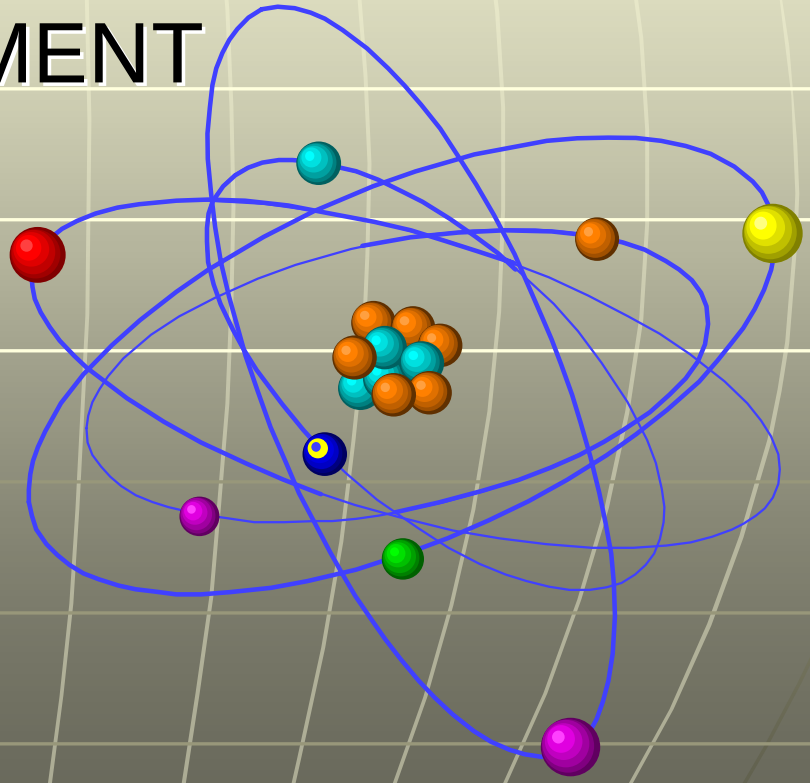
NUCLEAR DATA COMPILATION INTO DATABASE EXFOR

