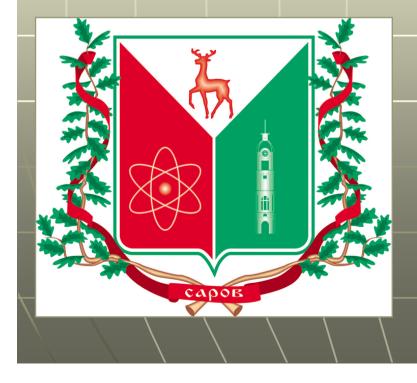
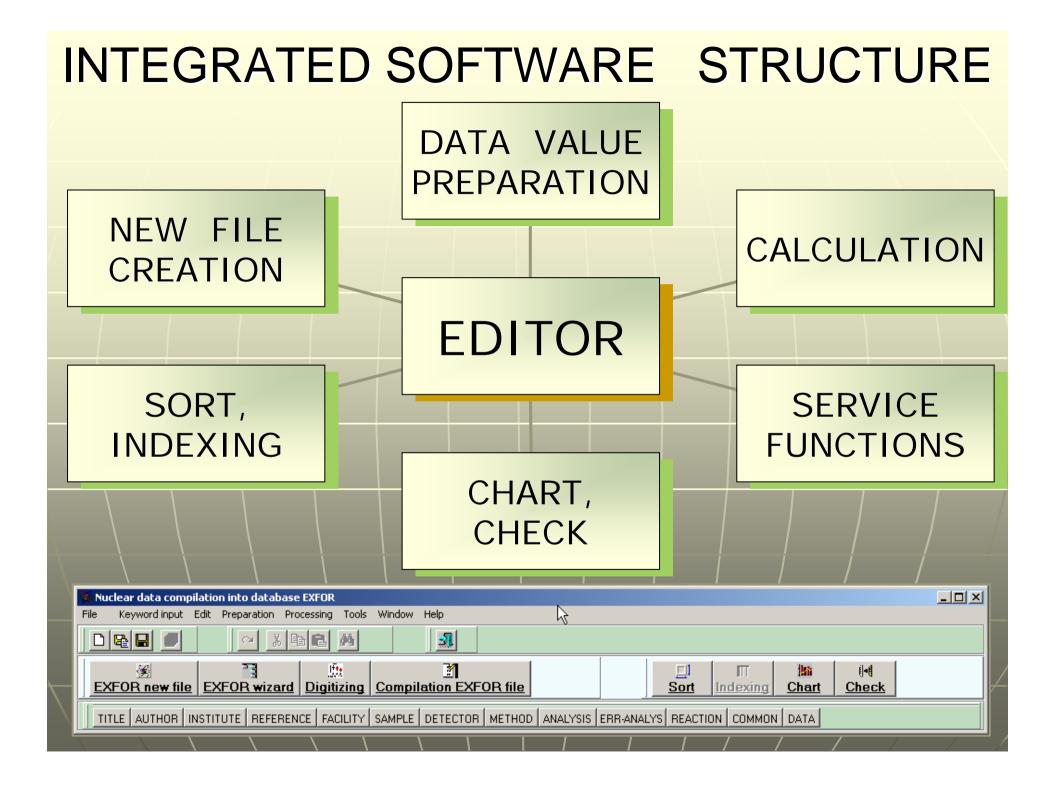
NUCLEAR DATA COMPILATION INTO DATABASE EXFOR



