

# FUNCTIONALITY ENHANCEMENT OF THE EXFOR-EDITOR SOFTWARE PACKAGE

*09–12 April, 2019, NRDC Meeting, IAEA, Vienna, Austria*

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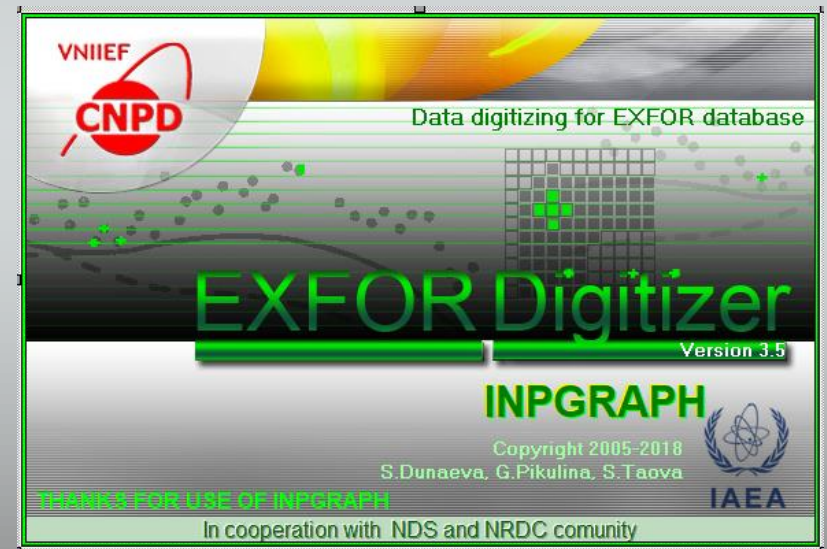
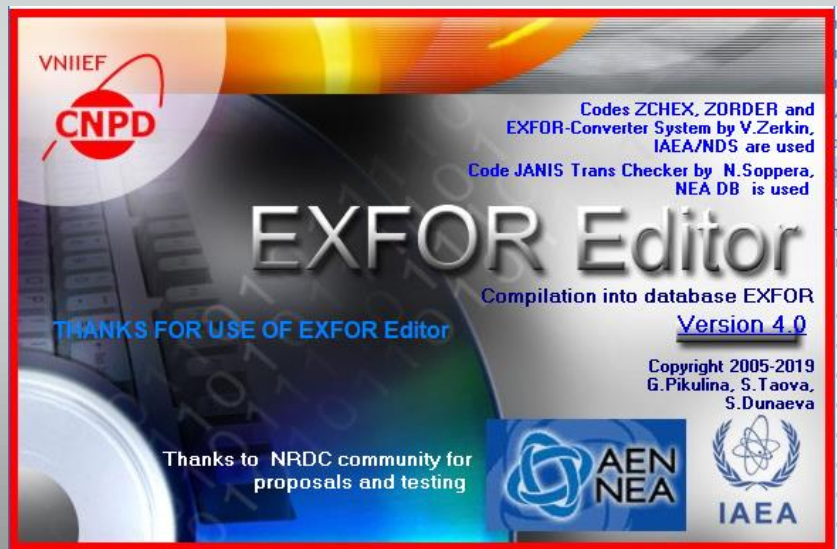
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Sarov, Russia*

A61 Pikulina (Continuing action) Continue development and testing of the EXFOR-Editor and InpGraph in cooperation with NDS and other data Centres.