INTEGRATED ENVIROMENT



INTEGRATED SOFTWARE STRUCTURE

DATA VALUE PREPARATION

NEW FILE CREATION

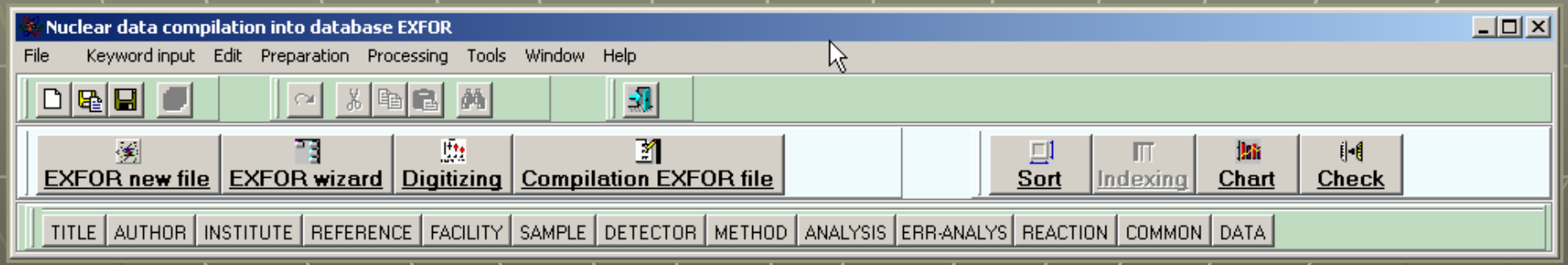
CALCULATION

EDITOR

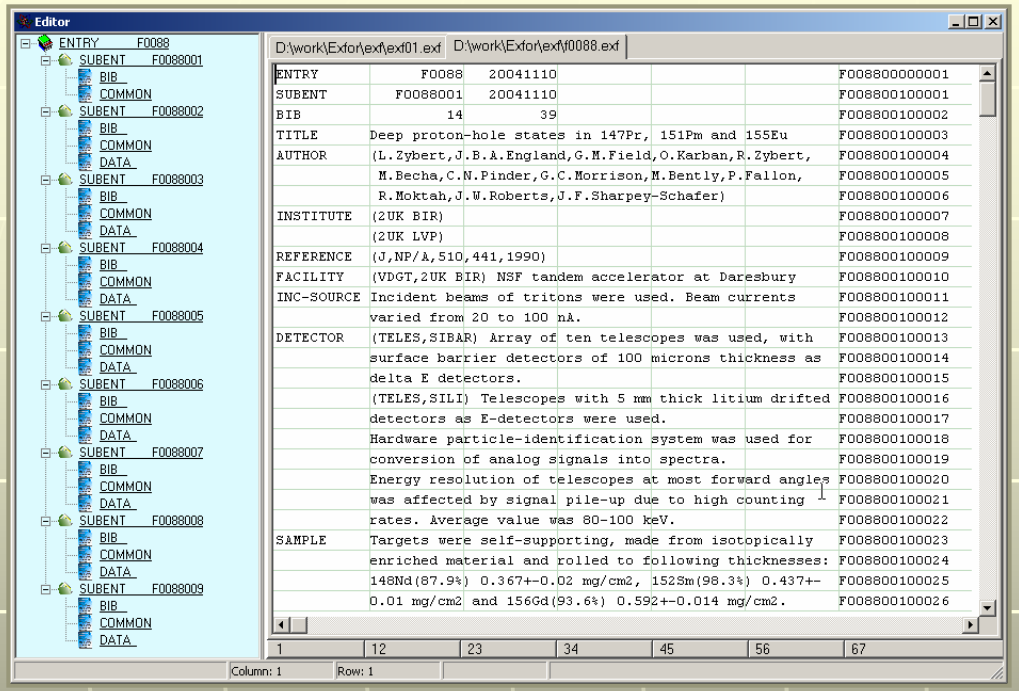
SORT, INDEXING

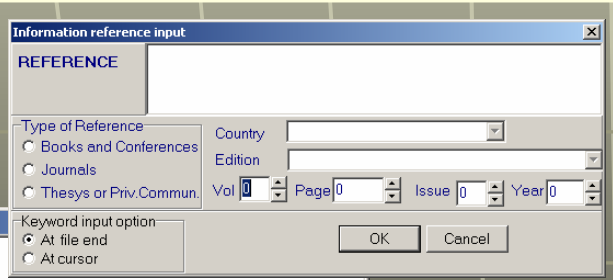
SERVICE FUNCTIONS

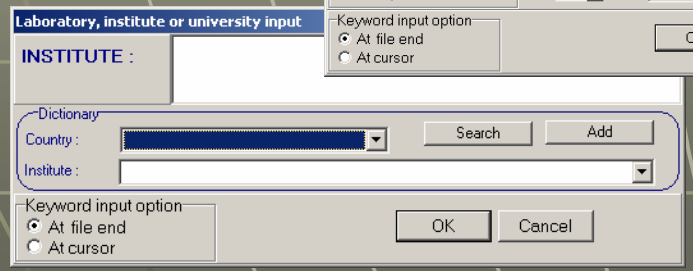
CHART, CHECK



