

**Nuclear Data Section
International Atomic Energy Agency
P.O.Box 100, A-1400 Vienna, Austria**

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To: Distribution
From: N.Otsuka

Subject: Addition to Dictionary 23 (Analysis Codes) - SURGT

“Surrogate reaction method” is an indirect technique to obtain reaction data for reactions which direct measurement is not easy. Recently we have seen such data in EXFOR compilation (e.g. entry 31649 in PRELIM.3130, entry 14183 in preparation).

These data are not derived from the experimental data by the most direct method, and DERIV should be coded in SF9 (See LEXFOR – Data Type). In order to explain the derivation method, I would propose a new code for the surrogate reaction method.

Dictionary 23 (Analysis codes)

SURGT Surrogate reaction method

“Asymptotic normalization constant method” and “Trojan-horse method” are also indirect techniques in astronuclear physics. Their code **ANG** and **TROJA** are defined in dictionary 21. I would propose to move these codes to dictionary 23 because these are derivation methods rather than experimental methods.

Distribution:

a.mengoni@iaea.org
a.nichols@iaea.org
blokhin@ippe.ru
chiba@earth.sgu.ac.jp
claes.nordborg@oecd.org
ganesan@barc.gov.in
gezg@ciae.ac.cn
hasegawa@nea.fr
henriksson@near.fr
hongwei@ciae.ac.cn
jhchang@kaeri.re.kr
kaltchenko@kinr.kiev.ua
katakura.junichi@jaea.go.jp
kato@nucl.sci.hokudai.ac.jp
kirarlyb@atomki.hu
l.vrapcenjak@iaea.org
manokhin@ippe.ru
mmarina@ippe.ru
mwherman@bnl.gov

nklimova@kinr.kiev.ua
n.otsuka@iaea.org
nrdc@jcprg.org
oblozinsky@bnl.gov
ogritzay@kinr.kiev.ua
otto.schwerer@aon.at
samaev@obninsk.ru
s.babykina@polyn.kiae.su
s.dunaeva@iaea.org
stakacs@atomki.hu
stanislav.hlavac@savba.sk
taova@exped.vniief.ru
tarkanyi@atomki.hu
varlamov@depni.sinp.msu.ru
vlasov@kinr.kiev.ua
vmclane@optonline.net
v.zerkin@iaea.org
yolee@kaeri.re.kr

