Integration of the X4+ Converter Code into the EXFOR-Editor

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The EXFOR+ Interpreted (Extended) EXFOR format was proposed by Victor Zerkin, IAEA-NDS, in 2006.

Basic ideas of EXFOR+ are as follow:

1. Looks like original EXFOR with some extensions given by coloured text
2. Extended part (if any) appears at the end of keyword section in separate lines starting from position 12 and symbol #
3. Right columns of original EXFOR file are eliminated (ENTRY, Subent, Line#)
4. No limit of the line size
5. Data are not broken by 6 in a line (all data of one row are in one line)
6. Data are left aligned, do not have a space in value, always have "E" where needed
7. Should be easy for adaptation of programs dealing with original EXFOR files

The use of the EXFOR+ format together with the EXFOR-Editor affords the following opportunities:

1. The EXFOR+ file could be used as additional tool for validation of EXFOR-files – interpretation of the used Code words, convenient presentation of numerical data
2. The EXFOR+ file could be sent to authors to check input information

Victor had prepared the special version of the X4+ Converter Code that was integrated into the EXFOR-Editor without any problem. It was supplied by detailed instructions and examples.

There was inserted a special button X4+ VIEWER on the tool panel of the EXFOR-editor window. It launches the conversion of the current EXFOR-file into the EXFOR+ format.

The results of conversion are presented in the active HTM-browser. The protected mode of the browser should be switched off to present EXFOR+ files in a full view. The EXFOR keywords, code words are highlighted by different colors.

We are providing the conversion of HTM-files into PDF-format to send for authors. The result HTM-files are in the X4Plus subdirectory of the EXFOR-Editor working directory. They have the same names as sources files.

So we are waiting for your proposals and feedbacks on new opportunities of X4+ conversion. We thank Victor Zerkin for fruitful cooperation.