EDITOR FUNCTIONS



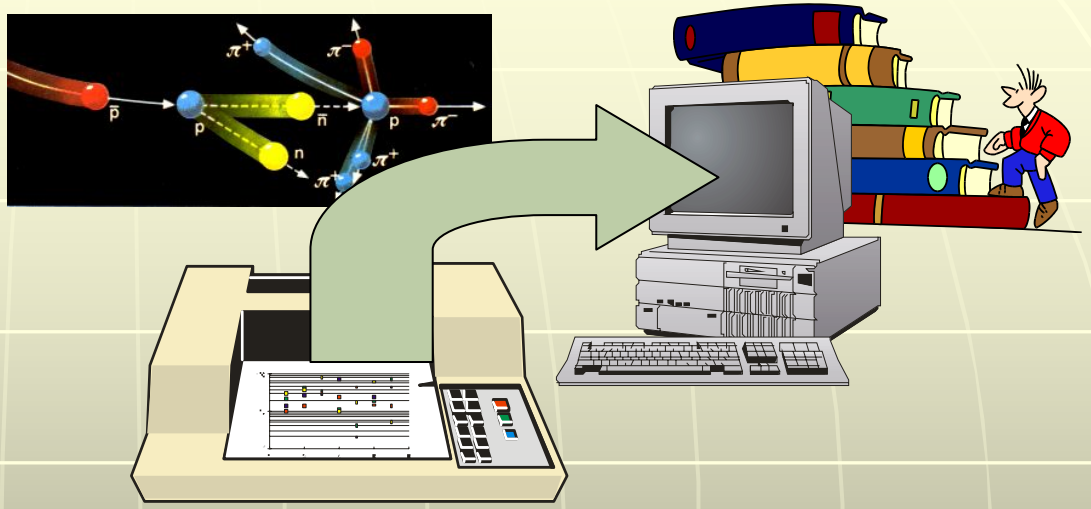


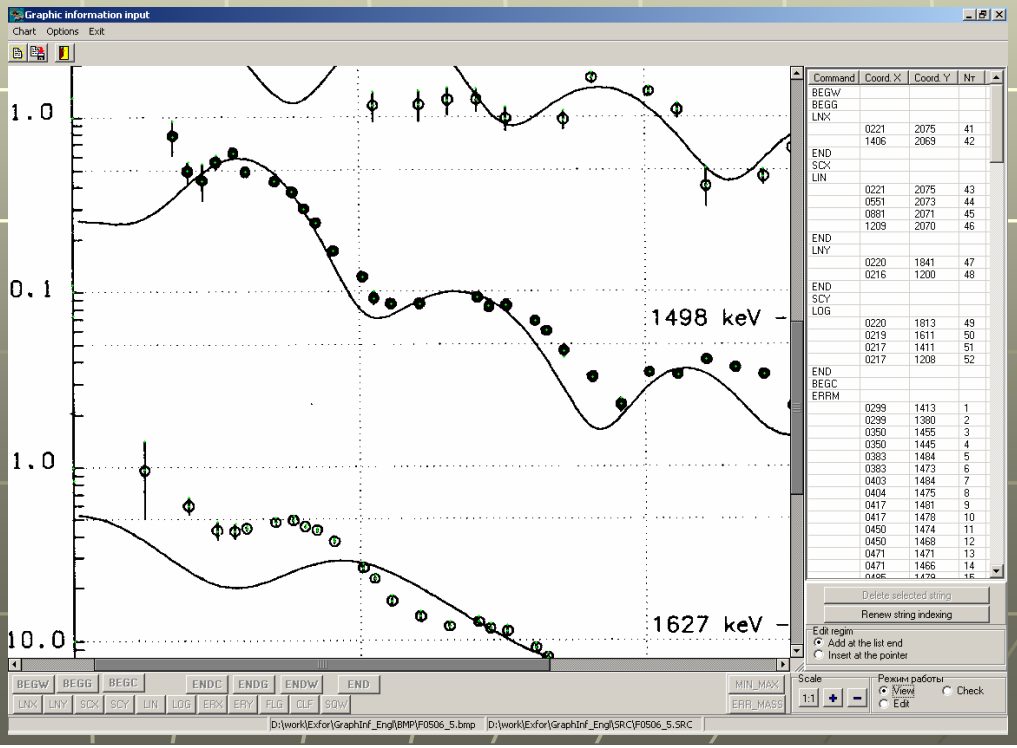


- Standard editor functions
- Window with a keyword tree
- Grid in the editor area
- Special ruler with the column numbers
- Automation search and input of the keywords and codes in the dictionaries
- Input limitation on the 67th position

