19 Apr 2001

To: Distribution
From: , S.Babykina, F.E. Chukreev
Subject: Energy of isobaric analog states
       (Action A43 of the 2000 NRDC Meeting)

Very much investigations of (p,n) reactions have contained measurements for isobaric-analog states (IAS). As a rule, the authors of such researches do not indicated energy IAS. Absence anything information embarrass understanding of experimental results by user. Sometimes the compiler, if publication contains needed additional information, can to calculate energy of IAS. For example, in J, PR/C, 13, 548, 1976=O0806 the energy IAS was calculated from a neutron spectrum.

However our community has reliable systematic of analog state energies.(See: J.D.ANDERSON +, J, PR, 138, p.B615, 1965 for (p, n) reaction) I.Бобошин et.al investigated applicability of the systematic for more easy nucleuses, $3 < A < 61$, when isospin is increased on 1. (See: Inter.conf.on Nucl., 14-17 June, 2000, St.Peterb., Russia, p.287). The authors proposed some modification of Anderson's formulae too.

The file, which contains IAS energies , can be found on a site CDFE MSU (see **depni.npi.msu.su**).

Therefore a compiler has possibility to include IAS energy in compiled data and we suggest in similar works to input under E-LVL calculated from systematic value of IAS-energy with the appropriate comment of the compiler.

A LEXFOR page is applied

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