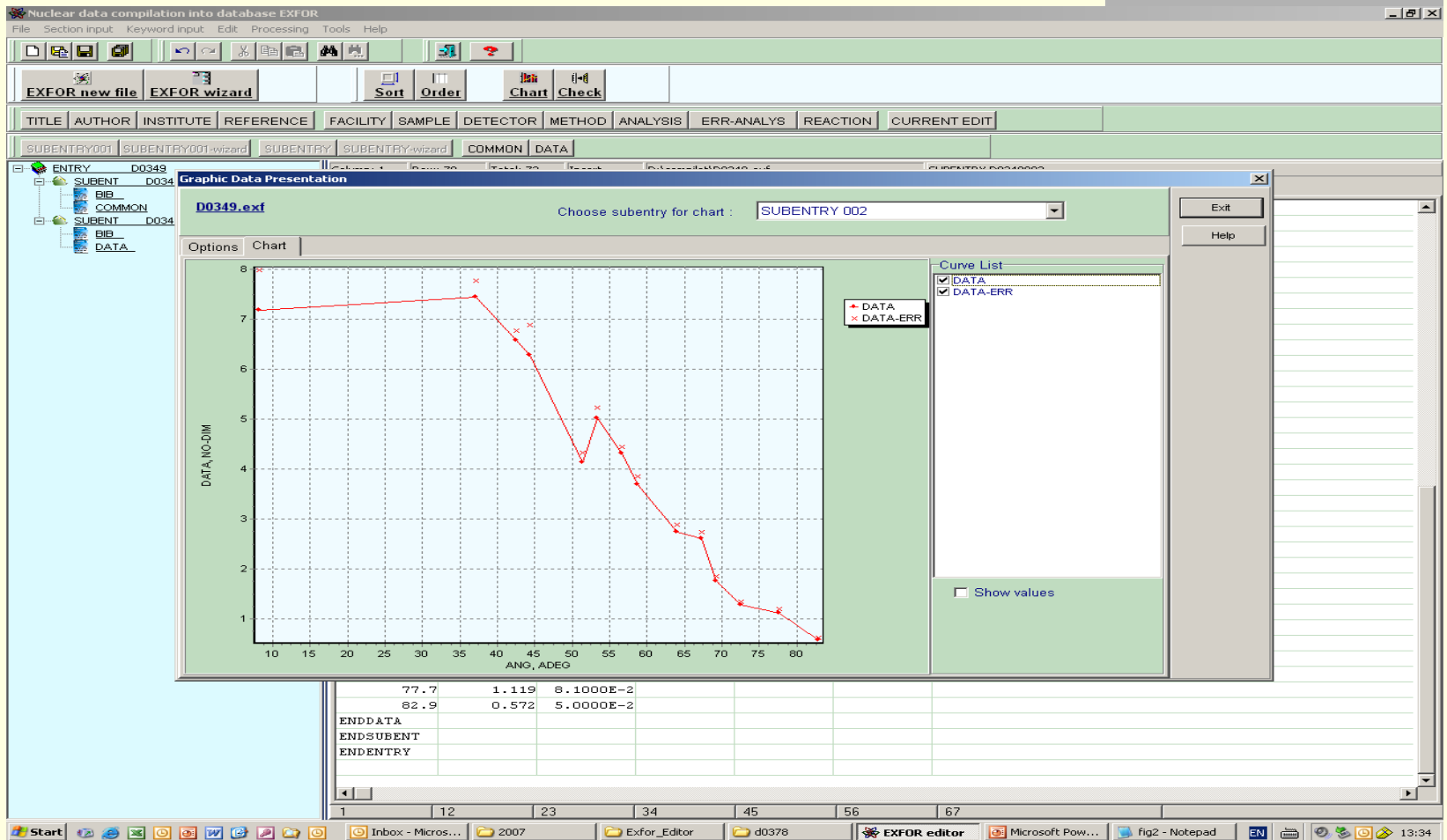
Data chart

Choose parameters for scales

The screenshot displays the EXFOR editor interface. The main window shows a tree view of data files under 'ENTRY D0349', including 'SUBENTRY D034', 'BIB', 'COMMON', and 'DATA'. The 'Graphic Data Presentation' dialog box is open, allowing the user to configure a chart. The 'Abscissa axis (X)' is set to 'ANG', and the 'Ordinate axis (Y)' is set to 'DATA'. The 'Ordinate axis error' is set to 'DATA-ERR'. The 'Logarithmic scale' checkbox is unchecked. The background table shows the following data points:

77.7	1.119	8.1000E-2					
82.9	0.572	5.0000E-2					
ENDDATA							
ENDSUBENT							
ENDENTRY							

Data chart



ORDER program

Nuclear data compilation into database EXFOR

EXFOR new file EXFOR wizard Sort Order Chart Check

TITLE AUTHOR INSTITUTE REFERENCE FACILITY SAMPLE DETECTOR METHOD ANALYSIS ERR-ANALYS REACTION CURRENT EDIT

SUBENTRY001 SUBENT...