DATA VALUE PREPARATION

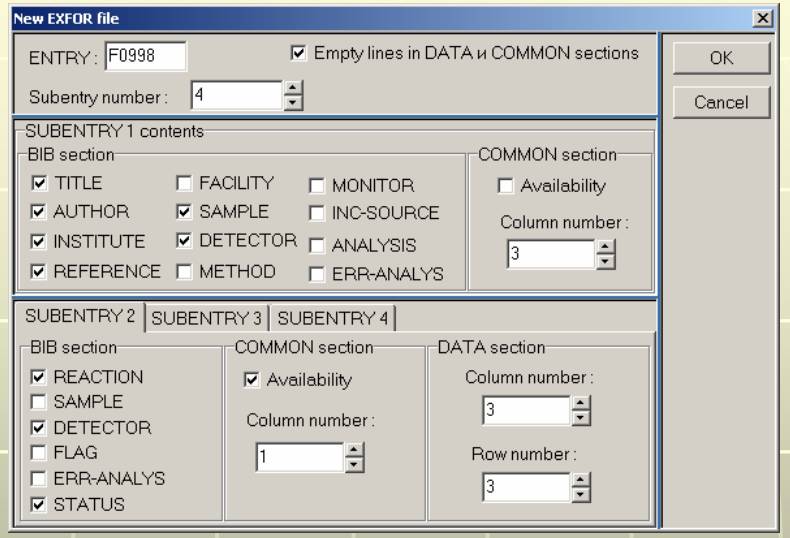
- Graphic data digitizing
- Calculation of the physics process values in the experiment coordinate scale
- Inserting the obtained digitized data into the EXFOR file



