

Center of Nuclear Physics Data



Status report to the NRDC Meeting,
May 6-9, 2014, Smolenice

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EXFOR compilation

TRANS.F050

TRANS.F051

TRANS.F052

PRELIM.F053

PRELIM.F054

27 new entries

82 revised entries

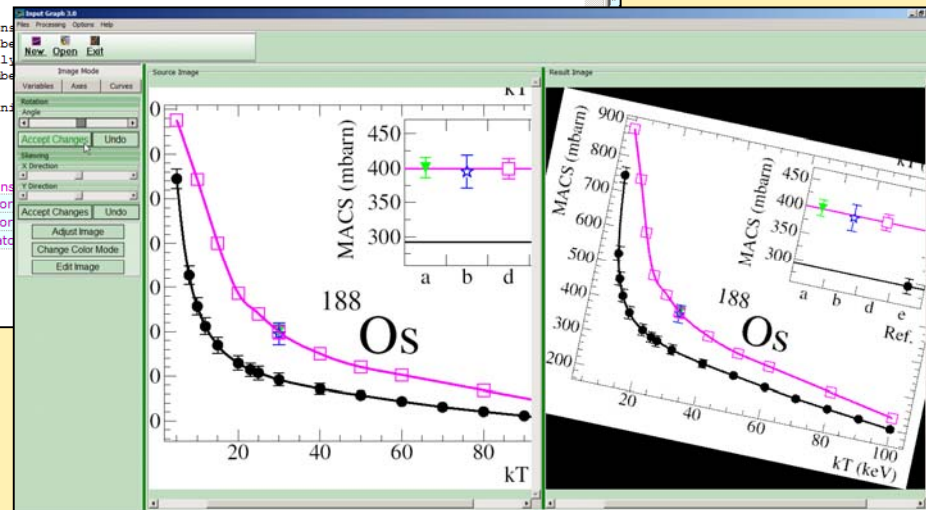


EXFOR-Editor

InpGraph (A 74)

The EXFOR-Editor interface displays a data entry form on the left and a summary view on the right. The form includes fields for ENTRY, SUBENT, BIB, TITLE, AUTHOR, INSTITUTE, REFERENCE, FACILITY, INC-SOURCE, METHOD, HISTORY, ENDBIB, COMMON, EN-ERR-DIG, ERR-DIG, ANG, KEV, ARB-UNITS, ADEG, and O.034. The summary view on the right provides a detailed overview of the entry, including the title, author, institute, reference, facility, and source. It also includes a legend for the data columns and a table of values.

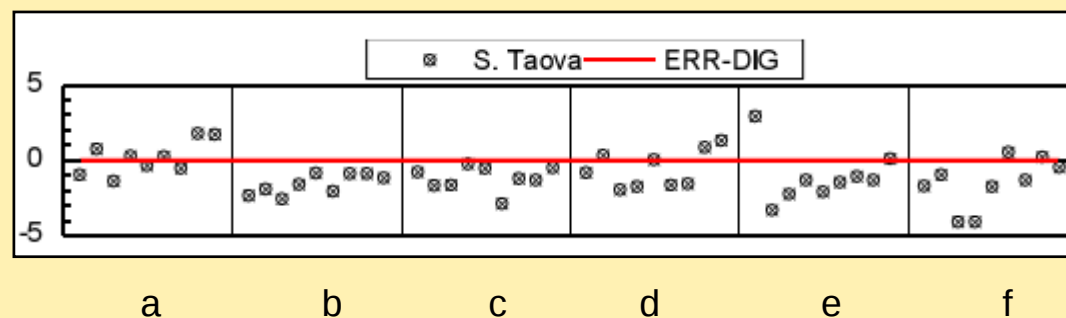
ENTRY	F0837	20140425
SUBENT	F0837001	20140425
BIB	8	19
TITLE	Excitation functions of fusion reactions and neutron transfer in the interaction of 6He with 197Au and 206Pb	
AUTHOR	(Yu.E. Penionzhkevich, R.A. Astabatyanyan, N.G.G. Gulbekian, R.Kalpachchieva, A.A. Kulik, E.R. Markaryan, V.A. Maslov, Yu.A. Muzychka, Yu. Ts. Oganessian, R.V. Revenko, N.K. Skobolev, Yu. G. Sobolev, D.A. Testov, T. Zhoidybaev)	
INSTITUTE	(42ZZDUB, 4KASKAZ), Yerevan Physics Institute, Yerevan, Armenia.	
REFERENCE	(J, EPJ/A, 31, 185, 2007)	
FACILITY	(CYCLO) Tandem including the FLNR cyclotrons U400M and U400.	
INC-SOURCE	A beam of accelerated 6He ions with a about 10MeV/A was used. The beam profile was measured with a specially design proportional diagnostic chamber situated front of the physical setup.	
METHOD	Stacked-foil activation technique.	
HISTORY	(20070419C)	
ENDBIB	19	0
COMMON	3	3
EN-ERR-DIG	ERR-DIG	ANG
KEV	ARB-UNITS	ADEG
O.034	0.0017	13.
ENDCOMMON		