ENTRY D0349
 SUBENT D0349
 BIB
 COMMON
 SUBENT D0349
 BIB
 DATA

```

C:\WINDOWS\system32\cmd.exe
-----OK: I =          26
-----OK: TNOM =
D:\compilat\D0349.exf.ord_

Output file labeled
TRANS                20071023
D0349

D:\Exfor_Editor\ORDER\order_windows>pause
Press any key to continue . . .
  
```

REACTION	(3-LI-7 (5-B-10, EL) , , DA, , RTH)		
ENDBIB			
NOCOMMON			
DATA	3		14
ANG	DATA		DATA-ERR
ADEG	NO-DIM		NO-DIM
	8.2	7.18	0.8
	37.2	7.441	0.324
	42.6	6.569	0.202
	44.4	6.28	0.6
	51.4	4.124	0.209
	53.4	5.009	0.222
	56.7	4.305	0.134
	58.8	3.689	0.155
	64.	2.741	0.147
	69.3	1.745	0.113
	67.3	2.612	0.122
	72.5	1.277	7.3000E-2
	77.7	1.119	8.1000E-2
	82.9	0.572	5.0000E-2
ENDDATA			
ENDSUBENT			
ENDENTRY			

1 12 23 34 45 56 67

Start | Inb... - Mic... | 2007 | Exfor_Editor | d0378 | EXFOR editor | Microsoft P... | fig2 - Notepad | C:\WINDO... | EN | 13:35

ORDER program

Check result
and action

The screenshot displays the EXFOR program interface. The main window shows a data entry form with fields for TITLE, AUTHOR, INSTITUTE, REFERENCE, FACILITY, SAMPLE, DETECTOR, METHOD, ANALYSIS, ERR-ANALYSIS, REACTION, and CURRENT EDIT. The current entry is for a silicon detector experiment. A pop-up window titled "ORDER Results for D:\compilat\D0349.exf" is open, displaying the following text:

```
by two types of dE-E telescopes: 1. an ionization chamber (IC) (dE detector) with two entrance windows separated by 9.5. + two 1 mm (E) silicon detectors that formed two separate telescopes: TELES:SI,SI) Third telescope was with 67 mu-m (dE) + 1 mm (E) silicon detectors positioned independently from the other two.
ERR-ANALYSIS (ERR-S) statistical errors, including uncertainties from the spectrum fitting procedure. (ERR-SYS) The normalization error. The angular distribution of the elastic scattering was normalized to the Optical Model(MO) cross-section at small angles. The same factor was used to normalize the angular distributions for both elastic- and inelastic-scattering data at the forward and backward angles.
STATUS (TABLE) Data were reived from Dr. A. T. Rudchik (20070926C)
HISTORY
ENDBIE
COMMON
EN
MEV
S1 0
ENDCOMMON
ENDSUBENT
SUBENT
BIB
REACTION (3-LI-7(5-B-10,EL)..DA..RTH)
ENDBIB
NOCOMMON
DATA
ANG DATA DATA-ERR
ADEG NO-DIM NO-DIM
8.2 7.18 0.8
```

The results window also includes a table of data points:

Column	Row	Total	Insert	D:\compilat\D0349.exf	SUBENTRY D0349002
1	70	72			
NewEx00	d0449.EXF	D0333.exf	D0349.exf		

The interface also shows a "Save" button and a "Close" button in the results window. The taskbar at the bottom shows the Start button and several open applications including "Inbox - Micros...", "2007", "Exfor_Editor", "d0378", "EXFOR editor", "Microsoft Pow...", and "fig2 - Notepad".