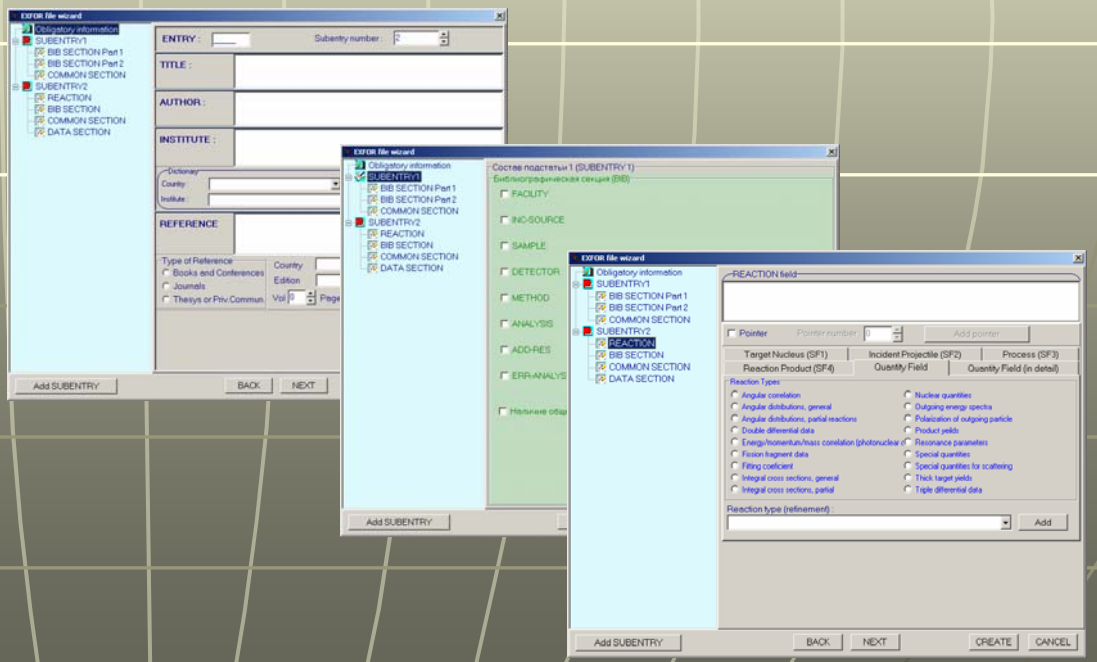


NEW FILE CREATION

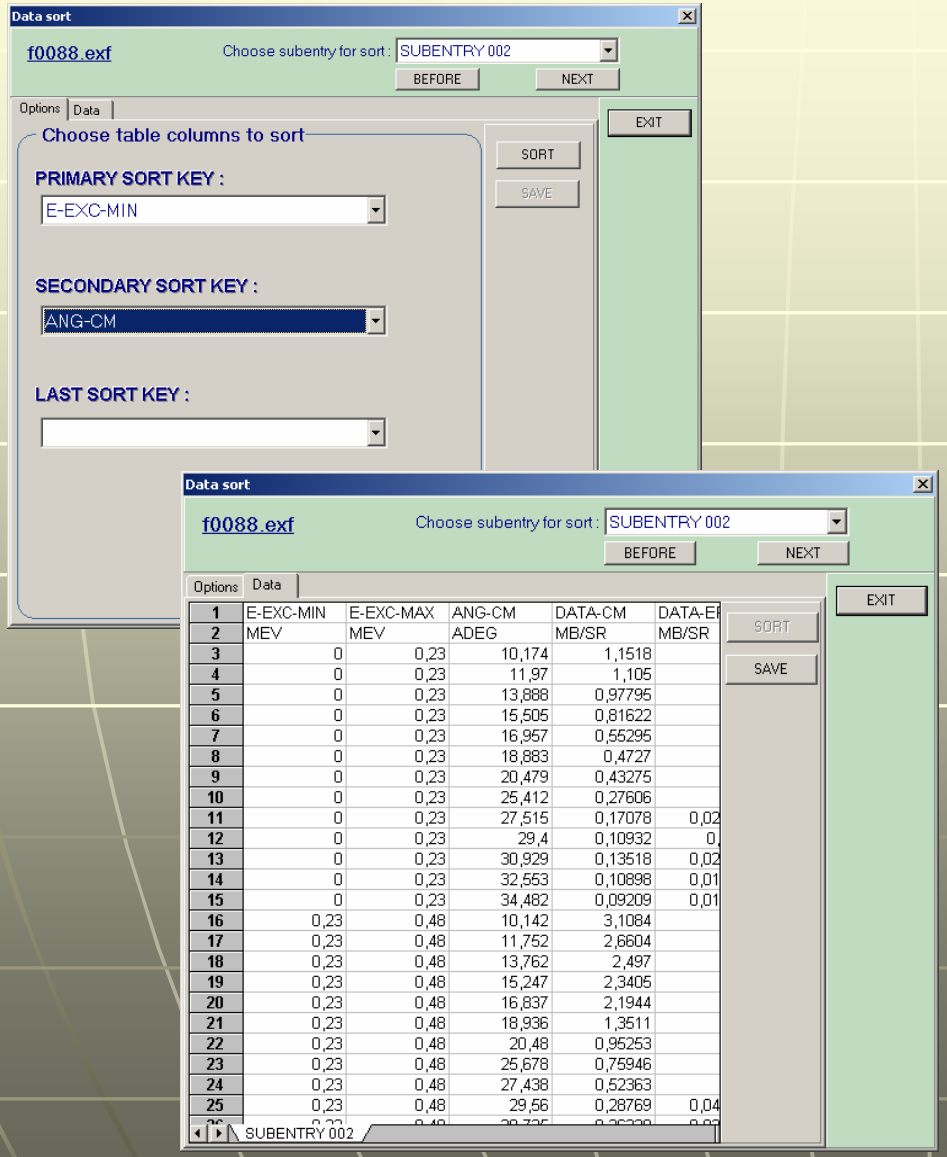
- Creation of the EXFOR new file with the help of pattern



- Creation of the EXFOR new file by means of a wizard using the EXFOR dictionaries