CORRECTION OF BUGS



IMPLEMENTAION OF MODIFICATIONS



## PREVIOUS VERSIONS

**TRANS**

**ENTRY**

**ENTRY**

**ENTRY**

**ENTRY**

**SUBENTRY**

**SUBENTRY**

**SUBENTRY**

**SUBENTRY**

**BIB  
SECTION**

**COMMON  
SECTION**

**DATA  
SECTION**

**NEW VERSION**

Nuclear Data Compilation into EXFOR Format Version 4.0

TRANS File Edit Processing Tools Help | ENTRY Mode **TRANS Mode**

Use 67-80 Columns

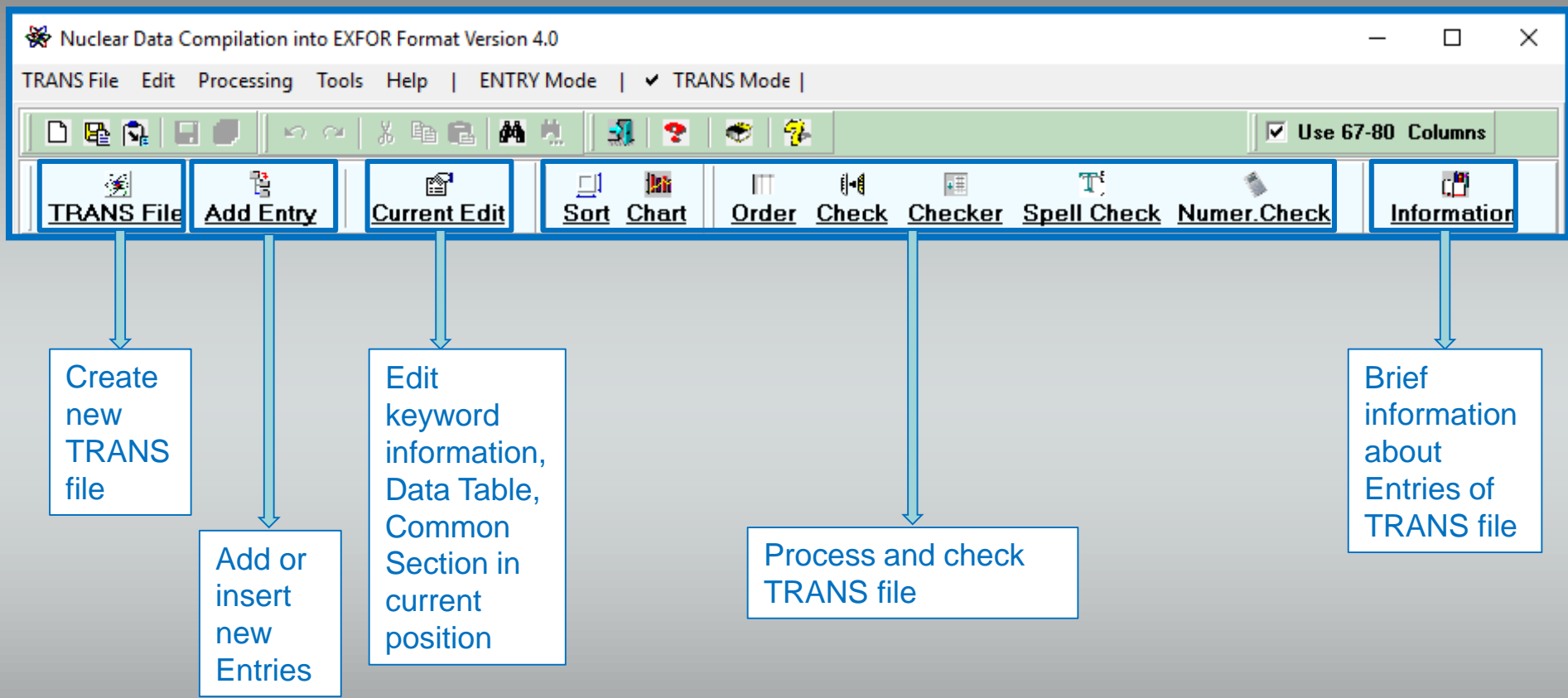
TRANS File Add Entry Current Edit Sort Chart Order Check Checker Spell Check Numer.Check Information

TRANS File Structure

- TRANS F065
  - ENTRY C F0160
  - ENDENTRY
  - ENTRY C F0565
  - ENDENTRY
  - ENTRY C F0753
  - ENDENTRY
  - ENTRY C F0837
  - ENDENTRY
  - ENTRY C F0841
    - SUBENT
      - BIB
      - ENDBIB
      - COMMON
      - ENDSUBENT
    - SUBENT
      - BIB
      - ENDBIB
      - COMMON
      - DATA
      - ENDDATA
    - ENDSUBENT
    - SUBENT
      - BIB
      - ENDBIB

C:\MyPrograms\Exfor\EXFOREditor\Trans.F065

C:\MyPrograms\Exfor\EXFOREditor\Trans.F065							
TRANS	F065	20171003				F0000	0 0
ENTRY	C	F0160	20170720			F0160	0 1
SUBENT	C	F0160001	20170720			F0160	1 1
BIB		9	34			F0160	1 2
TITLE	Elastic scattering of protons by beryllium.					F0160	1 3
AUTHOR	(F.S.Mozer)					F0160	1 4
INSTITUTE	(IUSACAL)					F0160	1 5
REFERENCE	(J,PR,104,1386,1956)					F0160	1 6
SAMPLE	Unsupported beryllium foils, 10-30 keV thick to 1-MeV protons.					F0160	1 7
						F0160	1 8
FACILITY	(VDG,IUSACAL)					F0160	1 9
MONITOR	(29-CU-0 (P,EL)29-CU-0,,SIG) Magnetic spectrometer calibration using Rutherford scattering cross section for natural copper.					F0160	1 10
						F0160	1 11
						F0160	1 12
						F0160	1 13
						F0160	1 14
						F0160	1 15
DETECTOR	(MAGSP,CSICR) Particles elastically scattered in the					F0160	1 16