INTEGRATED ENVIROMENT





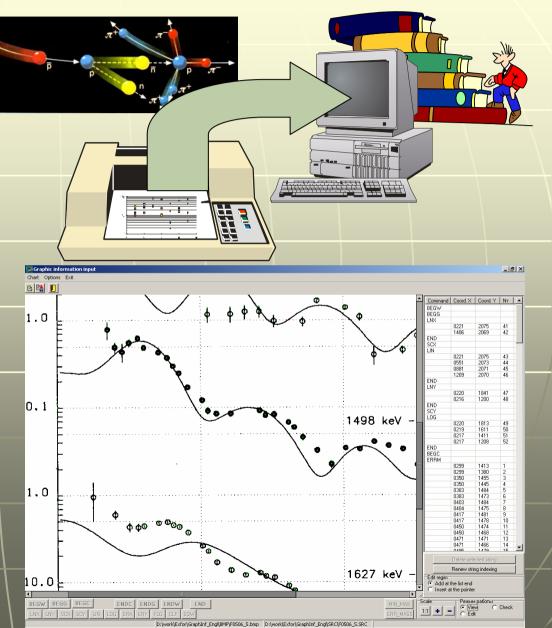
EDITOR FUNCTIONS

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	ENTRY	F0088	20041110			F00880000000
	SUBENT	F0088001	20041110			F00880010000:
E SUBENT F0088002	BIB	14	39			F008800100002
BIB	TITLE	Deep proton-ho	le states in 147	Pr, 151Pm and	155Eu	F00880010000
COMMON	AUTHOR		A.England, G.M.Fi			F00880010000+
□ <u> </u>		M.Becha, C.N.H	Pinder, G.C. Morris	on, M. Bently, F	.Fallon,	F00880010000
		R.Moktah, J.W.	Roberts, J.F.Shar	pey-Schafer)		F00880010000
COMMON	INSTITUTE	(2UK BIR)				F00880010000'
		(2UK LVP)				F008800100008
SUBENT F0088004	REFERENCE	(J,NP/A,510,44	1,1990)			F00880010000
BIB COMMON	FACILITY		NSF tandem acce	lerator at Da	resbury	F008800100010
			s of tritons were		-	F00880010001:
SUBENT F0088005		varied from 20		ubcu. bcu. c	arrenop	F008800100012
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SUBENT F0088006			Celescopes with 5		ium drifted	
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COMMON DATA			-detectors were			F00880010001
E- 6 SUBENT F0088007			icle-identificati		used for	F008800100018
BIB			analog signals i			
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DATA_			oy signal pile-up		counting ~	F00880010002
SUBENT F0088008 BIB	SAMPLE		e value was 80-10			F008800100022
	SAMPLE	-	self-supporting,			F008800100023
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BIB		0.01 mg/cm2 ar	nd 156Gd(93.6%) (.592+-0.014 n	ng/cm2.	F00880010002
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Standard editor functions Window with a keyword tree Grid in the editor area Special ruler with the column numbers Automation search and input of the keywords and codes in the dictionaries Input limitation on the 67th position

DATA VALUE PREPARATION

- Graphic data digitizing
- Calculation of the physics process values in the experiment coordinate scale
- Inserting the obtained digitized data into the EXFOR file

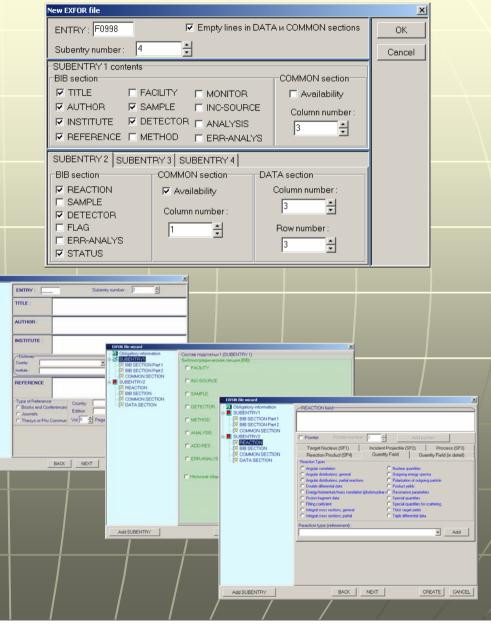


NEW FILE CREATION

RESECTION

Add SUBENTRY

- Creation of the **EXFOR** new file with the help of pattern
- Creation of the **EXFOR** new file by means of a wizard using the **EXFOR** dictionaries



FILE PROCESSING

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		20		0,23		0,48		16,837		2,1944			
		21		0,23		0,48		18,936		1,3511			
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Sort of the entered numerical data Indexing the edited file records according to the rules of the **EXFOR** record identification

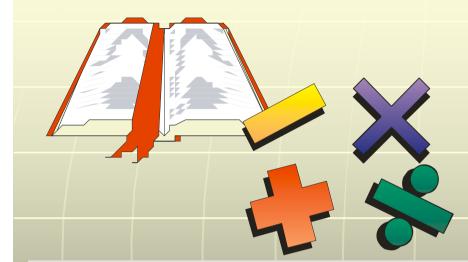
EXFOR FILE CHECKING

Plotting data section tables Checking the edited file for its correspondence to the EXFOR format

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ADDITIONAL SERVICE

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Direct access to the EXFOR dictionaries Additional calculations Extended help system

New Window Caption

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<u> У</u>казатель Поис<u>к</u>

Введите ключевое слово для поиска:

Angle/energy correlations

Absorption Activation Adler-Adler parameters Alloys Alpha Analysis Analyzing power Angle Angle/energy correlations

Angle/energy distributions Angular correlation Angular distributions Arbitrary units Assumed values Astrophysical S-factor Asymmetry Author Author Average data Average data Average kinetic energy Average level-spacing Average sonance parameters Averaged widths

Показать

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Differential Data

(See also Fitting Coefficients, Angle, Polarization)

<u>Definitions</u>

<u>Reaction plane</u>: The plane defined by the incident beam direction and the outgoing particle direction. For the following discussions plane A is defined by the incident beam direction and the outgoing particle a direction

Differential data refers, in general, to:

- the particle given in the REACTION string SF3,
- for production or fission, the product given in SF4 or in the data table
- the particle defined in the REACTION string SF7

A particle must be specified in SF7 (particle considered) if:

- there is more than one particle given in SF3,
- the data refers to a different particle or nuclide than those specified above,
- or the data refers to more than one outgoing particle.

Angular Distributions

1. <u>Angular distribution</u>: probability for a particle to be emitted into an area of solid angle $d\Omega$ lying at a mean angle of θ to the incident beam direction in the reaction plane; given as σ $(\theta) = d\sigma/d\Omega$. The data are given in units of cross section per unit solid angle (e.g., mb/sr).

CONCLUSIONS

- At present we work on realization of the listed functions.
- We are glad to improve the program structure taking into account the users' requests and to consider any critical comments and proposals.
- The developed integrated software meets the requirements of experimental crosssection data processing.