FILE PROCESSING

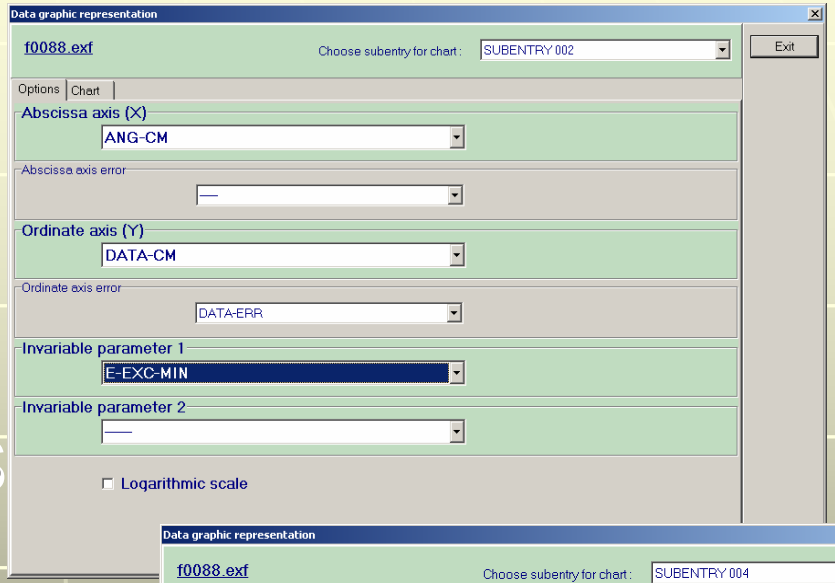


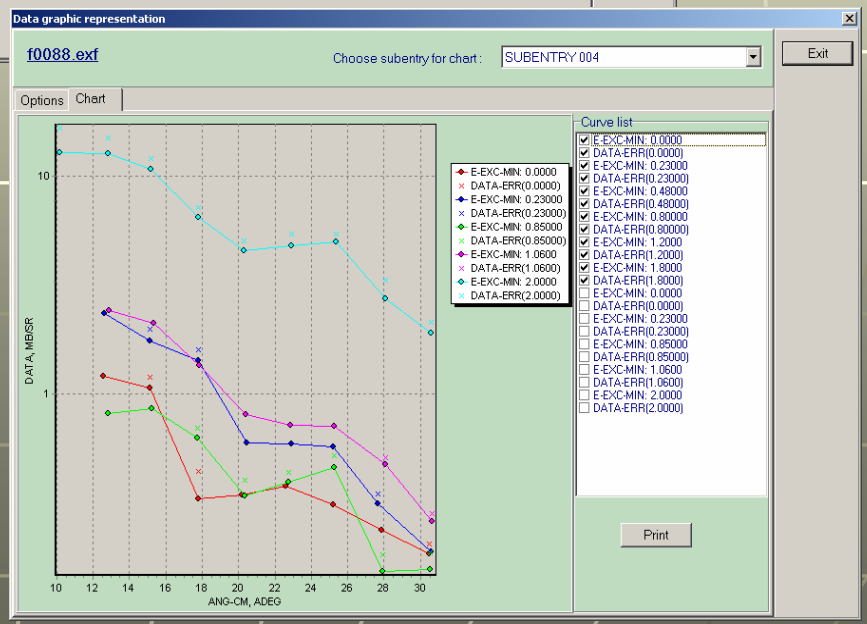
	E-EXC-MIN	E-EXC-MAX	ANG-CM	DATA-CM	DATA-E
2	MEV	MEV	ADEG	MB/SR	MB/SR
3	0	0,23	10,174	1,1518	
4	0	0,23	11,97	1,105	
5	0	0,23	13,888	0,97795	
6	0	0,23	15,505	0,81622	
7	0	0,23	16,957	0,55295	
8	0	0,23	18,883	0,4727	
9	0	0,23	20,479	0,43275	
10	0	0,23	25,412	0,27606	
11	0	0,23	27,515	0,17078	0,02
12	0	0,23	29,4	0,10932	0,
13	0	0,23	30,929	0,13518	0,02
14	0	0,23	32,553	0,10898	0,01
15	0	0,23	34,482	0,09209	0,01
16	0,23	0,48	10,142	3,1084	
17	0,23	0,48	11,752	2,6604	
18	0,23	0,48	13,762	2,497	
19	0,23	0,48	15,247	2,3405	
20	0,23	0,48	16,837	2,1944	
21	0,23	0,48	18,936	1,3511	
22	0,23	0,48	20,48	0,95253	
23	0,23	0,48	25,678	0,75946	
24	0,23	0,48	27,438	0,52363	
25	0,23	0,48	29,56	0,28769	0,04