Nuclear Data Compilation into EXFOR Format Version 4.0

TRANS File Edit Processing Tools Help | ENTRY Mode | TRANS Mode |

Use 67-80 Columns

TRANS File Add Entry Current Edit Sort Chart Order Check Checker Spell Check Numer.Check Information

TRANS File Status

New TRANS

TRANS Number

Selected Entries

- A0409\_m27.exf
- a0510.EXF
- f1288\_TEST.EXF
- F1257.EXF
- F1305.exf

Add Entries

Select Entries for TRANS

Папка: EXFOREditor

Имя	Дата изменения	Тип
a0510.EXF	02.03.2016 16:55	Файл
A1094_C.EXF	16.10.2017 13:18	Файл
F0000.exf	16.05.2017 17:23	Файл
F0001.exf	16.05.2017 17:28	Файл
F1111.exf	18.05.2017 14:14	Файл
F1257.EXF	21.03.2018 15:23	Файл
F1259.EXF	20.10.2016 15:10	Файл
F1271.exf	06.07.2016 14:10	Файл
F1288_2.EXF	20.10.2016 10:50	Файл
f1288_TEST.EXF	06.12.2017 13:09	Файл
F1302_a4.exf	29.12.2016 16:55	Файл
F1305.exf	11.01.2017 15:04	Файл
F1346.exf	13.06.2018 14:35	Файл
F2222.exf	17.05.2017 9:02	Файл

Имя файла: "F1271.exf" "F1302\_a4.exf" "F1346.exf" "F2222.exf"

Тип файлов: Entry Files (\*.EXF)

Открыть Отмена

TRANS File Status

TRANS Number	20171003	20170720	20170720	9	34	F0000	F0160	F0160	F0160
	0	0				0	0		
		1				0	1		
		1				1	1		
						1	2		

HISTORY



MS Mode |

Use 67-80 Columns

Order Check Checker Spell Check Numer.Check **Information**

REditor\Trans.F065

C:\MyProgram

TRANS Information

ENTRY	AUTHOR	REFERENCE	COMMENT
F0160	F.S.Mozer	J,PR,104,1386,1956	TRANS.F065
F0565	S.M.Duvanov	P,JINR-P15-96-69,1996	TRANS.F065
F0753	F.Ballester	J,NP/A,490,245,1988	TRANS.F065
F0837	Yu.E.Penionzhkevich	J,EPJ/A,31,185,2007	TRANS.F065
F0841	J.B.A.England	J,NP/A,388,573,1982	TRANS.F065
F1256	B.V.Zhuravlev	J,IZV,78,(11),1358,2014	TRANS.F065
F1268	O.V.Miklukho	J,ZEP,102,(1),15,2015	TRANS.F065
F1283	O.V.Miklukho	J,YF,80,175,2017	TRANS.F065
F1286	Yu.B.Burkatovskaya	J,FCY/L,13,(2),304,2016	TRANS.F065
F1301	A.V.Gorbunov	A,72KIEV,1,49(1),1972	TRANS.F065
F1312	E.N.Volnin	J,ZEP,19,(11),691,1974	TRANS.F065

Export to Text File

Export to Data Base

OK

## CONCLUSIONS

- The EXFOR-Editor has two modes: the Entry Mode and the TRANS Mode
- All operations of data checking are available in the TRANS Mode:
  - ✓ Ordering (the Order program)
  - ✓ Checking (the Zchex and Janis Trans Checker programs)
  - ✓ Numeric Data Checking
  - ✓ Spell checking
- All operations of data processing are available in the TRANS Mode:
  - ✓ Data sorting
  - ✓ Data plotting
- Data editing and the EXFOR Dictionaries are available in the TRANS Mode:
  - ✓ Keywords
  - ✓ Common Section
  - ✓ Data Table Mode
- Trial version of the EXFOR-Editor 4.0 is being tested





**THANK YOU**