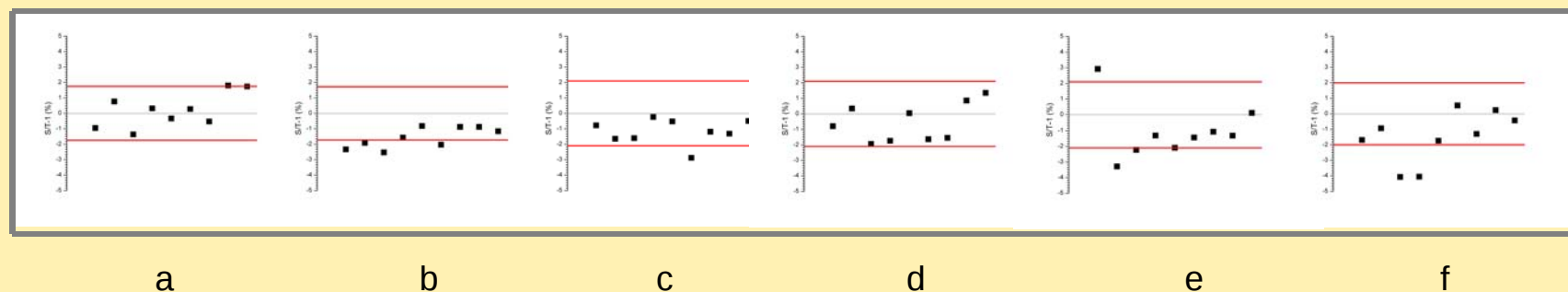
Workshop on Exfor compilation August 27-30, 2013, Vienna

InpGragh... too low digitizing error (A 73)

Results of test:



After correction (ERR-DIG * 100)



Workshop on Exfor compilation August 27-30, 2013, Vienna

S. Taova: "Approaches to estimation of error introduced to numeric data at digitization of graphic documentation"

Quantization error

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Memo CP-F010

Date: 7 April 2014
To: Distribution
From: S. Taova, G. Pikulina, S. Dunaeva, S. Abramovich
Subject: Estimation of digitizing error in program InpGraph

It is proposed to redefine digitizing error obtained in the program InpGraph.

In the previous version of InpGraph the digitizing error (δ) was defined by a value of standard deviation (D. std) of the digitized value and true value on tics.

$$\delta_x = \sqrt{\frac{\sum_{i=1}^{nx} (\bar{x}_i - x_i)^2}{n-1}}; \quad \delta_y = \sqrt{\frac{\sum_{i=1}^{ny} (\bar{y}_i - y_i)^2}{n-1}},$$

where x_i – value for the i -th tics of x axis ($1 \leq i \leq nx$) received from the digitization tool;

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G. Pikulina: “Validation of a Format of Data Input to the EXFOR Data Library by EXFOR-Editor”

- control of numerical data input
- verification of numerical data
- common checking procedures of EXFOR data format input