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Invitation to review for Applied Radiation and Isotopes

1 message

Applied Radiation and Isotopes <em@editorialmanager.com> Tue, Nov 8, 2022 at 4:44 PM
Reply-To: Applied Radiation and Isotopes <support@elsevier.com>
To: Tarik Siddik <tarik.reshid@su.edu.krd>

ELSEVIER

Manuscript Number: ARI-D-22-00830

Simple parametrization of (n,d) cross sections using Flerov and Talyzin's formula

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:

This article aims at providing new cross section data from empirical formulas for the (n,d) reactions of which experimental measurements at 14-15 MeV energy are not available or limited. If the experimental data for a nuclear reaction at a given energy are scarce, theoretical calculations and also developing empirical formulas have a critical importance. Here, we propose a new empirical formula of (n,d) reactions for analysis of the relationship between the experimental data and the parameters of empirical formula. The present formula was obtained by using the non-elastic Flerov and Talyzin expression to calculate (n,d) cross sections at 14-15 MeV. Due to the good overall agreement with the measured cross sections, our empirical formula with polynomial fitting model including asymmetry parameter can be useful in planning new experiments of (n,d) reactions for energies around 14 MeV.

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