CHEX program

Window with result

The screenshot displays the EXFOR editor interface. The main window shows a table of nuclear data entries. An error window titled "Errors for D:\compilat\D0349.exf" is overlaid on the table, listing several errors for entry D0349. The error window contains the following text:

```
Input file: D:\compilat\D0349.exf
ENTRY D0349
** Label invalid or missing
ENTRY D0349 20070926 D0349000 1
** End-of-file found while looking for: ENTRY
First pass completed with no fatal errors
- Second pass checking -
ENTRY D0349
** Date out of legal range D0349001
REFERENCE (J,EPJ/A,33,317,202007) D0349001 14
** Missing code in field 4
REACTION (3-LI-7(5-B-10,EL),,DA,,RTH) D0349002 3
** Missing data heading ERR-3 D0349002
** Nonmonotonic data field ANG
67.3 2.612 0.122 D0349002 19
*****
```

The background table shows the following data:

ENTRY	SUBENT	DATE	REACT	ERR-ANALYS	REACT	ERR-ANALYS	REACT	ERR-ANALYS	REACT	ERR-ANALYS
ENDSUBENT	43	0			D0349	199999				
SUBENT	D0349002	20070926			D0349	2	1			
BIB	1	1			D0349	2	2			
REACTION	(3-LI-7(5-B-10,EL),,DA,,RTH)				D0349	2	3			
ENDBIB	1	0			D0349	2	4			
NOCOMMON	0	0			D0349	2	5			
DATA	3	14			D0349	2	6			
ANG	DATA	DATA-ERR			D0349	2	7			
ADEG	NO-DIM	NO-DIM			D0349	2	8			
	8.2	7.18	0.8		D0349	2	9			
	37.2	7.441	0.324		D0349	2	10			

CHEX program

File name: D0349.exf.err

ZCHEX (Version 2007-10-02) run on 23-Oct-2007

Input file: D:\compilat\D0349.exf

ENTRY D0349

** Label invalid or missing

ENTRY D0349 20070926 D0349000 1

** End-of-file found while looking for: ENTRY

First pass completed with no fatal errors

1

- Second pass checking -

ENTRY D0349

** Date out of legal range

REFERENCE (J,EPJ/A,33,317,202007) D0349001 14
~~~~~

\*\* Missing code in

REACTION (3-LI-7(5-B-10,EL),,DA,,RTH) D0349002 3  
^

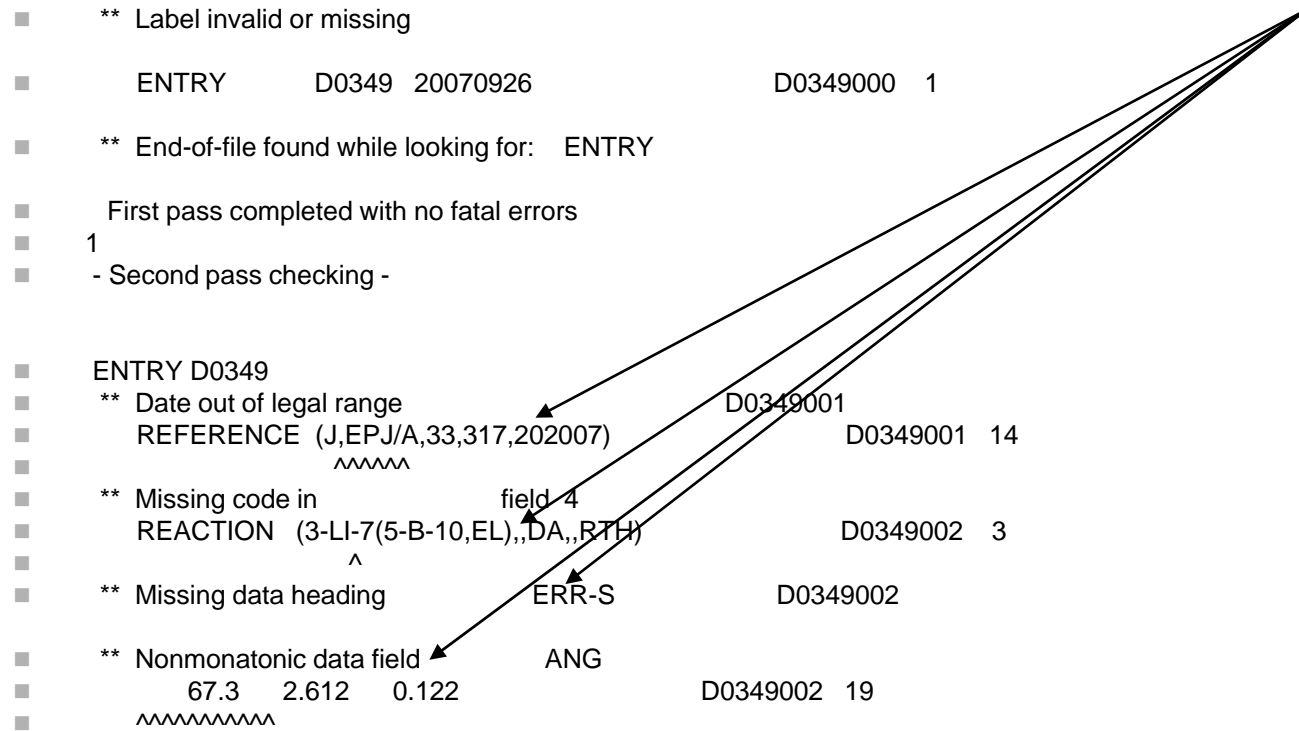
\*\* Missing data heading

ERR-S D0349002  
ANG

\*\* Nonmonotonic data field

67.3 2.612 0.122 D0349002 19  
~~~~~

mistakes



Corrections:

Year, add SF4, change DATA-ERR to ERR-S

The screenshot shows the EXFOR editor interface with a data table. The table has columns for various fields and their values. Three arrows from the text above point to specific rows:

- Arrow 1 points to the year '20070926' in the second column of the first row.
- Arrow 2 points to the REACTION field '3-LI-7(5-B-10,EL)5-B-10,,D&,RTH' in the first row.
- Arrow 3 points to the 'DATA' field in the 'ANG' row, which is being corrected to 'ERR-S'.

Field	Value	Column	Row	Total	Insert	Id	Path	File		
ENTRY	D0349	20070926	1	45		D0349	D:\complat\	D0349001		
SUBENT	D0349001	20070926	1			D0349		D0349001		
BIB	11	36	2			D0349		D0349002		
TITLE	Isotopic effects in the $7\text{Li} + 10,11\text{B}$ elastic and inelastic scattering							D0349	1	3
AUTHOR	(A. T. Rudchik, V. O. Romanyshyn, E. I. Koshchy, A. Budzanowski, K. M. Kemper, K. Rusk, V. D. Chesnokov, J. Choinski, B. Czech, L. Glowacka, S. Kliszewski, V. M. Kyryanchuk, S. Yu. Mezhevych, A. V. Mokhnach, O. A. Momotyuk, O. A. Fonkratenko, R. Siudak, I. Skwirczynska, A. Szczurek)							D0349	1	5
INSTITUTE	(4UKRIJD, 4UKRRHU, 3POLIFJ, 1USAFSU, 3POLIPJ, 3POLWWA) (3POLPOL) Institute of Applied Physics, MUT, ul. Kaliskiego 2, PL-00-908 Warsaw, Poland							D0349	1	10
REFERENCE	(J,EPJ/A,33,317,2007)							D0349	1	14
FACILITY	(CYCLO,3POLWWA) Warsaw University cyclotron C-200P.							D0349	1	15
ENDSUBENT	43	0	1			D0349		199999		
SUBENT	D0349002	20070926	2			D0349		2		
BIB	1	1	2			D0349		2		
REACTION	(3-LI-7(5-B-10,EL)5-B-10,,D&,RTH)							D0349	2	3
ENDBIB	1	0	4			D0349		2		
NOCOMMON	0	0	5			D0349		2		
DATA	3	14	6			D0349		2		
ANG	DATA	ERR-S	7			D0349		2		
ADEG	NO-DIM	NO-DIM	8			D0349		2		
	8.2	7.18	0.8			D0349		2		
	37.2	7.441	0.324			D0349		2		
	42.6	6.569	0.202			D0349		2		
	44.4	6.28	0.6			D0349		2		
	51.4	4.124	0.209			D0349		2		
	53.4	5.009	0.222			D0349		2		
	56.7	4.305	0.134			D0349		2		
	58.8	3.689	0.155			D0349		2		
	64.	2.741	0.147			D0349		2		
	69.3	1.745	0.113			D0349		2		

After repeating steps with ORDER and CHEX: final result

The screenshot shows the EXFOR editor interface. The main window displays a data table with columns for Column, Row, Total, Insert, and file paths. The data table contains the following entries:

Column	Row	Total	Insert	File Paths
NewEx00	d0449.EXF	D0333.exf	D0349.exf	
				small angles. The same factor was used to normalize D0349 1 33
				the angular distributions for both elastic- and D0349 1 34
				inelastic-scattering data at the forward and D0349 1 35

An error dialog box titled "Errors for D:\compilat\D0349.exf" is overlaid on the main window. The error message reads:

```
ZCHEX (Version 2007-10-02) run on 23-Oct-2007
-----
Input file: D:\compilat\D0349.exf
ENTRY D0349
** Label invalid or missing
ENTRY D0349 20070926 D0349000 1
** End-of-file found while looking for: ENTRY
First pass completed with no fatal errors
1
- Second pass checking -
ENTRY D0349
```

The taskbar at the bottom shows the Start button and several open applications: Inboxes - Microsoft Outlook, 3 Windows Explorer, EXFOR editor, Microsoft PowerPoint, and Document2 - Microsoft Word.