- Sort of the entered numerical data
- Indexing the edited file records according to the rules of the EXFOR record identification

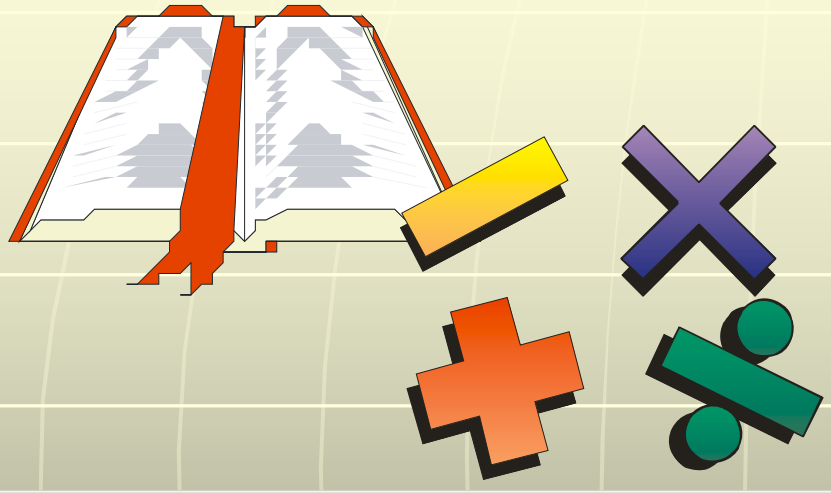
EXFOR FILE CHECKING

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

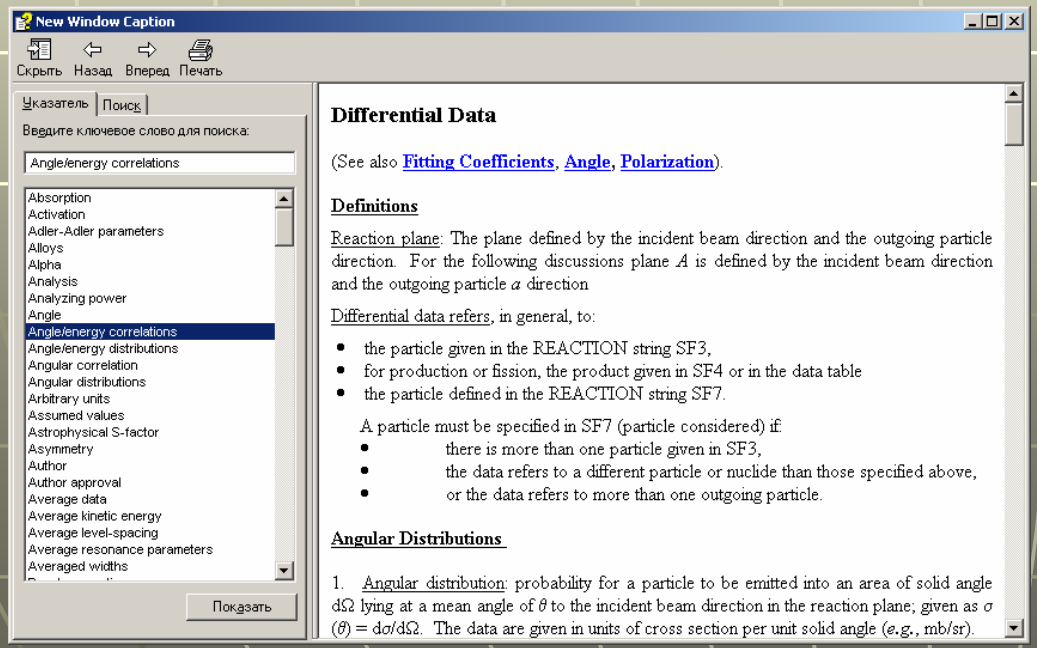




ADDITIONAL SERVICE



- Direct access to the EXFOR dictionaries
- Additional calculations
- Extended help system



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 cross-section data processing.