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Tarik Siddik Reshid <tarik.reshid@su.edu.krd>

Invitation to review for Applied Radiation and Isotopes

1 message

Applied Radiation and Isotopes <em@editorialmanager.com> Thu, Sep 1, 2022 at 6:15 PM
Reply-To: Applied Radiation and Isotopes <support@elsevier.com>
To: Tarik Siddik <tarik.reshid@su.edu.krd>

Manuscript Number: ARI-D-22-00570

A new empirical systematic for (n, 2p) cross sections around 14 MeV

mustafa yiğit

Dear Dr Siddik,

I would like to invite you to review the above referenced manuscript submitted by Dr mustafa yiğit , as I believe it falls within your expertise and interest. The abstract for this manuscript is included below.

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Kind regards,

Ferenc Szelecsenyi

Receiving Editor

Applied Radiation and Isotopes

Abstract:

In this paper, we proposed a new empirical systematic with which we can predict the (n, 2p) cross sections as an extension of the empirical rule on the basis of the statistical theory of nuclear reactions. It is obtained by fitting the experimental cross sections as a function of mass number, reaction –value, threshold energy and projectile energy. A new analysis of experimental data is performed for (n, 2p) reactions around 14 MeV energy. Besides, the present formula was expressed by a simple systematic with two fitting parameters. The predictions of this formula were discussed and compared with cross section measurements and empirical formulas found in the literature. Results show that the new empirical formula gives a good fit to predict the (n, 2p) cross sections around 14 MeV.

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